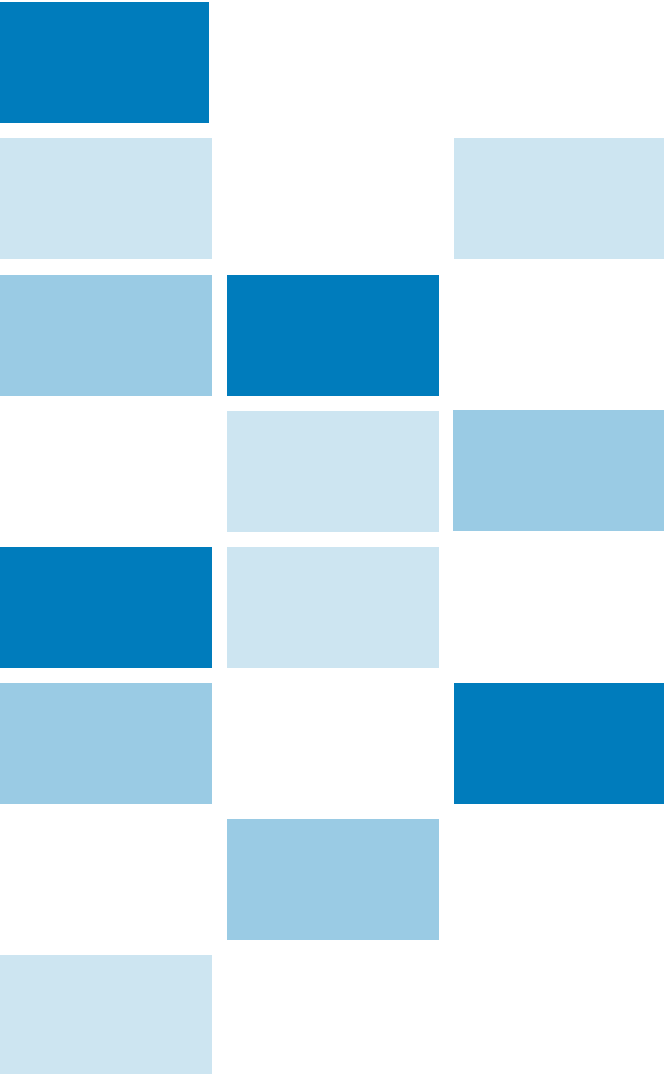




KONICA MINOLTA

COUNT ON KONICA MINOLTA



# **bizhub C3110**

## Service Launch Guide

# Konica Minolta bizhub C3110

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# Konica Minolta bizhub C3110

## Specification & Installation Guide



KONICA MINOLTA

06/09/2014

### bizhub C3110 Specifications

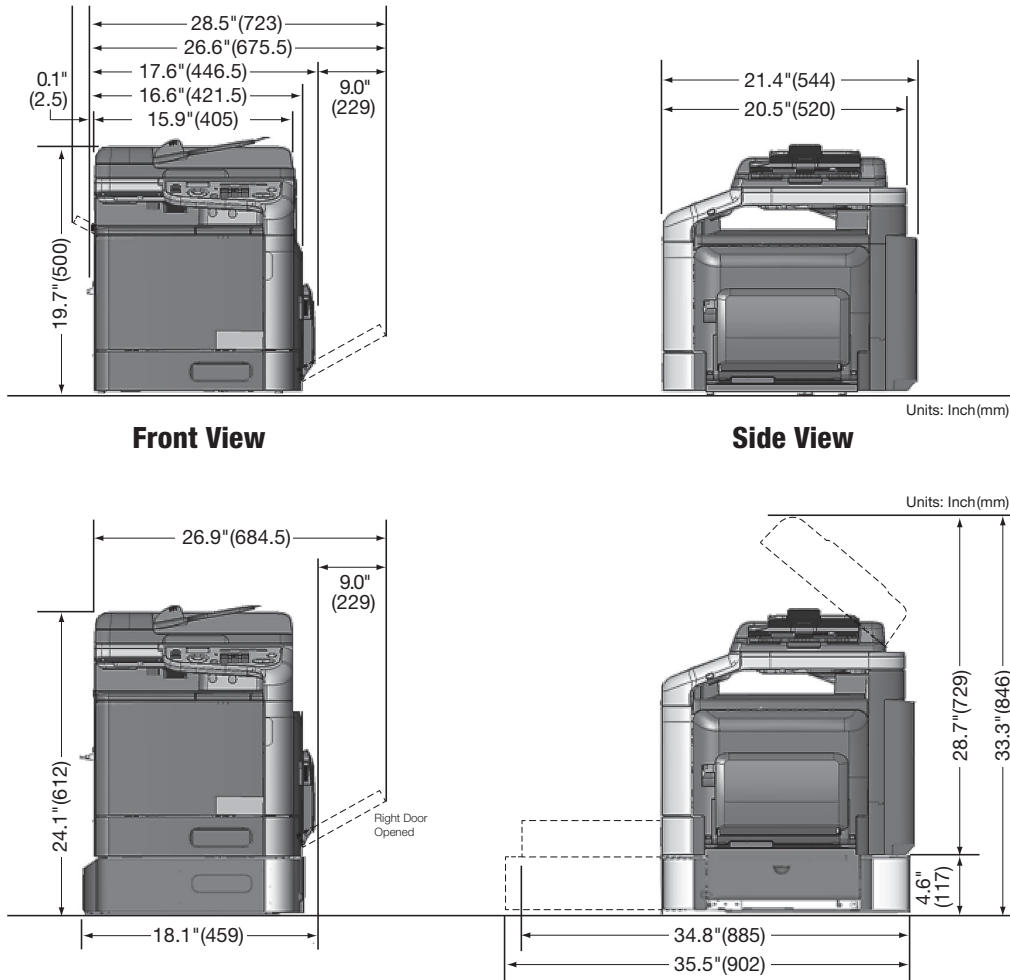
Type	Full Color Printer/Copier/Scanner															
Document Holder	Stationary (mirror scanning) <b>Types:</b> Sheets, books (page spreads), 3-dimensional objects <b>Size:</b> Maximum 8.5" x 14"															
Photoconductor	Organic Photoconductor															
Luminous Source	LED															
Copying System	Laser electrostatic copy method															
Developing System	Dual-component															
Fusing System	Belt fusing system															
Resolution	Scanning: Up to 600 x 600 dpi Copying/Printing: 600 x 600 dpi, 1200 x 1200 dpi															
Paper	Plain Paper (60-90 gsm) Thick Paper* (90-210 gsm) postcards*, letterhead*, colored paper, glossy stock*, envelopes**, label sheets*, recycled paper <small>*Via Multipurpose and Standard Tray only. **Via Multipurpose Tray only.</small>															
Paper Sizes	<b>Multipurpose Tray:</b> 4"(W) x 6"(L) to 8.5"(W) x 14"(L) <b>Standard Tray:</b> 4"(W) x 6"(L) to 8.5"(W) x 11"(L) <b>Lower Feeder:</b> 8.5"(W) x 11"(L) to 8.5"(W) x 14"(L)															
Paper Tray Capacity	<b>Multipurpose Tray:</b> 100 sheets <b>Standard Tray:</b> 250 sheets <b>Lower Feeder:</b> 500 sheets															
Exit Tray Capacity	Plain Paper: 150 sheets Special Paper: 10 sheets															
Warm-up Time	36 seconds or less at room temperature (73° F)															
Image Loss Width	<table border="1"> <thead> <tr> <th>Position</th> <th>Copy</th> <th>Print</th> </tr> </thead> <tbody> <tr> <td>Leading edge:</td> <td>0.157"</td> <td>0.165"</td> </tr> <tr> <td>Trailing edge:</td> <td>0.157"</td> <td>0.165"</td> </tr> <tr> <td>Rear edge:</td> <td>0.157"</td> <td>0.165"</td> </tr> <tr> <td>Front edge:</td> <td>0.157"</td> <td>0.165"</td> </tr> </tbody> </table>	Position	Copy	Print	Leading edge:	0.157"	0.165"	Trailing edge:	0.157"	0.165"	Rear edge:	0.157"	0.165"	Front edge:	0.157"	0.165"
Position	Copy	Print														
Leading edge:	0.157"	0.165"														
Trailing edge:	0.157"	0.165"														
Rear edge:	0.157"	0.165"														
Front edge:	0.157"	0.165"														
First Copy	Full Color: 17 seconds or less Black: 13 seconds or less															
First Print	Full Color: 12.9 seconds Black: 12.9 seconds															

Print/Copy Speed:	Full Color: Plain paper/letter: 32 ppm single-sided Thick paper/letter: 16 ppm single-sided B/W: Plain paper/letter: 32 ppm single-sided Thick paper/letter: 16 ppm single-sided
Magnification Ratios	Platen: Reduce/Enlarge: 25%–400% (1% increments) RADF: Reduce/Enlarge: 25%–200% (1% increments)
Multiple Copies	1 to 99
Density Control	Copy Density: Manual Density Adjustment (7 steps)
Power Requirements	120V/60 Hz
Power Consumption	990 W or less (max.)
Dimensions	17.6" (W) x 21.4" (D) x 19.7" (H)
Memory	1 GB RAM (2 GB Max.)
Hard Disk Space	Optional 320 GB HDD
Weight Approx.	Approx. 75.6 lbs. (base unit with consumables)

### Duty Cycle

Up to 120,000 monthly. The maximum monthly duty cycle describes the maximum number of pages a device can output on a monthly basis. This specification is a guideline intended to offer a comparison of durability as it relates to the entire Konica Minolta MFP and printer product line so that the appropriate device can be placed in order to meet customer needs.

### Space Requirements



### Environmental Requirements

Temperature	50°F to 86°F (operating)	
Humidity	15% to 85% (operating)	
Engine Noise	Printing:	54 db
	Standby:	39 db
Ozone Emission	Monochrome:	1.5 mg/h or less
	Color:	3.0 mg/h or less

### Electrical Requirements

Line options	Dedicated	NEMA Diagram for 5-15P
Voltage	120V/60 Hz	
Amperage	9.0 A or less	
NEMA Part No.	5-15P	
Cord Length	6 ft.	



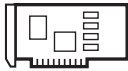
### Component Considerations

#### HD-P06 Hard Disk Drive\*



Type	Internal Hard Drive
Capacity	320 GB
Functions	Adds additional memory, security, and convenience functions. Required for printing from USB.

#### FK-512 Fax Kit



Communication	Super G3
Compatible Lines	PSTN, PBX
Modem Speed	2.4 – 33.6 kbps
Compression	MH/MR/MMR/JBIG
Transmit Paper Size	Max. 11" x 14"
Receive Paper Size	Max. 11" x 14"
Transmission Speed	Less than 3 sec. (V.34, 33.6 Kbps, JBIG)
Scan Speed	Up to 31 opm
Transmission Size	Flatbed: 8.5" (W) x 14" (L) ADF: 8.5" (W) x 39" (L)
Receiving Size	Max: 8.5" (W) x 14" (L)
Fax destinations	2,100 (2,000 single + 100 group)
i-Fax	Yes
PC-Fax	Yes
Functions	Program, Select from Address Book, Group Dial Program, Auto Redial, Original Type (Text, Text/Photo, Photo), Density, Memory TX, Busy / Error Redial, Broadcast TX, Timer TX, Confidential TX, Relay TX Request, Polling RX, TX Original Size Setting, Mixed Original TX, Ecm Off, V34 Off TX, Password TX, Memory RX, Memory Vicarious Execution RX, Password RX, Call Rejection, Confidential Print, Auto Reduction Print, Full Size Print, Tel/Fax Auto Switch, Audio Response, Answering Machine Connection, Number Display, Dial-in, Vicarious Execution Forward, Remote RX, Nighttime Receiving User Box Destination Setting, Activity Report, TX Result Report, Broadcast Result TX Report, Broadcast Result RX Report, Various Lists, Long Paper Original TX/RX, PC-Fax TX/RX, Mistake TX Prevention

#### MK-P04 Fax Mount Kit



Type	Fax mount kit
Function	Required for installation of FK-512

\* Can only be purchased from Konica Minolta.

### Component Considerations

#### PF-P14 Lower Feeder Unit



Type	1 x 500 sheet drawer
Support Paper Weight	16–24 lb bond
Support Paper Size	8.5" x 11" to 8.5" x 14"
Paper Capacity	500 Sheets
Power Requirements	Supplied from main body

#### SCD-25 Copy Desk



Type	Storage drawer only
Function	Storage of accessories, paper, supplies, etc. Brings machine to working height.

#### 1 GB Expanded Memory Unit\*



Type	DIMM
Capacity	1 GB
Functions	Increases the printable file size.

#### SX-4600WAN Wireless Network Adapter



Type	Miscellaneous Option
Functions	Provides wireless connectivity.

#### AU-201H Proximity Card Authentication Unit\*\*



Dimensions (WxHxD)	3.625" x 2.5" x 0.625"
Weight	0.25 lb.
Power Supply	Supplied from USB Port
System Conditions (operating mode)	Ambient Temperature: 32° to 104° F Humidity: 20% to 85%
System Conditions (non-operating mode)	Ambient Temperature: -4° to 122° F Humidity: 20% to 85%
Radio Law Division	Self-Guided Read-Write Communication Facility
Applicable Card	ISO 14443 Type A, FeliCa-based non-contact IC Card
Acquired Standard	VCCI Class B

\* Can only be purchased from Konica Minolta.  
\*\* Requires optional Hard Disk Drive HD-P06.

### Component Considerations

#### AU-202H HID iClass Card Reader\*\*



Dimensions (WxHxD)	4.0" x 1.9" x 0.9"
Weight	0.25 lb.
Power Supply	Supplied from USB Port
System Conditions (operating mode)	Ambient Temperature: 31° to 150° F Humidity: 5% to 95%
Transmit Frequency	13.56 MHz
Environmental	IP55
Certifications	UL294/cUL (US), FCC Certification (US), IC (Canada), RoHS
Card Type Compatibility	All HID 2k, 16k or 32k iClass Cards
HID iClass Card Format Compatibility	26-bit, HID Corporate 1000®

#### LK-106 i-Option License Kit\*\*

Type	License key
Function	Supports Barcode Font Printing

#### LK-107 i-Option License Kit\*\*

Type	License key
Function	Supports Unicode Font Printing

#### LK-108 i-Option License Kit\*\*

Type	License key
Function	Supports OCR Font Printing

#### LK-111 i-Option License Kit

Type	License Key
Function	Provides ThinPrint® client support

#### CS-1 Convenience Stapler



Type	Standalone electronic stapler
Stapling Capacity	Up to 50 sheets
Paper Weight	Up to 90 gsm
Durability Cycle	Up to 200,000 stapling operations
Staple Position	Side or corner of document
Type of Clinch	Flat clinch
Dimensions (WxHxD)	5.31" x 5.7" x 7.48"
Weight	Approx. 3.74 lb.
Power Supply	AC adaptor (supplied). Separate power output required.
Refill Staples	SK-602 (No. 505: 5,000 staples)

\*\* Requires optional Hard Disk Drive HD-P06.

# Konica Minolta bizhub C3110

## Specification & Installation Guide



### Mixed Original Support

● Possible × Not Possible

Document Size <sup>2</sup>	Maximum Document Width <sup>1</sup>					
	11" x 17" landscape	8.5" x 11" portrait	8.5" x 14" landscape	8.5" x 11" landscape	5.5" x 8.5" portrait	5.5" x 8.5" landscape
8.5" x 14" (☐)	×	×	●	●	×	×
8.5" x 11" (☐)	×	×	●	●	×	×

<sup>1</sup> Indicates the width of the widest document size of the mixed originals.

<sup>2</sup> Indicates the document sizes that can be mixed together based on the maximum document width.

### Standard Paper Tray Support

**Main Unit – bizhub C3110** (Standard Tray and Multipurpose)

Component	Capacity	Size	Weight
Multipurpose	100 sheets	4" x 6" to 8.5" x 14"	Up to 110 lb. index
Standard Tray	250 sheets	4" x 6" to 8.5" x 11"	Up to 110 lb. index

### Print Controller (Standard)

Type	Emperon Print System
CPU	MV78230 (1.066 GHz)
Memory	1 GB (2 GB max.)
Print Speed	Color: 32 ppm Letter Portrait B&W: 32 ppm Letter Portrait
Print Resolution	600 x 600 dpi 1200 x 1200 dpi
PDL	PostScript 3, PCL 6, XPS
Ethernet Protocol	TCP/IP, IPP over SSL, IPv6, DPWS (WSD), IPsec (IPv6), NTP, SSL/TLS, Dynamic DNS, LLTD, IEEE 802.1x, DHCPv6, HTTP, HTTPS, IPP 1.1, SNMP, FTP, DHCP, Boot P, SLP, SMB
Supported OS	Windows XP x32/x64 (SP2), Windows Vista x32/x64, Windows 7 x32/x64, Windows 8 x32/x64, Windows Server 2003 x32/x64, Windows Server 2008 x32/x64; Macintosh OS X (10.2.8 or later), SuSE Linux Enterprise Desktop 10, Red Hat Enterprise Linux 5 Desktop
Font	PCL Resident Fonts: 80 outline PS3 Emulation Resident Fonts: 137
Interface	Gigabit Ethernet (10/100/1000BaseTX); USB 2.0; USB 1.1

### Print Drivers

Page Description Language	Printer Driver	Supported Operating Systems
PCL 6 Emulation	Konica Minolta	Windows 7 x64/Windows 7, Windows 8, Windows Vista x64/Windows Vista/Server 2003 x64/Server 2003/XP x64/XP (SP2+)/2000 (SP4+)
PostScript 3 Emulation	Konica Minolta	Windows 7 x64/ Windows 7, Windows 8, Windows Vista x64/Windows Vista/Server 2003 x64/Server 2003/XP x64/XP (SP2+)/2000 (SP4+)
PPD	Konica Minolta	Macintosh OS X 10.2.8 or later
XPS v1.0*	Konica Minolta	Windows Vista x64/Vista, Windows 7 x64/Windows 7, Windows 8



# Konica Minolta bizhub C3110

## Specification & Installation Guide



### Print Specifications

Item	Specifications
Model	Built-in print system
Power Supply	Common with the main body
CPU	MV78230 (1.066 GHz)
RAM	1 GB (2 GB max.)
Hard Disk	320 GB (Optional)
Interface	Standard Ethernet 10/100/1000 Base TX, Standard USB 2.0, USB 1.1
Ethernet Protocol	TCP/IP, IPP over SSL, IPv6, DPWS (WSD), IPsec (IPv6), NTP, SSL/TLS, Dynamic DNS, LLTD, IEEE 802.1x, DHCPv6, HTTP, HTTPS, IPP 1.1, SNMP, FTP, DHCP, Boot P, SLP, SMB
Print Speed	Color: 32 pages/minute B&W: 32 pages/minute
First Print Time	Color: 12.9 seconds or less B&W: 12.9 seconds or less
Operating Environment Conditions	50° to 86° F, 15-85% RH
Resolution	600 x 600 dpi 1200 x 1200 dpi
Supported Paper Sizes	4" x 6" to 8.5" x 14"
Printer Fonts	PCL Resident Fonts: 80 outline PS3 Emulation Resident Fonts: 137
Compatible Computers	IBM PC or compatible and Macintosh
Supported OS	Windows XP x32/x64 (SP2), Windows Vista x32/x64, Windows 7 x32/x64, Windows 8 x32/x64, Windows Server 2003 x32/x64, Windows Server 2008 x32/x64; Macintosh OS X 10.2.8 or later, SuSE Linux Enterprise Desktop 10, Red Hat Enterprise Linux 5 Desktop

### Scanning Function (Standard)

Type	Full-Color Scanner
Scanning Size	Up to 8.5" x 14"
Scanning Resolution	600 x 600 dpi, 300 x 300 dpi, 200 x 200 dpi, 150 x 150 dpi
Scanning Speed	300 dpi: Up to 31 ppm <sup>1</sup>
Main Function	Scan-to-Email, Scan-to-SMB, Scan-to-FTP, Scan-to-USB, Scan-to-HDD, Scan-to-WebDAV, TWAIN, WIA
Interface	Gigabit Ethernet (10/100/1000 Base-TX), USB 1.1
Protocol	TCP/IP (FTP, SMB, SMTP, WebDAV)
Support OS	Windows XP, Vista, Windows 7, Windows 8, Server 2003, Server 2008, Server 2012, Mac OS X (10.3 or later)
Output Format	PDF, JPEG <sup>2</sup> , TIFF, XPS, Compact PDF, PDF/A
Driver	Network TWAIN, WIA (1.0/2.0) Driver (Windows only)
Address Setting	LDAP

<sup>1</sup> Scan speed varies by resolution and amount of data being scanned.

<sup>2</sup> Single page at a time.

### PageScope Software

#### Network, Device Management and User Tools

PageScope Direct Print\*  
PageScope Data Administrator  
Download Manager\*  
Print Status Notifier  
Driver Packaging utility  
PageScope Mobile  
PageScope Net Care Device Manager  
PageScope Web Connection  
PageScope Enterprise Suite Plug-in  
PageScope Account Manager\*  
PageScope Authentication Manager\*  
PageScope My Print Manager\*

### Paper Considerations

#### Paper Size Conversion Chart

Paper	Letter	Legal	Statement	Custom
Measurement	8.5" x 11"	8.5" x 14"	5.5" x 8.5"	3.6"(W) x 5.8"(H) to 8.5"(W) x 14"(H)

#### Paper Weight Conversion Chart

gsm	Bond	Offset	Cover	Tag	Index	Point	Bristol	Caliper	
								inches	mm
60.20	16	40	22	37	33	3.2	27.4	0.0032	0.081
67.72	18	45	24	41	37	3.6	30.9	0.0036	0.092
75.20	20	50	28	46	42	3.8	34.3	0.0038	0.097
90.30	24	60	33	56	50	4.8	41.2	0.0048	0.120
105.35	28	70	39	64	58	5.8	48.1	0.0058	0.147
109.11	29	73	40	62	60	6.0	49.8	0.0060	0.152
116.63	31	81	45	73	66	6.1	53.2	0.0061	0.155
131.68	35	90	48	80	74	6.2	60.1	0.0062	0.157
135.45	36	90	50	82	75	6.8	61.8	0.0068	0.173
146.73	39	100	54	90	81	7.2	67.0	0.0072	0.183
150.50	40	100	56	93	83	7.3	68.7	0.0073	0.185
161.78	43	110	60	100	90	7.4	73.8	0.0074	0.188
165.55	44	110	61	02	92	7.6	75.5	0.0076	0.193
176.83	47	120	65	108	97	8.0	80.7	0.0078	0.198
199.41	53	135	74	122	110	9.0	91.0	0.0085	0.216

### Paper Type Specifications

#### Normal (Plain Paper)

Normal paper is for general use and is called "PPC paper." The normal paper is usually not a recycled paper. Specify [Normal] to the tray to which the normal paper or the recycled paper is loaded.

#### Thick Paper 1

Thick Paper 1 is paper weighing between 24.25 to 40 lb. bond. It can be fed via the bypass tray<sup>1</sup> or main tray<sup>2</sup>.

#### Thick Paper 2

Thick Paper 2 is paper weighing between 40 to 55.5 lb. bond. It can be fed via the bypass tray<sup>1</sup> or main tray<sup>2</sup>.

#### Envelopes

Envelopes can be fed through the bypass tray<sup>1</sup>.

1. Up to 10 sheets.  
2. Up to 20 sheets.

### How to Build a bizhub C3110 System (from start to finish)

#### Step 1: Base Unit

- C3110 Digital Color Printer/Copier/Scanner  
*(Includes PS & PCL Controller, Automatic Duplex Unit, Reversing Automatic Document Feeder, 1 GB Standard Memory, Standard USB 2.0 (supports local printing), Toner and CMYK Imaging Units, One-year Warranty)*

#### Step 2: Paper Handling Options

- Lower Feeder Unit (500 sheets)
- Automatic Duplex Unit (Standard)

#### Step 3: Image Controller

- Emperon Print System (PCL/PS) (Standard)

#### Step 4: Storage and Memory Options

- 320 GB HDD
- 1 GB Additional Memory

#### Step 5: Analog Fax Options

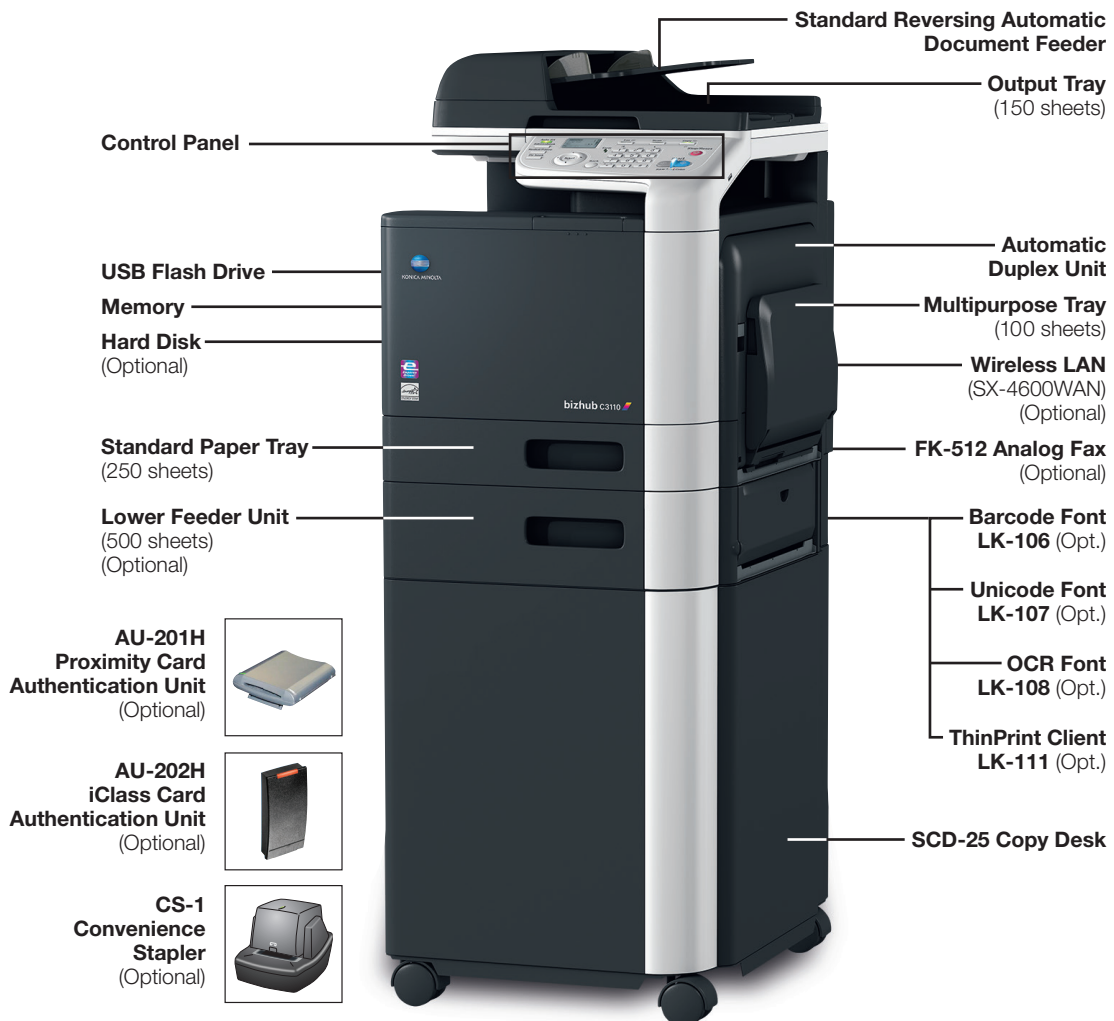
- FK-512 Fax Kit (Requires MK-P04)
- MK-P04 Mount Kit for FK-512

#### Step 6: Finishing Option

- CS-1 Convenience Stapler

#### Step 7: Additional Options

- AU-201H Proximity Card Authentication Unit
- AU-202H iClass Card Authentication Unit
- LK-106 i-Option License Kit Barcode Printing
- LK-107 i-Option License Kit Unicode Font Printing
- LK-108 i-Option License Kit OCR Font Printing
- LK-111 i-Option License Kit ThinPrint® Client Support
- SX-4600 WAN Wireless Network Adapter



# Konica Minolta bizhub C3110

## Specification & Installation Guide



### Accessory Options for bizhub C3110 Digital Color Printer/Copier/Scanner

DESCRIPTION	ITEM NO.	NOTES
<b>BASE UNIT</b>		
C3110 Digital Color Printer/Copier/Scanner	A6DT011	Includes PS & PCL Controller, Automatic Duplex Unit, Reversing Automatic Document Feeder, 1 GB Standard Memory, Standard USB 2.0 (supports local printing), Toner and CMYK Imaging Units, and a one-year warranty.
<b>PAPER HANDLING OPTIONS</b>		
Lower Feeder Unit (500 sheets)	A73HWY1	Lower Feeder Unit adds 500 sheets of paper capacity (8.5" x 11" or 8.5" x 14").
SCD-25 Copy Desk	7640015306	Adds storage and mobility. Brings printer to operational height.
<b>STORAGE AND MEMORY OPTIONS</b>		
320 GB internal hard disk	A734WY1	Adds proof then print, secured job, print and hold, usb flash drive direct print and stored job functions. Required for i-Option and card reader support.
1 GB expansion memory	—	Adds 1 GB memory for faster processing.
<b>FINISHING OPTION</b>		
CS-1	7640013463	Standalone electronic stapler.
<b>ADDITIONAL OPTIONS</b>		
LK-106**	A0PD019	i-Option License Kit provides Barcode Font printing support.
LK-107**	A0PD01F	i-Option License Kit provides Unicode Font printing support.
LK-108**	A0PD01G	i-Option License Kit provides OCR Font printing support.
LK-111	A0PD01K	i-Option License Kit provides ThinPrint® client support.
AU-201H**	7640005064	Allows access to AiO via HID proximity cards. Optional HDD required.
AU-202H**	7640008394	Allows access to AiO via HID iClass cards. Optional HDD required.
SX-4600WAN	SX4600WAN	Provides wireless connectivity.
<b>ANALOG FAX OPTIONS</b>		
FK-512	A6EDW11	Supports single-line fax capabilities. MK-P04 Mount Kit required.
MK-P04	A735WY1	Mount kit required for FK-512.

### CONSUMABLE YIELDS\*

CONSUMABLE	ITEM NO.	YIELD
Imaging Unit – K	A73303F	30,000
Imaging Unit – C	A7330KF	30,000
Imaging Unit – M	A7330EF	30,000
Imaging Unit – Y	A73308F	30,000
Toner – K	A0X5135	6,000
Toner – C	A0X5435	6,000
Toner – M	A0X5335	6,000
Toner – Y	A0X5235	6,000
Transfer Belt Unit	A1480Y1	100,000
2nd Transfer Roller	A1480Y2	100,000
Waste Toner Bottle	A1AU0Y1	30,000
Fusing Unit	A148010	100,000

\* Approximate yield at 5% coverage.

\*\* Requires optional hard disk drive.

# Konica Minolta bizhub C3110

## Documentation Information



All documentation can be downloaded from MyKonicaMinolta.com by clicking on Product Reference Materials under the Products Portlet.

### **User Manuals**

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[bizhub C3110 Scan Functions User Guide](#)  
[bizhub C3110 Quick Start User Guide](#)  
[bizhub C3110 Print Functions User Guide](#)  
[bizhub C3110 PC-Fax Functions User Guide](#)  
[bizhub C3110 Maintenance Troubleshooting User Guide](#)  
[bizhub C3110 Introduction User Guide](#)  
[bizhub C3110 Fax Functions User Guide](#)  
[bizhub C3110 Description of Utility Keys](#)  
[bizhub C3110 Copy Functions User Guide](#)  
[bizhub C3110 Applied Functions User Guide](#)  
[bizhub C3110 Advanced Functions User Guide](#)

### **Installation Instructions**

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[bizhub C3110 Set Up Guide](#)

### **Service Manuals**

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[bizhub C3110 PDF Service Manual](#)  
[bizhub C3110 HTML Service Manual](#)

### **Parts Manuals**

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[bizhub C3110 Parts Manual](#)  
[PF-P14 Parts Manual](#)  
[HD-P06 Parts Manual](#)  
[FK-512 Parts Manual](#)  
[MK-P04 Parts Manual](#)

## Program Release Information

CSES ID-No. DLBT1404696EN00

Model: bizhub C3110

Title: Initial Mass-production Program (Controller Firmware)

2014/4/15

### 1. Release version and download file name

The newly released program version and download file name are as follows.

[Release Version]

Model	Program Name	Current Ver.	New Ver.	Download file name	SHA-256
bizhub C3110	Controller firmware	-	A6DT30G0116- 999	bizhubC3110_Cont_A6 DT30G0116-999.zip	8bd521b569f21b82e59aa 87a94c87bc9aebaca8998 6dea4f7335e084ebcecf1b

[Download file name]

bizhubC3110\_Cont\_A6DT30G0116-999.zip

PRI\_DLBT1404696EN\_0.doc

### 2. Changes

This is the initial version.

### 3. Restrictions

<Planned to be supported in MR of around the middle of Nov,2014.>

- When the machine wakes up from Deep Sleep mode with a USB flash memory connected to it, sometimes "USB CONN ERR" is displayed and printing cannot be done.(This does not occur if a USB flash memory is connected during Deep Sleep mode. It occurs when the machine enters Deep Sleep mode with a USB flash memory connected and wakes up later.)
- If you specify 2W or below as power consumption for Deep Sleep mode (development goal), sometimes the machine does not wake up.  
(Remove the function that sets the power consumption to 2W or below.)
- When there is no HDD installed, if canceling a copy job during Memory Full caused by paper empty or something, the job status will be shown as "Printing" in PSWC although the true status is "Being cancelled".
- During a fax transmission, if you start a copy job and press Stop or Reset key while scanning the copy document, you will see "Please wait..." on the operation panel. If the fax job has been completed before the message "Are you sure to cancel the job?" appears, the "Please wait..." message will be kept displayed.

<The following item remains unsupported this time.>

- When the part life of the second transfer roller, transfer belt, or the fixer reaches 256K pages, their life information will be cleared. (Therefore it appears to be as if there is still remaining life.)  
(Based on the product specification, 100K is the normal life value. This phenomenon occurs because 256K exceeds the normal life value.)

### 4. Programs to be applied at the same time

There is no specific program to be applied with this firmware.

However, using with the latest version programs is recommended.

### 5. How to install

Please refer to "J. Rewriting of firmware ", Service Manual.

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## Program Release Information

CSES ID-No. DLBT1408853EN00

Title: KONICA MINOLTA Universal Print Driver Ver.2 Maintenance Release 5 (PCL/Version 2.50.0.0)

2014/05/30

### 1. Release version and download file name

The newly released program version and download file name are as follows.

**When a Universal Printer Driver which is older than this version (v2.50.0.0) is installed in your PC, if this version (v2.50.0.0) is updated by Add install, the Printing preferences and the Printer properties will not be displayed correctly. If this version (v2.50.0.0) is installed by the installer (Setup.exe), the following message will be displayed and this version (v2.50.0.0) cannot be installed.**

**"The printer driver is not a target for update."**

**Please be sure to install this version (v2.50.0.0) after deleting the older version.**

[Release version]

Program Name	Current Ver.	New Ver.	Language	Install Type
KONICA MINOLTA Universal PCL	v2.40.0.0	v2.50.0.0	JA/EN/FR/IT/DE/ES/ KO/ZH-CN/ZH-TW	Exe type

Model	Child Driver Version	Note
Baseline *1 KONICA MINOLTA 163/211	1.0.1.UPD_05	
KONICA MINOLTA A3 common *3 KONICA MINOLTA mc8650	1.0.1.UPD_03	
KONICA MINOLTA A4 common *2 KONICA MINOLTA C30P/C31P KONICA MINOLTA C20 KONICA MINOLTA C20P KONICA MINOLTA 40P KONICA MINOLTA mc5550/mc5570 KONICA MINOLTA mc5650/mc5670 KONICA MINOLTA mc4650 KONICA MINOLTA mc4695MF KONICA MINOLTA pp4650/pp5650 KONICA MINOLTA mc5450	1.0.0.UPD_02	
KONICA MINOLTA 500/420/360	3.0.2.UPD_03	
KONICA MINOLTA 501/421/361	2.0.1.UPD_03	
KONICA MINOLTA 750/600	3.1.0.UPD_03	
KONICA MINOLTA 751/601 (1.0.3.UPD_03)	1.0.3.UPD_03	MFP FW ver.19 series or older
KONICA MINOLTA 751/601 (2.0.0.UPD_03)	2.0.0.UPD_03	MFP FW ver.20 series or later
KONICA MINOLTA C650/C550/C451	6.3.0.UPD_04	
KONICA MINOLTA C450/C450P/C351	1.0.0.UPD_04	
KONICA MINOLTA C352/C352P/C300	1.0.1.UPD_03	
KONICA MINOLTA C250/C250P	1.1.1.UPD_04	
KONICA MINOLTA C252/C252P	1.1.1.UPD_03	
KONICA MINOLTA C353/C253/C203	6.3.0.UPD_04	
KONICA MINOLTA 350/250/200	1.1.2.UPD_03	
KONICA MINOLTA 362/282/222	1.1.0.UPD_03	
KONICA MINOLTA C652(DS)/C552(DS)/C452	3.0.16.UPD_03	
KONICA MINOLTA C360/C280/C220	3.0.16.UPD_05	
KONICA MINOLTA 423/363/283/223	1.1.2.UPD_03	
KONICA MINOLTA 652/602/552/502	1.1.0.UPD_05	
KONICA MINOLTA C35 KONICA MINOLTA C35P/mc4750 KONICA MINOLTA C25	1.1.2.UPD_03	
KONICA MINOLTA 20	1.0.0.UPD_04	
KONICA MINOLTA 20P	1.0.0.UPD_04	
KONICA MINOLTA 42/36 (EU/JP)	1.0.0.UPD_01	
KONICA MINOLTA 42/36	2.0.0.UPD_02	
KONICA MINOLTA C754(e)/C654(e)	4.1.0.UPD_01	

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KONICA MINOLTA 195/215/235	1.0.0.UPD_06	
KONICA MINOLTA C554(e)/C454(e)/C364(e)/C284(e)/C224(e)	4.1.0.UPD_01	
KONICA MINOLTA 754(e)/654(e)	4.1.0.UPD_01	
KONICA MINOLTA 4700P/4000P/3300P	1.0.9.UPD_07	
KONICA MINOLTA 554e/454e/364e/284e/224e	4.1.0.UPD_01	
KONICA MINOLTA C3850/C3350	1.3.1.UPD_03	
KONICA MINOLTA 4020/3320	1.2.0.UPD_05	
KONICA MINOLTA 4750/4050	1.1.1.UPD_02	
KONICA MINOLTA 25e	1.0.0.UPD_04	
KONICA MINOLTA C3100P	1.1.2.UPD_03	
KONICA MINOLTA C3110	1.0.0.UPD_03	

\*1 Baseline: Common driver (mc1650/2550/7440/7450/7450II/C10P, etc)

You can select 163/211 from Model Name.

\*2 KONICA MINOLTA A4 common: KM Common driver (pagepro Series, magicolor (A4))

You can select C30P/C31P/C20/C20P/40P/mc5550/mc5570/mc5650/mc5670/mc4650/mc4695MF/pp4650/pp5650/mc5450 from Model Name.

\*3 KONICA MINOLTA A3 common: KM Common driver (bizhub Series (A3), mc8650, etc)

You can select mc8650 from Model Name.

\*4 When trying to connect to a device from Device Selector window and individual child driver is not contained, KM common driver may be used. In case the child driver for each model, KM common driver can not be used, the common driver (Baseline) will be selected.

[Download file name]

KM\_UniversalDriver\_pcl\_v2.50.0.0\_x86.zip

KM\_UniversalDriver\_pcl\_v2.50.0.0\_x64.zip

PRI\_DLBT1408853EN\_0.doc



## Program Release Information

CSES ID-No. DLBT1408853EN00

Title: KONICA MINOLTA Universal Print Driver Ver.2 Maintenance Release 5 (PCL/Version 2.50.0.0)

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[Supported OS]

OS	WHQL
Windows Server 2003, Standard Edition Windows Server 2003, Enterprise Edition Windows Server 2003 R2, Standard Edition Windows Server 2003 R2, Enterprise Edition Windows Server 2003, Standard x64 Edition Windows Server 2003, Enterprise x64 Edition Windows Server 2003 R2, Standard x64 Edition Windows Server 2003 R2, Enterprise x64 Edition	Yes
Windows Vista Home Basic* Windows Vista Home Premium* Windows Vista Ultimate* Windows Vista Business* Windows Vista Enterprise*	Yes
Windows Server 2008 Standard* Windows Server 2008 Enterprise*	Yes
Windows Server 2008 R2 Standard Windows Server 2008 R2 Enterprise	Yes
Windows 7 Home Basic* Windows 7 Home Premium* Windows 7 Professional* Windows 7 Enterprise* Windows 7 Ultimate*	Yes
Windows 8 * Windows 8 Pro* Windows 8.1 * Windows 8.1 Pro* Windows Server 2012 Standard Windows Server 2012 Datacenter Windows Server 2012 Essentials Windows Server 2012 R2 Standard Windows Server 2012 R2 Datacenter Windows Server 2012 R2 Essentials	Yes

\* Both 32bit (x86), 64bit (x64)

Support the following operation environments.

- Windows Server 2003 / 2008 Cluster Server Service (32/64 bit)
- Windows Server 2008 R2 / 2012 / 2012 R2 Cluster Server Service
- Citrix Presentation Server 4.5
- Citrix XenApp 5.0/6.0
- Terminal Services
- Remote Desktop
- Terminal Services Easy Print
- Remote Desktop Easy Print

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### 2. What changed

2-1. The following issue is modified in this version.

1. Following Child drivers are added.
  - KONICA MINOLTA C3100P
  - KONICA MINOLTA C3110
2. Support the following models.
  - KONICA MINOLTA C3100P
  - KONICA MINOLTA C3110
  - KONICA MINOLTA C754e/C654e,C554e/C454e/C364e/C284e/C224e,754e/654e,554e/454e/364e/284e/224e  
Function Version 5
  - KONICA MINOLTA 4750/4050 Ver.A6F730G0236-999
  - KONICA MINOLTA C3850/C3350 Ver.A3GN30G0206-999
3. Multi-Language is supported.
4. When installing the driver by Add install, Device Selector is not shown.

### 3. Restrictions

1. The message "Operation could not be completed." may be displayed when you open the Device Selector window from Printing Preferences...(document property) and then, close with Cancel button.
2. With the Windows Server 2003:
  - 1) To open the help topic, "?" button on the Upper right on the driver dialog does not work.
  - 2) To open the help topic, the right button click menu of the mouse does not work.Note: Windows Vista does not have above two features. It is the restriction from OS.  
Note: To open help topic, please click help button on the driver dialog.

Apply to the following models:

KONICA MINOLTA C450/C450P/C351  
KONICA MINOLTA C352/C352P/C300  
KONICA MINOLTA C250/C250P  
KONICA MINOLTA C252/C252P  
KONICA MINOLTA 350/250/200  
KONICA MINOLTA 500/420/360  
KONICA MINOLTA 750/600

3. There are following restrictions under IPv6 connection.  
<The case that is used linklocal address>  
The driver cannot acquire the device information but, Printing is possible.  
Use IPv4 to acquire the device information.

<Connecting to MFP with an IPv6 global address does not work.>

Please connect with IPv4 address or please use IPv6 link local address when it is not necessary to be retrieved the device information.

Apply to the following models:

KONICA MINOLTA C650/C550/C451  
KONICA MINOLTA C353/C253/C203  
KONICA MINOLTA C450/C450P/C351  
KONICA MINOLTA C352/C352P/C300  
KONICA MINOLTA C250/C250P  
KONICA MINOLTA C252/C252P  
KONICA MINOLTA 350/250/200  
KONICA MINOLTA 500/420/360  
KONICA MINOLTA 750/600  
KONICA MINOLTA 751/601

4. When printing the job from Microsoft PowerPoint2007, "Remove White Background" does not work in the Universal Print Driver.

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5. If you print the job from Microsoft Excel when selecting the destination printer on the Device Selector and using it, paper size and printing direction that were saved in Excel file may not be reflected.

#### Countermeasure

Please select Excel file >Print >Properties and perform setting again.

6. If you open "Properties" when using the Universal Print Driver under the following conditions, do not switch the application until the Device Selector is opened.  
When the following symptom1 occurs, please close the Device Selector.

#### Condition:

32bit Application is installed on Windows 64bit OS.

#### Procedure/ Symptom

- 1) Open Print> Properties of 32bit application (ex. applicationA). After that, if you switch to another application (ex. applicationB), switched application (applicationB) does not respond.
  - 2) If you close "Print Dialog" of 32bit application (applicationA) under the condition1, 32bit application (applicationA) does not respond.
7. Incorrect driver may be selected when trying to print on the same MFP with changing the driver like example below.

#### Occurring case

- The firmware for the MFP updated.
- When you selected the driver manually, and the driver manually selected was the different one from the driver listed on the network search.

#### Occurring PDL

PCL Driver

#### Countermeasure

User who operates the MFP performs Logoff, and login to the MFP again.

8. When printing the file has a large image from KONICA MINOLTA 20/20P PCL Child Driver, the Black line appears on the image.

#### Countermeasure

Use KONICA MINOLTA 20/20P PS Driver or KONICA MINOLTA 20/20P PCL Driver of product.

9. In Dynamic Mode, even if change the port from the Device Selector screen, the port may not be changed when opening Printer properties. (Specification for OS)

10. On Microsoft Publisher 2007, there is a restriction as below.

After installing Universal Print Driver, if you never use it and print the job from Dynamic Mode, Printing Preferences is not reflected in the printing result.

#### Countermeasure

- 1) Close Microsoft Publisher 2007.
- 2) Open Printing Preferences of Universal Print Driver from "Printer and Faxes".
- 3) Select the Device from the Device Selector screen and click "OK" button in displayed Printing Preferences screen.

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11. In Citrix Presentation Server 4.5/Citrix XenApp 5.0, there are restrictions as below.

- Dynamic Mode is not supported. Please use Traditional Mode.

- When installing Universal Print Driver to Client PC from Traditional Mode, if Admin Privilege User opens "Printing Preferences" or "Properties" of AutoCreate Driver, the Device Selector screen is started. (Specification for Presentation Server 4.5/ Citrix XenApp 5.0)

It is possible to print the job if select output port and child driver from started Device Selector screen.

If any user except Admin Privilege user performs this, this symptom does not occur.

- If perform the following operation, cannot close the Properties screen of Citrix Universal Print Driver. (Specification for Universal Print Driver of Citrix)

- 1) Create the printer icon from Traditional Mode on the Client PC.
- 2) Connect to the Citrix.
- 3) When open the Properties of AutoCreate Printer icon from "Printer and Faxes", the Properties of Citrix Universal Print Driver is displayed.
- 4) If click "Local Printer Settings" button, the Properties of KONICA MINOLTA Universal Print Driver is displayed. Click "OK".
- 5) Even if click OK or Cancel from the Properties of Citrix Universal Print Driver, the Properties screen is not closed.

If open the Properties from the application, this symptom does not occur.

### Countermeasure

- Please open the Properties setting from the printer icon that created from Traditional Mode of Client PC and perform setting before connecting to the Citrix.

12. When using Dynamic Mode, there is a restriction as below.

When changing the Device from the Device Selector screen, Printing Preferences setting may not go back to the default.

### Countermeasure

Please select "Default Setting" from the Favorite Setting and set Printing Preferences to the Default.

### Occurring PDL

PCL Driver

13. Any user except the user installed Universal Print Driver or Admin Privilege User cannot open the Device Selector screen.

When open the Device Selector screen, please use "Run as administrator".

### Occurring OS

- WindowsVista
- Windows Server 2008

14. In CorelDRAW Graphics Suite, if select "Collate", it does not work.

### Countermeasure

- 1) Select "File"> "Print".
- 2) Click "References" button and select "Printer Preferences" of Driver.
- 3) Select "Collate" of "Printer Preferences".

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15. When performing the operation below, the following symptom may occur depending on the PC.

- Right-click the printer icon that added from Traditional Mode and click "Properties".  
If perform this operation continuously, the following symptom may occur.
- Multiple Properties screens may be opened.
- Abnormal end of Explorer may occur.
  
- In Dynamic Mode, after selecting the Device from the Device Selector screen, right-click the driver and click "Properties" before Properties screen is displayed.  
If perform this operation continuously, the following symptom may occur.
  
- Multiple Properties screens may be opened.
- Abnormal end of Explorer may occur.
  
- If click "Printer Preferences" of General Tab many times, the following symptom may occur.
- Multiple Properties screens may be opened.
- Abnormal end of Explorer may occur.

### Countermeasure

Close all Properties/Printing Preferences screens and open them again.

When abnormal end of Explorer occurs, perform log off and log on.

16. If "Share the Printer" is selected and the printer icon is created under the following setting, it fails to create the printer icon. (Restriction of OS)

Control Panel > Network and Sharing Center > Change advanced sharing settings > File and Printer sharing  
"Turn off file and printer sharing"

Please select "Turn on file and printer sharing"

### Occurring OS

- Windows Vista
- Windows Server 2008
- Windows 7

17. In Terminal Service/ Remote Desktop, there are restrictions as below.

### <TS Easy Print / RD Easy Print>

- When printing the job from Microsoft PowerPoint, "Remove White Background" does not work.
- When printing the job from Microsoft Excel, "Excel Job Control" does not work.
- "Use Printer Fonts" does not work.

### <Terminal Service/ Remote Desktop (traditional Printer Redirection)>

- The user who is not allowed installation of printer driver on OS security can not use Universal Print Driver.
- If Admin Privilege User opens "Printing Preferences" or "Properties" of printer icon created by Traditional Mode, the Device Selector screen is started. Please select the same model as the printer icon that you are trying to open in the Device Selector screen and close it. And then open "Printing Preferences" or "Properties" of printer icon.
- If you never open printing preferences of the printer icon and printing the job after creating printer icon by Traditional Mode, the job is not printed out.

18. If Properties is opened by "Run as administrator" on Windows Vista, Multiple Device Selector screen can be opened. (Restriction of OS)

19. In "Add Printers from Printer List" function, there are restrictions as below.

- The following symptoms may occur when PC is not rebooted after deleting the created printer icon.  
The printer icon may be created by the deleted model name under the following situation.
- MFP/Printer A and MFP/Printer B is the same IP address.
- MFP/Printer A and MFP/Printer is different model.
  1. Delete the printer icon for MFP/Printer A.
  2. Create the printer icon for MFP/Printer B.Result: The created printer icon name is MFP/Printer A
  
- The spooler screen may be displayed while creating printer icon.

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CSES ID-No. DLBT1408853EN00

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20. There is following restrictions under Point and Print environment when the added watermark which is not shared and it is set as default on the Server.
- The watermark below the added watermark on the Server is not reflected on client.
21. When the Spin button is clicked continuously, the Spin button may not be displayed.
22. If the printer icon is created by Traditional Mode using "Network Search" under the following situation, the Child driver is not selected correctly. (Restriction of OS)
- The printer icon of MFP/Printer with the same IP address and the same Device Name (Device Name in Machine Setting) exist on the network is created again after create the printer icon.
23. The following symptom occurs under Point and Print environment. (Restriction of OS)
- "It could not access to the printer" or "Operation could not be completed." is displayed and Property of printer icon on client can not be opened under the following situation.
- OS: Windows 7
  - UPD Version: v1.0.0.0/1.2.0.0/1.3.0.0/1.10.1.0/1.11.1.0  
And updating to this version from above version.
  - ":" + "character of A to F" is used for printer icon name.
24. Admin Privilege User except Built-in administrator may not be able to open the Device Selector screen on Server 2012.
- If the Device Selector screen can not be opened, please apply the following procedure.
- 1) Open the Print server properties.
  - 2) Click "Add" button in Security Tab and add Admin Privilege User.  
\*If "Add" button is grayed out, please select Security Tab after click "Change Form settings" button in Forms Tab.
  - 3) Enable "Allow" of the followings for the added Admin Privilege User.
    - Manage Printers
    - View Server
    - Manage Server
25. When you select "Share the Printer" of [Add this Printer to my Printers folder] of Device Selector and try to add the printer icon on Windows Vista, "It fails to share the printer" is displayed and the icon cannot be added.
- Countermeasure  
Please right-click on the printer icon and select "Run as administrator" to open Device Selector.

## 4. Important Notice

1. The reproduction of bizhub20 /20P picture is prohibited.

## Program Release Information

CSES ID-No. DLBT1408853EN00

Title: KONICA MINOLTA Universal Print Driver Ver.2 Maintenance Release 5 (PCL/Version 2.50.0.0)

2014/05/30

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### 5. How to install/ uninstall program

**When a Universal Printer Driver which is older than this version (v2.50.0.0) is installed in your PC, if this version (v2.50.0.0) is updated by Add install, the Printing preferences and the Printer properties will not be displayed correctly. If this version (v2.50.0.0) is installed by the installer (Setup.exe), the following message will be displayed and this version (v2.50.0.0) cannot be installed.**

**"The printer driver is not a target for update."**

**Please be sure to install this version (v2.50.0.0) after deleting the older version.**

#### 5.1 How to install

##### a) When using Installer,

If your PC is 32-bit environment, please use "UPDSetup.exe". If your PC is 62-bit environment, please use "UPDSetup64.exe". And follow the onscreen wizard to do installation.

\* In the following environment, cannot use the Installer. Please refer to c) or d).

- Microsoft Cluster Server
- Citrix Presentation Server 4.5
- Citrix XenApp 5.0/6.0

##### b) When install manually

Please perform installation using Add Printer Wizard in Windows.

##### c) When installing Universal Print Driver in Microsoft Cluster Server.

c-1) In the node that creates Cluster, access to the printer folder of Virtual Server from Active Node.

c-2) Install Universal Print Driver using add Printer Wizard.

\* About the destination port, please specify the optional port.

\* Please select "Do not share this printer".

\* In Add Printer Wizard, cannot print the test page.

c-3) Open Properties of Universal Print Driver on the printer folder and display the Device Selector screen.

c-4) Select the device and create the printer icon from Traditional Mode.

\* Using Dynamic Mode is not supported in the Cluster Server.

c-5) Close Properties of Universal Print Driver from "Cancel" button.

c-6) When using Universal Print Driver in Point and Print, set the printer icon that created at C-4) to "share this printer".

##### d) When installing Universal Print Driver to Citrix Presentation Server 4.5, Citrix XenApp 5.0/6.0

d-1) Please perform installation using Add Printer Wizard in Windows.

#### Installation Note

When performing installation using Add Printer Wizard in Windows, "Do you want to print a test page?" is displayed while installing Universal Print Driver. Output port is not decided at this point. Therefore, if select "Yes", the test page is not printed out.

## Program Release Information

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### 5.2 How to un-install Universal Print Driver

#### a) When un-install using Uninstaller

Please start up "Uninstaller" from any of the following and follow the instructions of dialog box to un-install the driver.

- "Start" menu > "All Programs" > "KONICA MINOLTA" > "Universal PCL"
- "Control Panel" > "Add or Remove Programs" > "Remove" button of "KONICA MINOLTA Universal PCL"

#### b) When un-install manually

If un-install the driver completely, please perform the following procedure.

When un-installing UPD, if the folders or files are hidden, please change the setting to indicate the files and folders.

1. Delete the printer icon. (for all OS)
  - From [Printers (and Faxes)] folder, right click [KONICA MINOLTA Universal PCL] icon and select [Delete].
  - If you registered the printer icon from [Add this Printer to my Printers folder] of Device Selector, please delete all registered printer icons.
  - After deleting all icons related to Universal Print Driver, go to [file] - [Server Properties] - [Drivers] tab and Remove [KONICA MINOLTA Universal PCL].
2. Delete entries from the Registry. (for all OS)
  - [Start] button - [Run...] - input "regedit" - [OK], and start the [Registry Editor].
  - Please delete all the following keys and each sub-key by the Registry Editor. (Differ in PCL and PS.)  
(The existing registry key depends on the version of installed UPD.)  
<PCL>  
HKEY\_CURRENT\_USER\Software\KONICA MINOLTA\KONICA MINOLTA Universal PCL
3. Please delete the following folders.
  - <32 bit OS (Windows XP(x86), Server 2003(x86), Vista(x86), Server2008(x86), 7(x86))>  
C:\WINDOWS\system32\spool\drivers\w32x86\konica\_minoltauniverfe33
  - <64 bit OS (Windows XP(x64), Server 2003(x64), Vista(x64), Server2008(x64), 7(x64), Server2008R2)>  
C:\WINDOWS\system32\spool\drivers\x64\konica\_minoltauniverfe33
4. Delete the UPD child drivers.
  - OS might grip the file. Please delete the following folders after restart PC.
    - <32 bit OS (Windows XP(x86), Server 2003(x86), Vista(x86), Server2008(x86), 7(x86))>  
C:\KMUPDcache\x86\PCL
    - <64 bit OS (Windows XP(x64), Server 2003(x64), Vista(x64), Server2008(x64), 7(x64), Server2008R2)>  
C:\KMUPDcache\x64\PCL

## 6. How to check version information

1. Open "Printers and Faxes".
2. Select "KONICAMINOLTA Universal PCL".
3. Right click on the icon and select "Properties".
4. Click "Details" button.
5. Click "Option" button.
6. Click "Version Information".

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\*7z.dll that is a part of 7-Zip program is included in this printer driver.

7-Zip is provided under the license of GNU LGPL.

7-Zip can be obtained from [www.7-zip.org](http://www.7-zip.org).

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## Program Release Information

CSES ID-No. DLBT1408854EN00

Title: KONICA MINOLTA Universal Print Driver Ver.2 Maintenance Release 5 (PS/ Version 2.50.0.0)

2014/05/30

### 1. Release version and download file name

The newly released program version and download file name are as follows.

**When a Universal Printer Driver which is older than this version (v2.50.0.0) is installed in your PC, if this version (v2.50.0.0) is updated by Add install, the Printing preferences and the Printer properties will not be displayed correctly. If this version (v2.50.0.0) is installed by the installer (Setup.exe), the following message will be displayed and this version (v2.50.0.0) cannot be installed.  
"The printer driver is not a target for update."**

**Please be sure to install this version (v2.50.0.0) after deleting the older version.**

[Release version]

Program Name	Current Ver.	New Ver.	Language	Install Type
KONICA MINOLTA Universal PS	v2.40.0.0	v2.50.0.0	JA/EN/FR/IT/DE/ES/ KO/ZH-CN/ZH-TW	Exe type

Model	Child Driver Version	Note
Baseline *1	1.0.1.UPD_04	
KONICA MINOLTA A3 common *3 KONICA MINOLTA mc8650	1.0.1.UPD_03	
KONICA MINOLTA A4 common *2 KONICA MINOLTA C30P/C31P KONICA MINOLTA C20 KONICA MINOLTA C20P KONICA MINOLTA 40P KONICA MINOLTA mc5550/mc5570 KONICA MINOLTA mc5650/mc5670 KONICA MINOLTA mc4650 KONICA MINOLTA mc4695MF KONICA MINOLTA pp4650/pp5650 KONICA MINOLTA mc5450	1.0.0.UPD_02	
KONICA MINOLTA 500/420/360	3.0.2.UPD_03	
KONICA MINOLTA 501/421/361	2.0.1.UPD_03	
KONICA MINOLTA 750/600	3.1.0.UPD_03	
KONICA MINOLTA 751/601(1.0.2.UPD_03)	1.0.2.UPD_03	MFP FW ver.19 series or older
KONICA MINOLTA 751/601(2.0.0.UPD_03)	2.0.0.UPD_03	MFP FW ver.20 series or later
KONICA MINOLTA C650/C550/C451	6.3.1.UPD_04	
KONICA MINOLTA C450/C450P/C351	1.0.0.UPD_04	
KONICA MINOLTA C352/C352P/C300	1.0.1.UPD_03	
KONICA MINOLTA C250/C250P	1.1.2.UPD_04	
KONICA MINOLTA C252/C252P	1.1.2.UPD_03	
KONICA MINOLTA C353/C253/C203	6.3.1.UPD_04	
KONICA MINOLTA 350/250/200	1.1.2.UPD_03	
KONICA MINOLTA 362/282/222	1.1.0.UPD_03	
KONICA MINOLTA C652(DS)/C552(DS)/C452	3.0.16.UPD_04	
KONICA MINOLTA C360/C280/C220	3.0.16.UPD_05	
KONICA MINOLTA 423/363/283/223	1.1.1.UPD_03	
KONICA MINOLTA 652/602/552/502	1.1.0.UPD_05	
KONICA MINOLTA C35 KONICA MINOLTA C35P/mc4750 KONICA MINOLTA C25	1.1.2.UPD_03	
KONICA MINOLTA 20	1.0.1.UPD_06	
KONICA MINOLTA 20P	1.0.1.UPD_06	
KONICA MINOLTA 42/36 (EU/JP)	1.0.1.UPD_01	
KONICA MINOLTA 42/36	2.0.0.UPD_02	
KONICA MINOLTA C754(e)/C654(e)	4.1.0.UPD_01	
KONICA MINOLTA C554(e)/C454(e)/C364(e)/C284(e)/C224(e)	4.1.0.UPD_01	
KONICA MINOLTA 754(e)/654(e)	4.1.0.UPD_01	
KONICA MINOLTA 4700P/4000P/3300P	1.0.9.UPD_07	

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KONICA MINOLTA 554e/454e/364e/284e/224e	4.1.0.UPD_01	
KONICA MINOLTA C3850/C3350	1.3.1.UPD_02	
KONICA MINOLTA 4020/3320	1.2.0.UPD_05	
KONICA MINOLTA 4750/4050	1.1.1.UPD_02	
KONICA MINOLTA 25e	1.0.0.UPD_04	
KONICA MINOLTA C3100P	1.1.0.UPD_02	
KONICA MINOLTA C3110	1.0.0.UPD_02	

\*1 Baseline: Common driver (mc1650/2550/7450/7450II/C10P, etc)

\*2 KONICA MINOLTA A4 common : KM Common driver (pagepro Series, magicolor(A4))

You can select C30P/C31P/C20/C20P/40P/mc5550/mc5570/mc5650/mc5670/mc4650/mc4695MF/pp4650/pp5650/mc5450 from Model Name.

\*3 KONICA MINOLTA A3 common : KM Common driver (bizhub Series(A3), mc8650,etc)

You can select mc8650 from Model Name.

\*4 When trying to connect to a device from Device Selector window and individual child driver is not contained, KM common driver may be used. In case the child driver for each model, KM common driver can not be used, the common driver (Baseline) will be selected.

[Download file name]

KM\_UniversalDriver\_ps\_v2.50.0.0\_x86.zip

KM\_UniversalDriver\_ps\_v2.50.0.0\_x64.zip

PRI\_DLBT1408854EN\_0.doc

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[Supported OS]

OS	WHQL
Windows Server 2003, Standard Edition Windows Server 2003, Enterprise Edition Windows Server 2003 R2, Standard Edition Windows Server 2003 R2, Enterprise Edition Windows Server 2003, Standard x64 Edition Windows Server 2003, Enterprise x64 Edition Windows Server 2003 R2, Standard x64 Edition Windows Server 2003 R2, Enterprise x64 Edition	Yes
Windows Vista Home Basic* Windows Vista Home Premium* Windows Vista Ultimate* Windows Vista Business* Windows Vista Enterprise*	Yes
Windows Server 2008 Standard* Windows Server 2008 Enterprise*	Yes
Windows Server 2008 R2 Standard Windows Server 2008 R2 Enterprise	Yes
Windows 7 Home Basic* Windows 7 Home Premium* Windows 7 Professional* Windows 7 Enterprise* Windows 7 Ultimate*	Yes
Windows 8 * Windows 8 Pro* Windows 8.1 * Windows 8.1 Pro* Windows Server 2012 Standard Windows Server 2012 Datacenter Windows Server 2012 Essentials Windows Server 2012 R2 Standard Windows Server 2012 R2 Datacenter Windows Server 2012 R2 Essentials	Yes

\* Both 32bit(x86), 64bit(x64)

Support the following operation environments.

- Windows Server 2003 / 2008 Cluster Server Service(32/64 bit)
- Windows Server 2008 R2 / 2012 / 2012 R2 Cluster Server Service
- Citrix Presentation Server 4.5
- Citrix XenApp 5.0/6.0
- Terminal Services
- Remote Desktop

## 2. What changed

2-1. The following issue is modified in this version.

1. Following Child drivers are added.
  - KONICA MINOLTA C3100P
  - KONICA MINOLTA C3110
2. Support the following models.
  - KONICA MINOLTA C3100P
  - KONICA MINOLTA C3110
  - KONICA MINOLTA C754e/C654e,C554e/C454e/C364e/C284e/C224e,754e/654e,554e/454e/364e/284e/224e  
Function Version 5
  - KONICA MINOLTA 4750/4050 Ver.A6F730G0236-999
  - KONICA MINOLTA C3850/C3350 Ver.A3GN30G0206-999
3. Multi-Language is supported.
4. When installing the driver by Add install, Device Selector is not shown.

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### 3. Restrictions

1. The message "Operation could not be completed." may be displayed when you open the Device Selector window from Printing Preferences...(document property) and then, close with Cancel button.
2. With the Windows Server 2003:
  - 1) To open the help topic, "?" button on the Upper right on the driver dialog does not work.
  - 2) To open the help topic, the right button click menu of the mouse does not work.Note: Windows Vista does not have above two features. It is the restriction from OS.  
Note: To open help topic, please click help button on the driver dialog.

Applies to the following models:

KONICA MINOLTA C450/C450P/C351  
KONICA MINOLTA C352/C352P/C300  
KONICA MINOLTA C250/C250P  
KONICA MINOLTA C252/C252P  
KONICA MINOLTA 350/250/200  
KONICA MINOLTA 500/420/360  
KONICA MINOLTA 750/600

3. There are following restrictions under IPv6 connection.  
<The case that is used linklocal address>  
The driver cannot acquire the device information but, Printing is possible.  
Use IPv4 to acquire the device information.

<Connecting to MFP with an IPv6 global address does not work.>

Please connect with IPv4 address or please use IPv6 link local address when it is not necessary to be retrieved the device information.

Applies to the following models:

KONICA MINOLTA C650/C550/C451  
KONICA MINOLTA C353/C253/C203  
KONICA MINOLTA C450/C450P/C351  
KONICA MINOLTA C352/C352P/C300  
KONICA MINOLTA C250/C250P  
KONICA MINOLTA C252/C252P  
KONICA MINOLTA 350/250/200  
KONICA MINOLTA 500/420/360  
KONICA MINOLTA 750/600  
KONICA MINOLTA 751/601

4. If you perform Booklet Printing using the following drivers, direction and position of the image on the job is not printed correctly.
  - Baseline PS (Common for all venders)
  - KONICA MINOLTA A4 PS (KM Common driver for Printer Model)

Countermeasure

PostScript Driver:

After setting "Advanced> PostScript Pass Through" to "Disable", please perform printing.

5. When printing the job from Microsoft PowerPoint2007, "Remove White Background" does not work in the Universal Print Driver.
6. If you print the job from Microsoft Excel when selecting the destination printer on the Device Selector and using it, paper size and printing direction that were saved in Excel file may not be reflected.

Countermeasure

Please select Excel file >Print >Properties and perform setting again

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7. If you open "Properties" when using Universal Print Driver under the following conditions, do not switch the application until the Device Selector is opened.  
When the following symptom1 occurs, please close the Device Selector.

Condition:

32bit Application is installed on Windows 64bit OS.

Procedure/ Symptom

- 1) Open Print> Properties of 32bit application (ex. applicationA). After that, if you switch to another application (ex. applicationB), switched application (applicationB) does not respond.
  - 2) If you close "Print Dialog" of 32bit application (applicationA) under the condition1, 32bit application (applicationA) does not respond.
8. In Dynamic Mode, even if change the port from the Device Selector screen, the port may not be changed when opening Printer properties. (Specification for OS)
9. In Dynamic Mode, if change the port from Printer properties, the job may not be printed to correct port.

Countermeasure

Please change the port from the Device Selector screen.

Occurring PDL

- PS Driver

10. When add the printer Driver using Point&Print and it is connected via IPV6, there is a restriction as below.

When change the Printing Preferences, it is returned to the default setting after printing.

Occurring PDL

- PS Driver

11. On Microsoft Publisher 2007, there is a restriction as below.

After installing Universal Print Driver, if you never use it and print the job from Dynamic Mode, Printing Preferences is not reflected in the printing result.

Countermeasure

- 1) Close Microsoft Publisher 2007.
- 2) Open Printing Preferences of Universal Print Driver from "Printer and Faxes".
- 3) Select the Device from the Device Selector screen and click "OK" button in displayed Printing Preferences screen.

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12. In Citrix Presentation Server 4.5/Citrix XenApp 5.0, there are restrictions as below.

- Dynamic Mode is not supported. Please use Traditional Mode.

- When installing Universal Print Driver to Client PC from Traditional Mode, if Admin Privilege User opens "Printing Preferences" or "Properties" of AutoCreate Driver, the Device Selector screen is started. (Specification for Presentation Server 4.5/ Citrix XenApp 5.0)

It is possible to print the job if select output port and child driver from started Device Selector screen.

If any user except Admin Privilege user performs this, this symptom does not occur.

- If perform the following operation, cannot close the Properties screen of Citrix Universal Print Driver. (Specification for Universal Print Driver of Citrix)

- 1) Create the printer icon from Traditional Mode on the Client PC.
- 2) Connect to the Citrix.
- 3) When open the Properties of AutoCreate Printer icon from "Printer and Faxes", the Properties of Citrix Universal Print Driver is displayed.
- 4) If click "Local Printer Settings" button, the Properties of KONICA MINOLTA Universal Print Driver is displayed. Click "OK".
- 5) Even if click OK or Cancel from the Properties of Citrix Universal Print Driver, the Properties screen is not closed.

If open the Properties from the application, this symptom does not occur.

### Countermeasure

- Please open the Properties setting from the printer icon that created from Traditional Mode of Client PC and perform setting before connecting to the Citrix.

- "Combination" function in "Layout" tab does not work.

Occurring PDL

- PS Driver

13. Any user except the user installed Universal Print Driver or Admin Privilege User cannot open the Device Selector screen.

When open the Device Selector screen, please use "Run as administrator".

### Occurring OS

- Windows Vista

- Windows Server 2008

14. In CorelDRAW Graphics Suite, if select "Collate", it does not work.

### Countermeasure

- 1) Select "File"> "Print".
- 2) Click "References" button and select "Printer Preferences" of Driver.
- 3) Select "Collate" of "Printer Preferences".

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15. When performing the operation below, the following symptom may occur depending on the PC.

- Right-click the printer icon that added from Traditional Mode and click "Properties".  
If perform this operation continuously, the following symptom may occur.
- Multiple Properties screens may be opened.
- Abnormal end of Explorer may occur.
  
- In Dynamic Mode, after selecting the Device from the Device Selector screen, right-click the driver and click "Properties" before Properties screen is displayed.  
If perform this operation continuously, the following symptom may occur.
  
- Multiple Properties screens may be opened.
- Abnormal end of Explorer may occur.
  
- If click "Printer Preferences" of General Tab many times, the following symptom may occur.
- Multiple Properties screens may be opened.
- Abnormal end of Explorer may occur.

### Countermeasure

Close all Properties/Printing Preferences screens and open them again.

When abnormal end of Explorer occurs, perform log off and log on.

16. If "Share the Printer" is selected and the printer icon is created under the following setting, it fails to create the printer icon. (Restriction of OS)

Control Panel > Network and Sharing Center > Change advanced sharing settings > File and Printer sharing  
"Turn off file and printer sharing"

Please select "Turn on file and printer sharing"

### Occurring OS

- Windows Vista
- Windows Server 2008
- Windows 7

17. In Terminal Service/ Remote Desktop, there are restrictions as below.

<TS Easy Print / RD Easy Print>

- Easy Print is not supported.

<Terminal Service/ Remote Desktop (traditional Printer Redirection)>

- The user who is not allowed installation of printer driver on OS security can not use Universal Print Driver.
- If Admin Privilege User opens "Printing Preferences" or "Properties" of printer icon created by Traditional Mode, the Device Selector screen is started. Please select the same model as the printer icon that you are trying to open in the Device Selector screen and close it. And then open "Printing Preferences" or "Properties" of printer icon.
- If you never open printing preferences of the printer icon and printing the job after creating printer icon by Traditional Mode, the job is not printed out.

18. "Overlay (File List Information)" is displayed in Favorite Setting on the following printer drivers.

- KONICA MINOLTA 42 Series PS
- KONICA MINOLTA C35/C35P/mc4750/C25 PS

19. If Properties is opened by "Run as administrator" on Windows Vista, Multiple Device Selector screen can be opened. (Restriction of OS)

20. If printer icon is created by Traditional Mode using the printer driver before this version, the following symptom occurs.

- When update to this version, Paper Type setting changes to default setting if you never open properties of the printer icon.

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21. In "Add Printers from Printer List" function, there are restrictions as below.
- The following symptoms may occur when PC is not rebooted after deleting the created printer icon.  
The printer icon may be created by the deleted model name under the following situation.
    - MFP/Printer A and MFP/Printer B is the same IP address.
    - MFP/Printer A and MFP/Printer is different model.
      1. Delete the printer icon for MFP/Printer A.
      2. Create the printer icon for MFP/Printer B.Result: The created printer icon name is MFP/Printer A
  - The spooler screen may be displayed while creating printer icon.
22. There is following restrictions under Point and Print environment when the added watermark which is not shared and it is set as default on the Server.
- The watermark below the added watermark on the Server is not reflected on client.
23. When the Spin button is clicked continuously, the Spin button may not be displayed.
24. If the printer icon is created by Traditional Mode using "Network Search" under the following situation, the Child driver is not selected correctly. (Restriction of OS)
- The printer icon of MFP/Printer with the same IP address and the same Device Name (Device Name in Machine Setting) exist on the network is created again after create the printer icon.
25. The following symptom occurs under Point and Print environment. (Restriction of OS)  
"It could not access to the printer" or "Operation could not be completed." is displayed and Property of printer icon on client can not be opened under the following situation.
- OS: Windows 7
  - UPD Version: v1.0.1.0/1.2.1.0/1.3.1.0/1.10.0.0/1.11.0.0  
And updating to this version from above version.
  - ":" + "character of A to F" is used for printer icon name.
26. If printer icon is created by Traditional Mode using the printer driver before this version, the following symptom occurs.
- When update to this version, only "A4" or "Letter" is displayed in Paper available screen of properties.
27. Admin Privilege User except Built-in administrator may not be able to open the Device Selector screen on Server 2012.
- If the Device Selector screen can not be opened, please apply the following procedure.
- 1) Open the Print server properties.
  - 2) Click "Add" button in Security Tab and add Admin Privilege User.  
\*If "Add" button is grayed out, please select Security Tab after click "Change Form settings" button in Forms Tab.
  - 3) Enable "Allow" of the followings for the added Admin Privilege User.
    - Manage Printers
    - View Server
    - Manage Server
28. If printing from KONICA MINOLTA 25e by using PS driver, the following symptom occurs.
- Border Line of Combination is not printed correctly (Border Line of Combination cannot be selected in this version).
- Countermeasure  
Please use PCL driver.
29. When you select "Share the Printer" of [Add this Printer to my Printers folder] of Device Selector and try to add the printer icon on Windows Vista, "It fails to share the printer" is displayed and the icon cannot be added.
- Countermeasure  
Please right-click on the printer icon and select "Run as administrator" to open Device Selector.
-



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### 4. Important Notice

1. The reproduction of bizhub20 /20P picture is prohibited.

### 5. How to install/uninstall program

**When a Universal Printer Driver which is older than this version (v2.50.0.0) is installed in your PC, if this version (v2.50.0.0) is updated by Add install, the Printing preferences and the Printer properties will not be displayed correctly. If this version (v2.50.0.0) is installed by the installer (Setup.exe), the following message will be displayed and this version (v2.50.0.0) cannot be installed.  
"The printer driver is not a target for update."**

**Please be sure to install this version (v2.50.0.0) after deleting the older version.**

#### 5.1 How to install

##### a) When using Installer,

If your PC is 32-bit environment, please use "UPDSetup.exe". If your PC is 62-bit environment, please use "UPDSetup64.exe". And follow the onscreen wizard to do installation.

\* In the following environment, cannot use the Installer. Please refer to c) or d).

- Microsoft Cluster Server
- Citrix Presentation Server 4.5
- Citrix XenApp 5.0/6.0

##### b) When install manually

Please perform installation using Add Printer Wizard in Windows.

##### c) When installing Universal Print Driver in Microsoft Cluster Server.

c-1) In the node that creates Cluster, access to the printer folder of Virtual Server from Active Node.

c-2) Install Universal Print Driver using add Printer Wizard.

- \* About the destination port, please specify the optional port.
- \* Please select "Do not share this printer".
- \* In Add Printer Wizard, cannot print the test page.

c-3) Open Properties of Universal Print Driver on the printer folder and display the Device Selector screen.

c-4) Select the device and create the printer icon from Traditional Mode.

\* Using Dynamic Mode is not supported in the Cluster Server.

c-5) Close Properties of Universal Print Driver from "Cancel" button.

c-6) When using Universal Print Driver in Point and Print, set the printer icon that created at C-4) to "share this printer".

##### d) When installing Universal Print Driver to Citrix Presentation Server 4.5, Citrix XenApp 5.0/6.0

d-1) Please perform installation using Add Printer Wizard in Windows.

#### Installation Note

When performing installation using Add Printer Wizard in Windows, "Do you want to print a test page?" is displayed while installing Universal Print Driver. Output port is not decided at this point. Therefore, if select "Yes", the test page is not printed out.

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### 5.2 How to un-install Universal Print Driver

#### a) When un-install using Uninstaller

Please start up "Uninstaller" from any of the following and follow the instructions of dialog box to un-install the driver.

- "Start" menu> "All Programs">"KONICA MINOLTA">"Universal PS"
- "Control Panel"> "Add or Remove Programs"> "Remove" button of "KONICA MINOLTA Universal PS"

#### b) When un-install manually

If un-install the driver completely, please perform the following procedure.

When un-installing Universal Print Driver, if the folders or files are hidden, please change the setting to indicate the files and folders.

1. Delete the printer icon. (for all OS)
  - From [Printers (and Faxes)] folder, right click [KONICA MINOLTA Universal PS] icon and select [Delete].
  - If you added the printer icon from [Add this Printer to my Printers folder] of Device Selector, please delete all added printer icons.
  - After deleting all icons related to Universal Print Driver, go to [file] - [Server Properties] - [Drivers] tab and Remove [KONICA MINOLTA Universal PS].
2. Delete entries from the Registry. (for all OS)
  - [Start] button - [Run...] - input "regedit" - [OK], and start the [Registry Editor].
  - Please delete all the following keys and each sub-key by the Registry Editor. (Differ in PCL and PS. )  
(The existing registry key depends on the version of installed Universal Print Driver.)  
<PS>  
HKEY\_CURRENT\_USER\Software\KONICA MINOLTA\KONICA MINOLTA Universal PS
3. Please delete the following folders.
  - <32 bit OS (Windows XP(x86), Server 2003(x86), Vista(x86), Server2008(x86), 7(x86))>  
C:\WINDOWS\system32\spool\drivers\w32x86\konica\_minoltauniverfe33
  - <64 bit OS (Windows XP(x64), Server 2003(x64), Vista(x64), Server2008(x64), 7(x64), Server2008R2)>  
C:\WINDOWS\system32\spool\drivers\x64\konica\_minoltauniverfe33
4. Delete the UPD child drivers.
  - OS might grip the file. Please delete the following folders after restart PC.  
  
<32 bit OS (Windows XP(x86), Server 2003(x86), Vista(x86), Server2008(x86), 7(x86))>  
C:\KMUPDcache\x86\PS  
<64 bit OS (Windows XP(x64), Server 2003(x64), Vista(x64), Server2008(x64), 7(x64), Server2008R2)>  
C:\KMUPDcache\x64\PS

## 6. How to check version information

1. Open "Printers and Faxes".
2. Select "KONICAMINOLTA Universal PS".
3. Right click on the icon and select "Properties".
4. Click "Details" button.
5. Click "Option" button.
6. Click "Version Information".

\* Company names and product names in this document are the registered trademarks for respective companies.

\* 7z.dll that is a part of 7-Zip program is included in this printer driver.

7-Zip is provided under the license of GNU LGPL.

7-Zip can be obtained from [www.7-zip.org](http://www.7-zip.org).

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**Date:** 11/05/10  
**From:** SSD  
**Subject:** New Enhancements to Warranty Solution  
**Service Communications:** 128

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In our continuing efforts to simplify our warranty claim process, Konica Minolta Service Operations is pleased to inform you that several new functional enhancements have been implemented to the KMBS Warranty Solution.

Specifically, we have modified the online warranty claim form with a “**Get Invoice**” option to make it easier to submit claims to KMBS. This enhancement offers Dealer Users new functionality that auto-populates the Konica Minolta invoice number associated with the product serial number as entered for an original part warranty claim. This feature is available for all standard and 3-Year Program warranty claims for advance-exchange or credit as submitted in [mykonicaminolta.com](http://mykonicaminolta.com).

As of today, KMBS Service Operations has made several other enhancements to the online Warranty Solution and they are detailed below.

The changes are being implemented based on feedback received from our Dealer Channel users. KMBS Service Operations welcomes our Business Partners continued feedback on our warranty programs in order for us to provide the proper tools for a successful partnership.

Please note that replacement part(s), and supply items submitted as Yield & Performance Protection claims, are not enabled under the “**Get Invoice**” enhancement.

Thank you for your continued support.

**Service Operations**  
**Konica Minolta Business Solutions, Inc.**

## 1. Get Invoice

When you are submitting a warranty claim **for an original part failure** on a unit under warranty you will no longer have to provide an invoice number. When you select original part on the claim form and enter the product serial number, the invoice will be auto populated.

Please note: The **MAP Account** radio button has been removed.

Konica Minolta Warranty Services - Windows Internet Explorer

http://testkmbs.konicabt.com/warrantyclaims/home.aspx

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### KMBS Warranty Services

#### Warranty Advance Exchange RA/Claim

##### New RA/Claim

\* Part Type:  Original  Replacement **Select: Original Part Type**

\* Part Damaged in Shipping:  Yes  No

\* Sold to:

\* Shipto:

\* Part No:

\* Overnight Shipping:  Yes  No

\* Failure Date:  (mm/dd/yyyy)

\* Failure Reason:

\* Machine Install Date:  (mm/dd/yyyy)

\* Email:

Please use a semicolon(;) to separate multiple emails.

\* Contact Name:

Tech Support Call Id:

Technician's Name:

Customer PO No:

Problem/Comments:

Konica Minolta Warranty Services - Windows Internet Explorer

http://testkmb: konicabt.com/warrantyclaims/home.jspx

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
You are here: Home > KMBS Warranty Services [Logout](#)

**KMBS Warranty Services**

**Warranty Advance Exchange RA/Claim** [Menu](#) | [Next](#)

**New RA/Claim**

\* Part Type:  Original  Replacement

\* Serial No: A02E010018863  **Enter Product SERIAL NUMBER and click "Get Invoice Details"**

\* Invoice No:

\* Model Description:

\* Soldto:

\* Shipto: --Select Shipto--


\* Part No:

\* Overnight Shipping:  Yes  No

\* Failure Date: (mm/dd/yyyy)

\* Failure Reason: --Select Failure Reason--

\* Machine Install Date: (mm/dd/yyyy)

\* Email: jrooney@kmb: konicaminolta.us   
Please use a semicolon(;) to separate multiple emails.

\* Contact Name:

Konica Minolta Warranty Services - Windows Internet Explorer

http://testkmb: konicabt.com/warrantyclaims/home.jspx

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**Warranty Advance Exchange RA/Claim** [Menu](#) | [Next](#)

**New RA/Claim**

\* Part Type:  Original  Replacement 

\* Serial No: A02E010018863 

\* Invoice No: 34456268  **Invoice Number will auto populate. Continue submitting rest of the required information to complete your claim**

\* Model Description: BIZHUB C353 PRI

\* Soldto:

\* Shipto: --Select Shipto--


\* Part No:

\* Overnight Shipping:  Yes  No

\* Failure Date: (mm/dd/yyyy)

\* Failure Reason: --Select Failure Reason--


\* Machine Install Date: Feb 17, 2010

\* Email: jrooney@kmb: konicaminolta.us   
Please use a semicolon(;) to separate multiple emails.

\* Contact Name:

## 2. Additional Text added to Packing Slip

In addition to the RA Number currently displayed on the KMBS Packing List of your Warranty Parts Shipment, you will now find the **Model, Serial Number, Contact Name and Tech Name** also printed on the packing list. This should assist you in identifying and distributing warranty parts to your technicians. This information will also be printed on the KMBS invoice and credit memos.

PRODUCT PACK LIST			Date:	
 <b>KONICA MINOLTA</b>	Order Number:	PO #:	Page: 1 of 1	
	311131108	700184374	Ship Date: 11/03/2010	
			Delivery #:	
			3006058455	
Invoice To:	INC	Order Date:	11/03/2010	
		Payment Terms:	0008: NET 30 DAYS	
		Freight Terms:	Freight Prepaid No Charge	
		F.O.B.:	KMBS Loading Dock	
		Salesperson:		
		Waybill:		
		Ship Via:	UPS 2ND DAY 4:30 p.m. (BLUE)	
		Order Type:	Subs.Deliveries	
		Required Pickup/Delivery:	11/03/2010	
Ship From:	Intermediate Consignee:			
KONICA MINOLTA BUSINESS SOLUTIONS U.S.A. INC. 420 INTERNATIONAL BLVD SUITE 300 BROOKS KY 40109				
KMBS warranty replacement order for claim RA # 700184374. Thank you. Model: BIZHUB 222 Serial No: A11W011009924 Contact Name: Melissa Technician's Name: Izzy Sanchez				
0001	 A02FM40002	Description Power supply	CN 1 1	Weight/ 2.778
			Totals:	1 1 0 2.778
NMFC Summaries:		Rate	Weight	
N/A		0	3	
Signature: _____				
Date/Time: _____				
Meter Reading: _____				

Additional Claim Information Details...

### 3. Outbound Order Number and Core Return Address Added to Warranty Claim Notification eMail Messages

In order to assist in tracking your replacement warranty parts, Service Operations has added the **KMBS Sales Order number** to the e-mail notifications from the Warranty Solution. Further, the defective core return KMBS Ship-To address has also been added to all emails for easy reference.

#### Example:

Dear KMBS Business Partner:

We have received your warranty claim RA # 700184378 with the following information:

Claim Type: Warranty Advance Exchange RA/Claim

Bill to KMBS Customer Acct No: 12546

KMBS Customer Name: KMBS

Address: 101 Williams Drive

Ship to Acct: 25489

Outbound Sales Order: 3000031115

Model Description: BIZHUB 222

Serial No: A11W011000000

Part Type: Original

Part No: A02FM40002

Part Description: Power supply

Overnight Shipping: No

Part Damaged in Shipping: No

SSD T/S - CRC Ticket No.:

Failure Reason: Mechanical Failure

Problem/Comments: Please contact KMBS Service Operations at [ServiceOps1@kmb.konicaminolta.us](mailto:ServiceOps1@kmb.konicaminolta.us) for questions on this claim.

**\*\* Please do not reply to this message. \*\***

All warranty, YPP, FOC, and Special Program Core returns must be shipped to:

KMBS Warranty Recovery Center

31 Elkay Drive

Chester, NY 10918

Please direct any questions on these new warranty enhancements to the Service Operations Team at [serviceops1@kmb.konicaminolta.us](mailto:serviceops1@kmb.konicaminolta.us). Thank you.

**Subject:** bizhub C3110 Technical Training Announcement

**Technical Education:** 433

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The Technical Training and Development Group of Konica Minolta Business Solutions U.S.A., Inc. is pleased to announce Web Based Technical Training for the bizhub C3110.

The bizhub C3110 is an A4 (letter-legal-size) all-in-one color printer/copier/scanner that has enhanced network and solution support, additional i-Option support, and a reduced environmental and physical footprint.

Some of the improved features include:

- Improved account management and authentication support
- Support for special printing needs, such as Barcode, Unicode, OCR and ThinPrint, with i-Option
- Support for PageScope Enterprise Suite

The web based technical training is provided in the form of a learn track and consists of two modules and an Exam.

- bizhub C3110 Engine WBT
- bizhub C3110 Controller WBT
- bizhub C3110 Certification Exam

It should take approximately 3 hours to complete the training.

To register for the bizhub C3110 Technical (WBT) learn track :

1. Log in to **MyKonicaMinolta.com**
2. Click on the **Learning** tab
3. Enter "**bizhub C3110**" in the search box located in the upper right hand corner and click Search
4. Click on the register button next to 'bizhub C3110 Technical (WBT)' and follow the on-screen instructions

Managers may also use the Group Registration option by selecting the Reporting/Approvals link to register their employees.

Please contact Technical Education for questions related to Technical Training.

Email – [techtrain@kmb.konicaminolta.us](mailto:techtrain@kmb.konicaminolta.us), Phone – (860)683-2402 Ext. 2198,

Website - [Technical Training Information Center](#)



**Subject:** Startup Parts

**bizhub C3110:** 001

The following table contains the recommended startup items for the bizhub C3110 model. Multiply the quantities recommended by the number of machines in the field to aid in determining your overall stocking level.

Parts and supplies can be ordered using standard ordering procedures.

## bizhub C3110 Startup Parts List



For replacement procedures, refer to the Field Service Manuals.

Section	Description	Item No.	Qty.	Replacement Interval
<b>Main Body</b>				
<b>Processing section<sup>1</sup></b>	Imaging unit (C), IUP23C	A7330KF	1	30,000
	Imaging unit (M), IUP23M	A7330EF	1	30,000
	Imaging unit (Y), IUP23Y	A73308F	1	30,000
	Imaging unit (K), IUP23K	A73303F	1	30,000
	Toner cartridge (C), TNP51C	A0X5435	1	6,000
	Toner cartridge (M), TNP51M	A0X5335	1	6,000
	Toner cartridge (Y), TNP51Y	A0X5235	1	6,000
	Toner cartridge (K), TNP51K	A0X5135	1	6,000
<b>Transfer section<sup>1</sup></b>	Transfer belt unit	A1480Y1	1	100,000
	2 <sup>nd</sup> transfer roller	A1480Y2	1	100,000
	Waste toner bottle	A1AU0Y1	1	30,000
<b>Paper feed section<sup>2,3</sup></b>	Tray 1 feed roller	4138303202	1	300,000
	Tray 1 separation roller	4658015106	1	300,000
	Manual tray feed roller	4138303202	1	300,000
	Manual tray separation roller	4658015106	1	300,000
<b>Fusing section<sup>1</sup></b>	Fusing unit	A148010	1	100,000

1. Supply item. Replacement intervals are approximate, based upon usage characteristics including copy/print density and coverage.
2. Replace all rollers in this group at the same time.
3. Items intended for replacement by technician. All other items are intended for consumer replacement.

**Subject:** SSD Mobile Access: It's Not Just for Smartphones

**Service Communication:** 171

In response to a number of inquiries, we are pleased to announce that the hugely popular SSD Mobile Access is not just for mobile devices. You can access all of the features of Mobile Access from any desktop or laptop computer – just like you would from a smartphone.

Using a computer gives you the advantages of working with larger screen real estate, making it even easier to see information at a glance, minimizing scrolling. And, of course, you can keep all of your other application windows running to help you maintain an efficient work environment.

SSD Mobile Access includes the following modules\*:

- |                            |   |                   |
|----------------------------|---|-------------------|
| ✓ Search the Knowledgebase | ✓ Open Tickets /<br>All Open Tickets (for Managers) | ✓ MyKonicaMinolta |
| ✓ Help                     | ✓ Suggestions                                       | ✓ Warranty        |
| ✓ Mobile Manuals           | ✓ Schedule Me                                       | ✓ DSM Connect     |
| ✓ vCare Search             | ✓ Contact Center Hold Times                         | ✓ View Me         |

*\* Access to all modules requires a valid login on MyKonicaMinolta.com. All Open Tickets is restricted to authorized managers. Modules are subject to change.*



To reach SSD Mobile Access from a computer, simply point your browser to:

<http://onyxweb.mykonicaminolta.com/kb>

We suggest that you bookmark this location for easy future access.

*Note:* When using SSD Mobile Access from a computer, the heading is presented as “SSD Web Access”. Although both modules provide access to the same information, the “mobile” version has been optimized to provide the best experience when using small screens typically found on smartphones and tablets.



**Subject:** HTML version Service Manuals now accessible directly from MyKonicaMinolta.com

**Service Communication:** 161

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Have you ever gotten frustrated by the time required to download a service manual just to answer a simple question? Or maybe, you have a lack of hard drive space and don't want to download manuals? What about referring to a manual that you have saved to your laptop, only to find out later that your version manual was out of date and the procedure has been updated or the setting changed?

Well, welcome to the future of service documentation for Konica Minolta Business Solutions, U.S.A., Inc.

Service Communications is pleased to announce that HTML version service manuals are now available from MyKonicaMinolta.com.

These HTML version manuals are optimized for access on laptops and PC's. They are accessed via MKM.com in the same manner as previous versions; pages can be viewed quickly without downloading; and since you are not required to save them locally, you never have to worry about versioning again! Let us take care of that for you!

Whenever you access HTML service manuals online you will quickly and easily have access to the latest version.

Now, for those of you that resist change or have the need to store files locally, rest assured that you still can – but beware of those versioning issues!

As a reminder, mobile version HTML manuals that are optimized for the small screens on smartphones, and similar devices are also available through the SSD Mobile Applications announced in Service Communications Bulletin #8107. To access Mobile Manuals, you must use the **Opera Mobile** browser, you must be logged in to **MKM.com** and you must point your browser to <http://onyxweb.mykonicaminolta.com/kb>.

**Subject:** One Stop Product Support - Improvements and Enhancements

**Service Communication:** 174

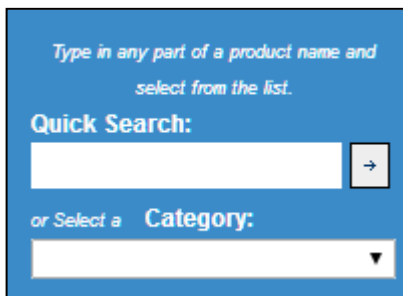
*This bulletin supplements Bulletin #8277 dated 2/28/12, describing the many improvements to One Stop Product Support.*

Since its introduction in February, 2012, the One Stop Product Support page has undergone many changes to make it easier to use and to provide access to a broader array of resources. As a result, One Stop has become much more of a single point of entry to obtain relevant information to help you support Konica Minolta products. Following are some of the most significant changes.

## HOW DO YOU WANT TO FIND INFORMATION?

One Stop is designed to make it easy for you to find the information that you need. Understanding how One Stop is structured can help speed you to the resources that will best meet your needs.

### Technical, by Model



Type in any part of a product name and select from the list.

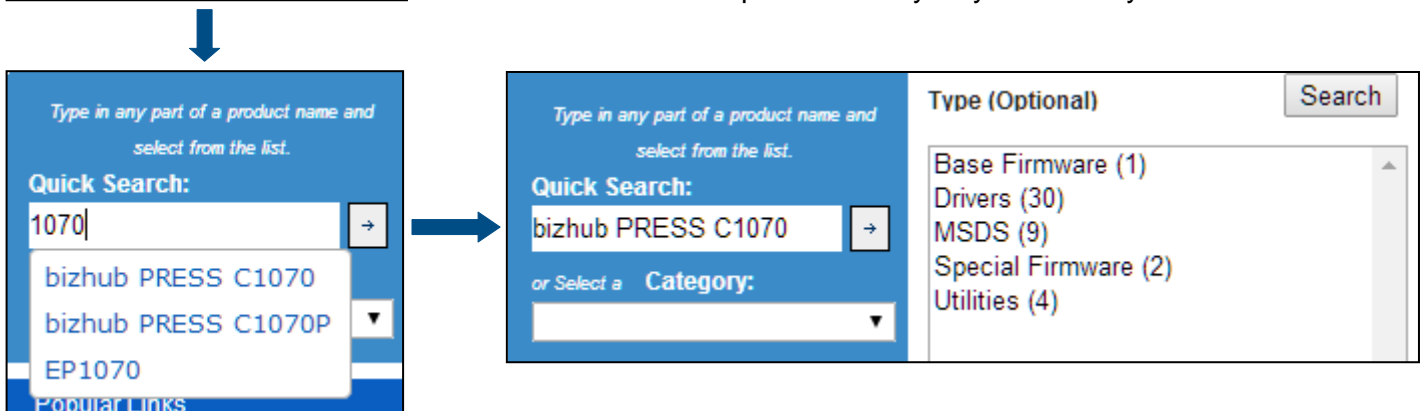
Quick Search:  →

or Select a Category:

If you are thinking about a particular model, you'll appreciate the new Search box.

If you know the model number, just type it – or a portion of it – into the **Quick Search** box. When you click the arrow or press enter, you'll be presented with a list of models that meets your criteria.

Click on the model, and then start selecting information from the pick lists that follow. This is a quick and easy way to narrow your search.



Type in any part of a product name and select from the list.

Quick Search: 1070 →

- bizhub PRESS C1070
- bizhub PRESS C1070P
- EP1070

Popular Links

Type in any part of a product name and select from the list.

Quick Search: bizhub PRESS C1070 →

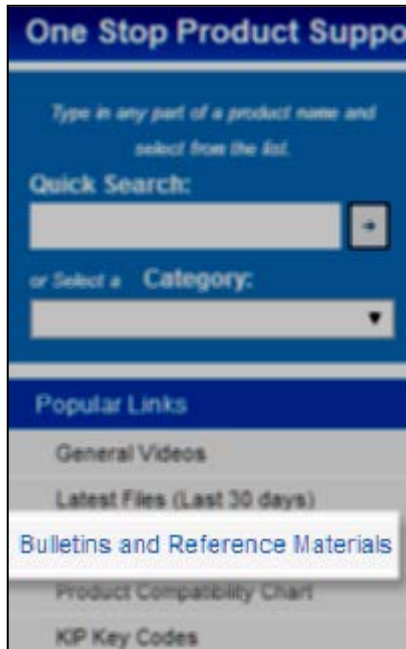
or Select a Category:

Type (Optional) Search

- Base Firmware (1)
- Drivers (30)
- MSDS (9)
- Special Firmware (2)
- Utilities (4)

If you're not sure about the model, you can select a product Category, and then pick your model from the list presented.

[Technical and More, by Type of Information](#)



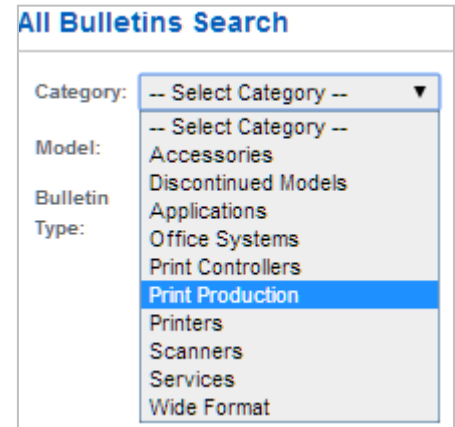
A new menu item gives you express access to the complete library of **Bulletins and Reference Material**. Clicking this link, located on the left side of the screen, will take you to a page with two important sectors: Product Reference Materials, and All Bulletins Search.

**All Bulletins Search**

This selector guides you through Konica Minolta's extensive collection of bulletins – more than technical bulletins – to help you find just what you're looking for.

After narrowing your choices by product category and model (or even Application), you can choose from several Bulletin Types:

- General (Marketing)
- Technical
- Service Communication
- Training



**Product Reference Materials**

A wide variety of reference materials is available to help you understand Konica Minolta products and services so that you can better support your customers.

**Product Reference Materials**

The Product Reference Library has the latest product support information. To begin your search first select product category, model, reference material and document type using the boxes below.

[Click here to view the category matrix](#)

Category	Model	Reference Material	Doc Type
-- Select Category -- Accessories Applications Office Systems Print Controllers Print Production	OpenText FaxPress OpenText RightFax OpenText RightFax Express Pagescope PageScope Address Book PageScope Box Operator	Product Materials Drivers & Downloads	Competitive Information(1) Job Shops(4) Presentations(2)

<< < ... 1 ... > >>

Sort by: [Date](#) / [Name](#) / [Size](#) Show: 10 / 20 / All

**PageScope Overview for the bizhub PRO 1050/ 0.92 MB**  
This is the bizhub PRO 1050 PageScope powerpoint overview.  
 Modified: 12/13/2004

**PageScope PowerPoint/ 3.27 MB**  
This is the PageScope powerpoint.  
 Modified: 01/03/2005

Find what you're looking for by selecting the items in the Category, Model, Reference Material, and Doc Type fields. When you have drilled down, you will be presented with the final documents to choose from.

The Category Matrix shows the type of information available via this powerful information source.

<b><u>New Product Marketing Materials Categories</u></b>				
<b>Environmental Declarations</b> Environmental Declarations	<b>Artwork &amp; Marketing</b> Posters Product Images & Logos Copy points Launch material price/resource list Reviewer's tip sheet Web banner Ad mats / mailers Line Art Customizable Word Flyer	<b>Competitive Info</b> Competitive guides Side-by-Side competitive Competitive reports TCO Calculators	<b>Job Shops</b> All Job Shops	<b>Print Samples</b> Digital print sample files Demo kits Banner Sample Files
<b>Spec &amp; Config Sheets</b> Configuration Sheets Specification Sheets Sell Sheets Data Sheets Specification & Installation Guide	<b>Awards</b> Any industry awards	<b>Brochures</b> Business Solutions at a glance i-Option Sell Sheet XPS/DPWS Brochure Power for IT Prof. Brochure bizhub Office Brochure Product Brochures (all brochures that cross product lines)	<b>Case Studies &amp; White Papers</b> Any White Papers Case Studies	<b>Presentations</b> Product PowerPoint files (.ppt) Flash Multimedia Files (.swf)
<b>Sales Tools</b> All Media Guides Warranties Basic Operations FAQs Product and Sales Guide Distribution Data Sheet Release Notes	<b>Manuals</b> Installation Manuals Parts Catalogs User Guides Service Manuals Miscellaneous			

**Subject:** Successful Searching on MyKonicaMinolta.com

**Service Communication:** 175

*It happens to all of us more often than we would like: You want to refer to a document that you know you saw sometime in the past, but you can't find it. Perhaps it involved pricing, or a revised technical procedure, or a policy. The question you ask yourself is, "Where did I see it?"*

There is a very good chance that what you are looking for is available on MyKonicaMinolta.com. There is an enormous amount of data there for the taking. But actually finding the one thing you need can be a daunting task. It's possible to spend many minutes – even hours – trying to find a particular piece of information, like finding the proverbial needle in a haystack.

MyKonicaMinolta.com has a terrific SEARCH feature designed to help you find just what you need in a matter of minutes – or even seconds – to help you be more productive, make better decisions, and impress those around you. Use the explanation and examples below as a guide to help you look like a hero when it comes to finding information!

## Where's the Search?

The Search box is located near the top right corner of the screen when you first logon to MyKonicaMinolta.com. Simply type in your search term and press Enter (or click the "Go" button).



By design, MyKonicaMinolta.com will search all of the sources listed on the menu bar: Sales, Marketing, Service, Learning, etc. and will show results based upon your login credentials.

## Search Tips

- **Use simple terms.** You usually will get the best results by using simple search terms. For example, searching for "spec" will give return more results than "specification".
- **Be sure you spell things correctly.** A simple mistake such as "protectin" instead of "protection" will make a very large difference in the search results.
- **Complex terms may not get you what you want.** If you're looking for information about surge protection, you will likely get better results with "power" instead of "power filter" or "power protection", because different document may use different terminology.

## What do I get when I search?

When you do an initial search, you will see a screen that shows results from each of the sources, like this:

The screenshot shows the Konica Minolta search interface. At the top, there's a navigation bar with links like Home, Sales, Marketing, Service, Learning, Logistics, Products, Pricing, Rewards, ITS, and KMBS411. A search bar contains the term 'power'. Below the search bar, results are grouped into three sections:

- 2 results found in Products**: Showing 1 - 2. Results include 'bizhubPRO 1600P2000P2500P Hovmand Power Lift External Service Manual' and 'magicolor 8650 Installation Guide - multilingual'.
- 29 results found in Sales**: Showing 1 - 5. Results include 'Innovolt Power Filters TUPSS Matrix', 'ESP Power Filters TUPSS Matrix', '13-DB-100 - ESP Power Filters', 'Business Development Strategies - Power Up Jan. 2011', and '09-DB-062 bh PRO 1200 Space and Power Requirements'.
- 18 results found in Marketing/Advertising**: Showing 1 - 5. Results include 'ESP BEI Services Power Protection Study', 'ESP SurgeX Power Events Meter Study', and 'ESP Power Filter Matrix'.

- Results are grouped by source. If there is nothing from a particular source that matches your search term, that source will say “No results found in xxxx.”
- Simply click on a document link to open that document in a new tab or window (depending upon your browser settings).

## How many results are there?

This close-up highlights the result counts for two sources. The 'Products' section shows '2 results found in Products' and the 'Sales' section shows '29 results found in Sales'. Red boxes and arrows point to these specific headers.

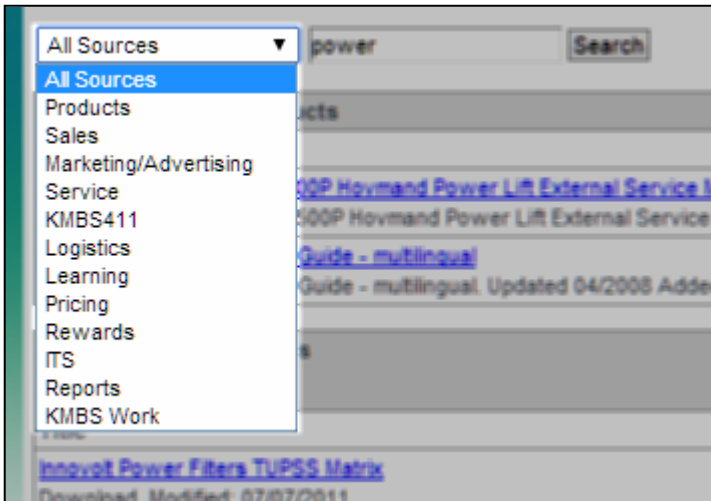
The number of results from each source is shown in the header for that source. Initially, up to 5 results will be displayed.

If more results are available, you can click the arrow at the right side of the header to display the next group.

This close-up highlights the pagination arrow in the 'Sales' section header. A red box and arrow point to the right-pointing arrow next to the text 'Showing 1 - 5'.



### Is there a faster way to browse results?



Based upon the original search results, you might decide that what you are looking for is mostly likely to be in just one of the sources.

If that's the case, you can confine your search to that one source by selecting it from the drop-down list.

Re-run your search after selecting the source.

You can repeat your search for different sources as often as you like.

When you search a single source (instead of All Sources), you will get a much larger list of documents that may have the information you're looking for.

A screenshot of the Konica Minolta website's search results page. The top navigation bar includes the Konica Minolta logo and a search bar. Below the navigation bar, there is a search filter dropdown set to 'Service' and a search input field containing 'power'. A red box highlights the 'Service' dropdown and the search input. Below the search bar, a message states '49 results found in Service'. To the right, another red box highlights a pagination control showing 'Showing 1 - 20'. The main content area displays a list of search results, each with a title and a brief description. The results include various parts manual updates and guides related to power supply, power source, and power cord components.

In this example, the search for “power” was confined to the source “Service”.

Depending upon your topic and your search terms, there may even be multiple pages of these results. However, this list can be much faster to peruse than the short 5-item “All Sources” list.

***What makes MyKonicaMinolta.com's Search feature so powerful?***

The Search feature doesn't confine itself just to what shows up on a few web pages. Instead, it searches a great number of repositories to find relevant information. In any large corporation, information tends to become "siloed" in different areas in order to meet business needs. MyKonicaMinolta.com leverages that structure to pick out the most meaningful information.

Note that not every link will take you directly to a specific document. For some things, you will be taken to an embedded web function, such as the firmware and driver selectors in One Stop Product Support, where you can further refine your query.

**Subject:** National Solutions Group

**Service Communication:** 177

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The Konica Minolta Solutions Support Division SSD is pleased to announce the formation of the National Solutions Group, which is solely dedicated to providing technical assistance for Solutions in the form of Pre-sale, Installation and Post-sale support.

NSG is an integrated team comprised of both regional field specialists and subject matter experts working in our Windsor-based labs. The mission for the NSG is to offer the highest, most efficient level of Solutions Support, and to do so on a national level.

In addition to offering World Class integration services, NSG has the ability to escalate both internal and external customer issues directly to our various Solutions vendors as well as Konica Minolta, Inc., Japan whenever necessary. The NSG team is prepared to provide callers with efficient phone support, remote support and field support with a higher level of expertise. Our goal is to provide a top-flight solutions integration experience for our dealers and branches and, most importantly, your customers.

Additionally NSG has established a faster and easy communication channel, using a new toll free number dedicated for Solutions **only**. The toll-free NSG number allows callers to have access to a highly trained Solutions Support Advisor. If your solution is contractually supported by the vendor, your call will be routed directly to them.

**Please contact NSG at 855-315-8324 for all your Solutions support.**

We look forward to helping you with your Solutions support needs!

**Subject:** Solutions Support: New Dedicated Phone Number

**Service Communication:** 178

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We are pleased to announce a new toll-free telephone number dedicated to support of the many solutions that are sold and supported by Konica Minolta.

Effective May 27, 2014, all calls for **Solutions Support** should be directed to the new telephone number:

**855-315-8324** (toll free)

Using this new toll free number will help speed you on your way to getting the answers you need.

- You have only **one number** to call for support on **any solution**.
- **Solutions supported directly by the Contact Support Center (CSC)**

These calls will be routed to our specialized tiered Solutions Group within the CSC. These solutions include applications such as PageScope, eCopy, Equitrac, Dispatcher Phoenix, and others. Normal training requirements apply.

- **Solutions supported by vendors**

Calls involving solutions that the CSC does not support directly will be routed automatically to the appropriate vendor support resource. You no longer need to search for a particular resource's phone number.

**Subject:** Critical Accident Reporting (CAR) Procedure

**Service Communication:** 180

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On rare occasions, an extraordinary incident which merits additional follow-up by Konica Minolta may occur. These incidents include those where a machine apparently exhibits smoke or flame, or where personal injury or property damage occurs. Konica Minolta must follow up on incidents of this nature on a timely basis, even if caused by human error, to identify specific causes of machine failure and to develop solutions or corrections to prevent future occurrences.

In an instance of this nature, **notify the SSD Contact Support Center (CSC) at 800-825-5664 as soon as you learn about the situation.** The CSC will provide guidance regarding proper handling and resolution of the situation. The CSC responsibility includes obtaining information from the field and communicating with Konica Minolta management, branch and dealer personnel, and end users, as appropriate.

## IMPORTANT

**In order to protect Konica Minolta's interests, it is important that you call the CSC *before rendering any service* on a machine involved in a Critical Accident.**

SSD will assess the incident and advise the technical manager of any actions that may be required, such as obtaining the service history, impounding the machine, or providing specific parts for analysis.

Incidents that qualify as Critical Accidents include the following, which is only a partial list:

- Bodily injury (burns, electrical shock, health concerns)
- Property damage
- Smoke, flame, scorching
- Offensive odor
- Abnormal heat generation
- Reports of extreme or extensive damage
- Suspicion of product safety

A complete description of situations that are covered under the CAR procedure can be found on pages 2-19 through 2-22 in the SSD Policies and Procedures, which can be found on One Stop Product Support on MyKonicaMinolta.com using this link:

<http://onyxweb.mykonicaminolta.com/OneStopProductSupport?appMode=Internal>.



Product Name: TONER (Black)

Prepared Date: 13-Nov-2008

Revised Date: 31-Mar-2014

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: TONER (Black)

used for: magicolor4750DN/4750EN/3730DN/3730N, bizhub C35/C35P/C25, C3110/C3100P

Supplier Identification:

Konica Minolta Business Solutions U.S.A., Inc.

100 Williams Drive, Ramsey, New Jersey 07446, U.S.A.

Telephone: 201-825-4000

Emergency Telephone No.

CHEMTREC

Telephone: 1-800-424-9300

2. COMPOSITION / INFORMATION ON INGREDIENTS

Substance [ ]

Preparation [ X ]

Major Ingredients:

[Generic Name]	[CAS No.]	[%]
Styrene acrylic resin	+++	75-85
Wax	+++	10-20
Carbon black	1333-86-4	1-10
Amorphous silica	7631-86-9	1-10

+++ : Supplier's confidential information

Hazardous Ingredients:

Chemical Name: Carbon black (1-10%)

CAS No.: 1333-86-4

OSHA Z-Tables(USA): 3.5mg/m3

NTP(USA): Not listed

California Proposition 65(USA): Listed

Symbol(EC): Not listed

DFG-MAK(GER): III 3B

EEC-No.: 215-609-9

ACGIH-TLV(USA): 3mg/m3

IARC Monographs: Group 2B

R-Phrase(EC): Not listed

Worksafe-TWA(Austl): 3mg/m3



---

Product Name: TONER (Black)

Prepared Date: 13-Nov-2008

Revised Date: 31-Mar-2014

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### 3. HAZARDS IDENTIFICATION

Emergency Overview: Black powder (mean dia. is 5-10um by volume ).  
Almost odorless.

Classification: Not classified as dangerous. (1999/45/EC)

#### Most Important Hazards and Effects of the Products

Ingestion Effect: None currently known.

Inhalation Effect: None currently known. Minimal respiratory tract irritation may occur as with exposure to large amount of any non-toxic dust.

Eye Effect: None currently known.

Skin Effect: None currently known.

Chronic Effects: Prolonged inhalation of excessive dusts may cause lung damage. Use of this product, as intended, does not result in inhalation of excessive dust.

Environment Hazards: No data are available on the adverse effects of this product on the environment.

Specific Hazards: Dust explosion (like most finely divided organic powders)

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### 4. FIRST-AID MEASURES

Ingestion: Wash out mouth with water. Drink one or two glasses of water. If symptoms occur, get medical attention.

Inhalation: Move victim to fresh air immediately. If symptoms occur, get medical attention.

Eye Contact: Immediately flush eyes with plenty of water for 15 minutes. If symptoms occur, get medical attention.

Skin Contact: Wash with water and mild soap.

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### 5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media: CO<sub>2</sub>, water spray, foam and dry chemical

Extinguishing Media to Avoid: Full water jet

Fire and Explosion Hazards: If dispersed in air, like most finely divided organic powders, may form an explosive mixture.

Protection of Firefighters: Use self-contained breathing apparatus (SCBA).

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### 6. ACCIDENTAL RELEASE MEASURES

Personal Precautions: None

Environmental Precautions: None

Methods for Cleaning Up: Wear personal protective equipment (See Section 8). Vacuum or sweep material and place in a bag and hold for waste disposal. Use vacuum equipped with High Efficiency Particulate Air (HEPA) filter. Vacuum should be electrically bonded and grounded to dispel static electricity. To avoid dust generation, do not sweep dry.

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Product Name: TONER (Black)

Prepared Date: 13-Nov-2008

Revised Date: 31-Mar-2014

**7. HANDLING AND STORAGE**

Handling

- Technical Measures: None
- Precautions: Do not breathe dust. Avoid contact with eyes.
- Safe Handling Advice: Try not to disperse the particulates.

Storage

- Technical Measures: None
- Storage Conditions: Keep container closed. Store in a cool and dry place. Keep out of reach of children.
- Incompatible Products: None
- Packaging Materials: Bottles or Cartridge designated by Konica Minolta.

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

Engineering Measures

- Ventilation: None required with intended use.

Control Parameters(As total dust)

- ACGIH-TLV(USA) : 10mg/m3 (Inhalable particles), 3.0 mg/m3 (Respirable particles)
- OSHA-PEL(USA): 15mg/m3 (Total dusts), 5.0 mg/m3 (Respirable fraction)
- DFG-MAK(GER): 4mg/m3 (Inhalable fraction), 1.5mg/m3 (Respirable fraction)
- Worksafe-TWA(Austl.): 10mg/m3

Personal Protective Equipment

Not required under normal conditions. For use other than in normal operating procedures (such as in the event of large spill), goggles and respirators may be required.

- Hygiene Measures: Wash hands after handling.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

Appearance

- Physical State: Solid Color: Black
- Form: Powder (mean dia. is 5-10um by volume)

- Odor: Almost odorless
- PH: Not applicable
- Boiling Point(°C): Not applicable
- Melting Point(°C)/[F]: Around No data available /[] (Softening Point)
- Flash Point(°C): Not applicable
- Ignition Temperature(°C): No data available
- Explosion Properties: No data available
- Vapor Pressure: Not applicable
- Specific Gravity: 1.2
- Solubility: Insoluble in water.
- Partition Coefficient, n-Octanol/Water: Not applicable





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Product Name : TONER (Black)

Prepared Date : 13-Nov-2008

Revised Date : 31-Mar-2014

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## 10. STABILITY AND REACTIVITY

Stability:	Stable except above 200C(392F).
Hazardous Reactions:	Dust explosion, like most finely divided organic powders.
Conditions to avoid:	Electric discharge, throwing into fire.
Materials to Avoid:	Oxidizing materials.
Hazardous Decomposition Products:	CO, CO <sub>2</sub> , NO <sub>x</sub> and smoke.
Hazardous Polymerization:	Will not occur.

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## 11. TOXICOLOGICAL INFORMATION

### Acute Toxicity:

Ingestion(oral), LD50(mg/kg):	>2500(Rat)
Dermal, LD50(mg/kg):	No data available
Inhalation, LC50(mg/l):	>5.10(Rat,4hour)

(This was the highest attainable concentration.)

Eye irritation:	Non irritant(Rabbit)
Skin irritation:	Non irritant(Rabbit)

Skin sensitizer: Non sensitizer (Guinea pig)

Local Effects: see Chronic Toxicity or Long term Toxicity

### Chronic Toxicity or Long Term Toxicity:

In a two-year inhalation study of chronic toxicity and carcinogenicity using a typical toner in rats, there were no lung changes at all in the lowest exposure level (1mg/m<sup>3</sup>), the most relevant level to potential human exposures. A minimal to mild degree of fibrosis was noted in 22% of the animals at the middle exposure level (4mg/m<sup>3</sup>), and a mild to moderate degree of fibrosis was observed in 92% of the rats at the highest exposure level(16mg/m<sup>3</sup>). The lung changes observed in the higher exposure groups are interpreted in terms of "lung overloading", a series of generic responses to the presence of large quantities of respirable, insoluble and relatively benign dusts retained for extended time periods in the lungs. Lung tumor frequency was unchanged among rats exposed to toner at the three exposure levels, and for air-only control rats.

### Carcinogenicity

The IARC reevaluated carbon black as a Group 2B carcinogen (possible human carcinogen). This evaluation is given to Carbon Black for which there is inadequate human evidence, but sufficient animal evidence. The latter is based upon the development of lung tumors in rats receiving chronic inhalation exposures to free carbon black at levels that induce particle overload of the lung.

Studies performed in animal models other than rats have not demonstrated an association between carbon black and lung tumors. Moreover, a two-year cancer bioassay using a typical toner preparation containing carbon black demonstrated no association between toner exposure and tumor development in rats.

Mutagenicity:	Negative(AMES test)
Teratogenicity:	No data available

(\* = Based on data for other Konica Minolta Products with similar ingredients)

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Product Name : TONER (Black)

Prepared Date : 13-Nov-2008

Revised Date : 31-Mar-2014

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## 12. ECOLOGICAL INFORMATION

No data are available on the adverse effects of this material on the environment.

Ecotoxicity: No data available

Mobility: No data available

Persistence and degradability: No data available

Bioaccumulative potential: No data available

---

## 13. DISPOSAL CONSIDERATION

When disposing of the waste or recovered material, consult federal, state and/or local regulations for the proper disposal method.

---

## 14. TRANSPORT INFORMATION

Information on Code and Classifications According to International Regulations

UN Classification: None

Further information: Not a dangerous good under IATA or IMDG.

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## 15. REGULATORY INFORMATION

### US Information

Information on the label: Not required

TSCA (Toxic Substances Control Act):

All chemical substances in this product comply with all applicable rules or order under TSCA.

California Proposition 65:

Ingredient carbon black subject to California Proposition 65 is bound in polymer-matrices so that warnings are not required.

### EU Information

Information on the label (1999/45/EC and 67/548/EEC): Not required

Article 14 (2.1) of Directive 1999/45/EC is not applicable to this product.

WHMIS (Canada): This product is NOT subject to the controlled products regulations.

---

## 16. OTHER INFORMATION

HMIS Rating: The National Paint and Coating Association (USA): Health: 1 Flammability: 1 Reactivity: 0

Recommended Uses: Toner for Electrophotographic Equipment

Explanation of term: IARC 2B means "possible human carcinogen".

Revision Information: Regular revision on revised date.

Literature References:

ANSI Z400.1-1993

ISO 11014-1

Commission Directive 91/155/EEC

IARC (2010): IARC monographs on the Evaluation of the Carcinogenic Risk of Chemicals to Humans, Vol. 93, Carbon Black, Titanium Dioxide, and Talc, Lyon, pp. 43-191

H. Muhle, B. Bellmann, O. Creutzenberg, C. Dasenbrock, H. Ernst, R. Kilpper, J. C. MacKenzie, P. Morrow, U. Mohr, S. Takenaka, and R. Mermelstein (1991)

Pulmonary Response to Toner upon Chronic Inhalation Exposure in Rats. Fundamental and Applied Toxicology 17, pp. 280-299.

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Product Name : TONER (Black)

Prepared Date : 13-Nov-2008

Revised Date : 31-Mar-2014

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Restrictions:

The above information is believed to be accurate and represents the best information currently available to Our Corporation. However, Our Corporation makes no warranty with respect to such information, and Our Corporation assumes no liability resulting from its use. Users should make their own investigation to determine the suitability of the information for their particular purposes.

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Product Name: TONER (Yellow)

Prepared date:13-Nov-2008

Revised Date: 31-Mar-2014

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## 1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: TONER (Yellow)

used for: magicolor4750DN/4750EN/3730DN/3730N, bizhub C35/C35P/C25, C3110/C3100P

Supplier Identification:

Konica Minolta Business Solutions U.S.A., Inc.  
100 Williams Drive, Ramsey, New Jersey 07446, U.S.A.  
Telephone: 201-825-4000

Emergency Telephone No.

CHEMTREC  
Telephone: 1-800-424-9300

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## 2. COMPOSITION / INFORMATION ON INGREDIENTS

Substance [ ] Preparation [ X ]

Major Ingredients:

[Generic Name]	[CAS No.]	[%]
Styrene acrylic resin	+++	75-85
Wax	+++	10-20
Organic pigment	+++	1-10
Amorphous silica	7631-86-9	1-10
Titanium dioxide	13463-67-7	< 1

+++ : Supplier's confidential information

Hazardous Ingredients:

Chemical Name: Titanium dioxide (<1%)

CAS No.: 13463-67-7

OSHA Z-Tables(USA):15mg/m3

NTP(USA): Not listed

Symbol(EC): Not listed

EEC-No.: 236-675-5

ACGIH-TLV(USA): 10mg/m3

IARC Monographs: Group 2B

R-Phrase(EC): Not listed

Worksafe-TWA(Austl): 10mg/m3

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Product Name: TONER (Yellow)

Prepared date: 13-Nov-2008

Revised Date: 31-Mar-2014

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### 3. HAZARDS IDENTIFICATION

Emergency Overview: Yellow powder (mean dia. is 5-10um by volume ).

Almost odorless

Classification: Not classified as dangerous. (1999/45/EC)

Most Important Hazards and Effects of the Products

Ingestion Effect: None currently known.

Inhalation Effect: None currently known. Minimal respiratory tract irritation may occur as with exposure to large amount of any non-toxic dust.

Eye Effect: None currently known.

Skin Effect: None currently known.

Chronic Effects: Prolonged inhalation of excessive dusts may cause lung damage. Use of this product, as intended, does not result in inhalation of excessive dust.

Environment Hazards: No data are available on the adverse effects of this product on the environment.

Specific Hazards: Dust explosion (like most finely divided organic powders)

---

### 4. FIRST-AID MEASURES

Ingestion: Wash out mouth with water. Drink one or two glasses of water. If symptoms occur, get medical attention.

Inhalation: Move victim to fresh air immediately. If symptoms occur, get medical attention.

Eye Contact: Flush eyes with plenty of water for 15 minutes. If symptoms occur, get medical attention.

Skin Contact: Wash with water and mild soap.

---

### 5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media: CO<sub>2</sub>, water spray, foam and dry chemical

Extinguishing Media to Avoid: Full water jet

Fire and Explosion Hazards: If dispersed in air, like most finely divided organic powders, may form an explosive mixture.

Protection of Firefighters: Use self-contained breathing apparatus(SCBA).

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### 6. ACCIDENTAL RELEASE MEASURES

Personal Precautions: None

Environmental Precautions: None

Methods for Cleaning Up: Wear personal protective equipment(See Section 8). Vacuum or sweep material and place in a bag and hold for waste disposal. Use vacuum equipped with High Efficiency Particulate Air(HEPA) filter. Vacuum should be electrically bonded and grounded to dispel static electricity. To avoid dust generation, do not sweep dry.

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Product Name: TONER (Yellow)

Prepared date: 13-Nov-2008

Revised Date: 31-Mar-2014

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## 7. HANDLING AND STORAGE

### Handling

Technical Measures: None

Precautions: Do not breathe dust. Avoid contact with eyes.

Safe Handling Advice: Try not to disperse the particulates.

### Storage

Technical Measures: None

Storage Conditions: Keep container closed. Store in a cool and dry place. Keep out of reach of children.

Incompatible Products: None

Packaging Materials: Bottles or Cartridge designated by Konica Minolta.

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## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Engineering Measures

Ventilation: None required with intended use.

### Control Parameters(As total dust)

ACGIH-TLV(USA) : 10mg/m<sup>3</sup> (Inhalable particles), 3.0 mg/m<sup>3</sup> (Respirable particles)

OSHA-PEL(USA): 15mg/m<sup>3</sup> (Total dusts), 5.0 mg/m<sup>3</sup> (Respirable fraction)

DFG-MAK(GER): 4mg/m<sup>3</sup> (Inhalable fraction), 1.5mg/m<sup>3</sup> (Respirable fraction)

Worksafe-TWA(Austl.): 10mg/m<sup>3</sup>

### Personal Protective Equipment

Not required under normal conditions. For use other than in normal operating procedures (such as in the event of large spill), goggles and respirators may be required.

Hygiene Measures: Wash hands after handling.

---

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Appearance

Physical State: Solid

Color: Yellow

Form: Powder (mean dia. is 5-10um by volume)

Odor:

Almost odorless

PH

Not applicable

Boiling Point(°C):

Not applicable

Melting Point(°C):

Around 125C(257F) (Softening Point)

Flash Point(°C):

Not applicable

Ignition Temperature(°C):

No data available

Explosion Properties:

No data available

Vapor Pressure:

Not applicable

Specific Gravity:

1.2

Solubility:

Insoluble in water.

Partition Coefficient, n-Octanol/Water:

Not applicable

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Product Name: TONER (Yellow)

Prepared date: 13-Nov-2008

Revised Date: 31-Mar-2014

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## 10. STABILITY AND REACTIVITY

Stability:	Stable except above 200C(392F).
Hazardous Reactions:	Dust explosion, like most finely divided organic powders.
Conditions to avoid:	Electric discharge, throwing into fire.
Materials to Avoid:	Oxidizing materials.
Hazardous Decomposition Products:	CO, CO <sub>2</sub> , NO <sub>x</sub> and smoke.
Hazardous Polymerization:	Will not occur.

---

## 11. TOXICOLOGICAL INFORMATION

### Acute Toxicity:

Ingestion(oral), LD50(mg/kg):	>2500 (Rat)
Dermal, LD50(mg/kg):	No data available
Inhalation, LC50(mg/l):	>5.57 (Rat,4hour)(This was the highest attainable concentration.)
Eye irritation:	Minimal irritant (Rabbit)
Skin irritation:	Non irritant (Rabbit)

Skin sensitizer: Non sensitizer (Guinea pig)

Local Effects: see Chronic Toxicity or Long term Toxicity

### Chronic Toxicity or Long Term Toxicity:

Prolonged inhalation of excessive dust may cause lung damage. It is attributed to "lung overloading", a generic response to excessive amounts of any dust retained in the lungs for a prolonged interval. Use of this product, as intended, does not result in inhalation of excessive dust.

In a study in rats by chronic inhalation exposure to a typical toner, a mild to moderate degree of lung fibrosis was observed in 92% of rats in the high concentration(16mg/m<sup>3</sup>) exposure group, and a minimal to mild degree of fibrosis was noted in 22% of the animals in the middle(4mg/m<sup>3</sup>) exposure group. But no pulmonary change was reported in the lowest(1mg/m<sup>3</sup>) exposure group, the most relevant level to potential human exposures.

### Carcinogenicity

The IARC reevaluated titanium dioxide as a Group 2B carcinogen (possible human carcinogen). In animal chronic inhalation studies, the tumor formulation observed in only rats with animal chronic inhalation study are attributed to "lung overloading", a generic response to excessive amounts of any dust retained in the lungs for a prolonged interval. Use of this product, as intended, dose not result in inhalation of excessive dust. Epidemiological study to date have not revealed any evidence of the relation between exposure to titanium dioxide and diseases of the respiratory tract beyond general effects of dust.

Mutagenicity: Negative (AMES test)

Teratogenicity: No data available

(\*= Based on data for other Konica Minolta Products with similar ingredients)

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## 12. ECOLOGICAL INFORMATION

No data are available on the adverse effects of this material on the environment.

Ecotoxicity:	No data available
Mobility:	No data available
Persistence and degradability:	No data available
Bioaccumulative potential:	No data available

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Product Name : TONER (Yellow)

Prepared date : 13-Nov-2008

Revised Date : 31-Mar-2014

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### 13. DISPOSAL CONSIDERATION

When disposing of the waste or recovered material, consult federal, state and/or local regulations for the proper disposal method.

---

### 14. TRANSPORT INFORMATION

Information on Code and Classifications According to International Regulations

UN Classification: None

Further information: Not a dangerous good under IATA or IMDG.

---

### 15. REGULATORY INFORMATION

US Information

Information on the label: Not required

TSCA (Toxic Substances Control Act):

All chemical substances in this product comply with all applicable rules or order under TSCA.

California Proposition 65:

This product contains no chemical substances subject to California Proposition 65.

EU Information

Information on the label (1999/45/EC and 67/548/EEC): Not required

Article 14 (2.1) of Directive 1999/45/EC is not applicable to this product.

WHMIS (Canada): This product is NOT subject to the controlled products regulations.

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### 16. OTHER INFORMATION

HMIS Rating: The National Paint and Coating Association (USA): Health: 1 Flammability: 1 Reactivity: 0

Recommended Uses: Toner for Electrophotographic Equipment

Explanation of term: IARC 2B means "possible human carcinogen".

Revision Information: Regular revision on revised date.

Literature References:

ANSI Z400.1-1993

ISO 11014-1

Commission Directive 91/155/EEC

IARC (2010): IARC monographs on the Evaluation of the Carcinogenic Risk of Chemicals to Humans, Vol. 93, Carbon Black, Titanium Dioxide, and Talc, Lyon, pp. 193-276

H. Muhle, B. Bellmann, O. Creutzenberg, C. Dasenbrock, H. Ernst, R. Kilpper, J. C. MacKenzie, P. Morrow, U. Mohr, S. Takenaka, and R. Mermelstein (1991)

Pulmonary Response to Toner upon Chronic Inhalation Exposure in Rats. Fundamental and Applied Toxicology 17, pp. 280-299.

NIOSH CURRENT INTELLIGENCE BULLETIN : Evaluation of Health Hazard and Recommendation for Occupational Exposure to Titanium Dioxide : DRAFT

Restrictions:

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Product Name: TONER (Magenta)

Prepared date:13-Nov-2008

Revised Date: 31-Mar-2014

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: TONER (Magenta)

used for: magicolor4750DN/4750EN/3730DN/3730N, bizhub C35/C35P/C25, C3110/C3100P

Supplier Identification:

Konica Minolta Business Solutions U.S.A., Inc.
100 Williams Drive, Ramsey, New Jersey 07446, U.S.A.
Telephone: 201-825-4000

Emergency Telephone No.

CHEMTREC
Telephone: 1-800-424-9300

2. COMPOSITION / INFORMATION ON INGREDIENTS

Substance [ ] Preparation [ X ]

Major Ingredients:

Table with 3 columns: [Generic Name], [CAS No.], [%]. Rows include Styrene acrylic resin, Wax, Organic pigment 1, Organic pigment 2, Amorphous silica, and Titanium dioxide.

+++ : Supplier's confidential information

Hazardous Ingredients:

Chemical Name: Titanium dioxide (<1%)
CAS No.: 13463-67-7
OSHA Z-Tables(USA):15mg/m3
NTP(USA): Not listed
Symbol(EC): Not listed
EEC-No.: 236-675-5
ACGIH-TLV(USA): 10mg/m3
IARC Monographs: Group 2B
R-Phrase(EC): Not listed
Worksafe-TWA(Austl): 10mg/m3



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Product Name: TONER (Magenta)

Prepared date: 13-Nov-2008

Revised Date: 31-Mar-2014

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### 3. HAZARDS IDENTIFICATION

Emergency Overview: Red powder (mean dia. is 5-10um by volume ).

Almost odorless

Classification: Not classified as dangerous. (1999/45/EC)

Most Important Hazards and Effects of the Products

Ingestion Effect: None currently known.

Inhalation Effect: None currently known. Minimal respiratory tract irritation may occur as with exposure to large amount of any non-toxic dust.

Eye Effect: None currently known.

Skin Effect: None currently known.

Chronic Effects: Prolonged inhalation of excessive dusts may cause lung damage. Use of this product, as intended, does not result in inhalation of excessive dust.

Environment Hazards: No data are available on the adverse effects of this product on the environment.

Specific Hazards: Dust explosion (like most finely divided organic powders)

---

### 4. FIRST-AID MEASURES

Ingestion: Wash out mouth with water. Drink one or two glasses of water. If symptoms occur, get medical attention.

Inhalation: Move victim to fresh air immediately. If symptoms occur, get medical attention.

Eye Contact: Flush eyes with plenty of water for 15 minutes. If symptoms occur, get medical attention.

Skin Contact: Wash with water and mild soap.

---

### 5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media: CO<sub>2</sub>, water spray, foam and dry chemical

Extinguishing Media to Avoid: Full water jet

Fire and Explosion Hazards: If dispersed in air, like most finely divided organic powders, may form an explosive mixture.

Protection of Firefighters: Use self-contained breathing apparatus(SCBA).

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### 6. ACCIDENTAL RELEASE MEASURES

Personal Precautions: None

Environmental Precautions: None

Methods for Cleaning Up: Wear personal protective equipment(See Section 8). Vacuum or sweep material and place in a bag and hold for waste disposal. Use vacuum equipped with High Efficiency Particulate Air(HEPA) filter. Vacuum should be electrically bonded and grounded to dispel static electricity. To avoid dust generation, do not sweep dry.

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Product Name: TONER (Magenta)

Prepared date: 13-Nov-2008

Revised Date: 31-Mar-2014

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## 7. HANDLING AND STORAGE

### Handling

Technical Measures: None

Precautions: Do not breathe dust. Avoid contact with eyes.

Safe Handling Advice: Try not to disperse the particulates.

### Storage

Technical Measures: None

Storage Conditions: Keep container closed. Store in a cool and dry place. Keep out of reach of children.

Incompatible Products: None

Packaging Materials: Bottles or Cartridge designated by Konica Minolta.

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## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Engineering Measures

Ventilation: None required with intended use.

### Control Parameters(As total dust)

ACGIH-TLV(USA) : 10mg/m<sup>3</sup> (Inhalable particles), 3.0 mg/m<sup>3</sup> (Respirable particles)

OSHA-PEL(USA): 15mg/m<sup>3</sup> (Total dusts), 5.0 mg/m<sup>3</sup> (Respirable fraction)

DFG-MAK(GER): 4mg/m<sup>3</sup> (Inhalable fraction), 1.5mg/m<sup>3</sup> (Respirable fraction)

Worksafe-TWA(Austl.): 10mg/m<sup>3</sup>

### Personal Protective Equipment

Not required under normal conditions. For use other than in normal operating procedures (such as in the event of large spill), goggles and respirators may be required.

Hygiene Measures: Wash hands after handling.

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Appearance

Physical State: Solid

Color: Red

Form: Powder (mean dia. is 5-10um by volume)

Odor:

Almost odorless

PH

Not applicable

Boiling Point(°C):

Not applicable

Melting Point(°C):

Around 125C(257F) (Softening Point)

Flash Point(°C):

Not applicable

Ignition Temperature(°C):

No data available

Explosion Properties:

No data available

Vapor Pressure:

Not applicable

Specific Gravity:

1.2

Solubility:

Insoluble in water.

Partition Coefficient, n-Octanol/Water:

Not applicable

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Product Name : TONER (Magenta)

Prepared date : 13-Nov-2008

Revised Date : 31-Mar-2014

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## 10. STABILITY AND REACTIVITY

Stability:	Stable except above 200C(392F).
Hazardous Reactions:	Dust explosion, like most finely divided organic powders.
Conditions to avoid:	Electric discharge, throwing into fire.
Materials to Avoid:	Oxidizing materials.
Hazardous Decomposition Products:	CO, CO <sub>2</sub> , NO <sub>x</sub> and smoke.
Hazardous Polymerization:	Will not occur.

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## 11. TOXICOLOGICAL INFORMATION

### Acute Toxicity:

Ingestion(oral), LD50(mg/kg):	>2500 (Rat)
Dermal, LD50(mg/kg):	No data available
Inhalation, LC50(mg/l):	>4.77 (Rat,4hour)(This was the highest attainable concentration.)
Eye irritation:	Minimal irritant (Rabbit)
Skin irritation:	Non irritant (Rabbit)

Skin sensitizer: Non sensitizer (Guinea pig)

Local Effects: see Chronic Toxicity or Long term Toxicity

### Chronic Toxicity or Long Term Toxicity:

Prolonged inhalation of excessive dust may cause lung damage. It is attributed to "lung overloading", a generic response to excessive amounts of any dust retained in the lungs for a prolonged interval. Use of this product, as intended, does not result in inhalation of excessive dust.

In a study in rats by chronic inhalation exposure to a typical toner, a mild to moderate degree of lung fibrosis was observed in 92% of rats in the high concentration(16mg/m<sup>3</sup>) exposure group, and a minimal to mild degree of fibrosis was noted in 22% of the animals in the middle(4mg/m<sup>3</sup>) exposure group. But no pulmonary change was reported in the lowest(1mg/m<sup>3</sup>) exposure group, the most relevant level to potential human exposures.

### Carcinogenicity

The IARC reevaluated titanium dioxide as a Group 2B carcinogen (possible human carcinogen). In animal chronic inhalation studies, the tumor formulation observed in only rats with animal chronic inhalation study are attributed to "lung overloading", a generic response to excessive amounts of any dust retained in the lungs for a prolonged interval. Use of this product, as intended, dose not result in inhalation of excessive dust. Epidemiological study to date have not revealed any evidence of the relation between exposure to titanium dioxide and diseases of the respiratory tract beyond general effects of dust.

Mutagenicity: Negative (AMES test)

Teratogenicity: No data available

(\* = Based on data for other Konica Minolta Products with similar ingredients)

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## 12. ECOLOGICAL INFORMATION

No data are available on the adverse effects of this material on the environment.

Ecotoxicity:	No data available
Mobility:	No data available
Persistence and degradability:	No data available
Bioaccumulative potential:	No data available

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Product Name : TONER (Magenta)

Prepared date : 13-Nov-2008

Revised Date : 31-Mar-2014

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### 13. DISPOSAL CONSIDERATION

When disposing of the waste or recovered material, consult federal, state and/or local regulations for the proper disposal method.

---

### 14. TRANSPORT INFORMATION

Information on Code and Classifications According to International Regulations

UN Classification: None

Further information: Not a dangerous good under IATA or IMDG.

---

### 15. REGULATORY INFORMATION

US Information

Information on the label: Not required

TSCA (Toxic Substances Control Act):

All chemical substances in this product comply with all applicable rules or order under TSCA.

California Proposition 65:

This product contains no chemical substances subject to California Proposition 65.

EU Information

Information on the label (1999/45/EC and 67/548/EEC): Not required

Article 14 (2.1) of Directive 1999/45/EC is not applicable to this product.

WHMIS (Canada): This product is NOT subject to the controlled products regulations.

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### 16. OTHER INFORMATION

HMIS Rating: The National Paint and Coating Association (USA): Health: 1 Flammability: 1 Reactivity: 0

Recommended Uses: Toner for Electrophotographic Equipment

Explanation of term: IARC 2B means "possible human carcinogen".

Revision Information: Regular revision on revised date.

Literature References:

ANSI Z400.1-1993

ISO 11014-1

Commission Directive 91/155/EEC

IARC (2010): IARC monographs on the Evaluation of the Carcinogenic Risk of Chemicals to Humans, Vol. 93, Carbon Black, Titanium Dioxide, and Talc, Lyon, pp. 193-276

H. Muhle, B. Bellmann, O. Creutzenberg, C. Dasenbrock, H. Ernst, R. Kilpper, J. C. MacKenzie, P. Morrow, U. Mohr, S. Takenaka, and R. Mermelstein (1991)

Pulmonary Response to Toner upon Chronic Inhalation Exposure in Rats. Fundamental and Applied Toxicology 17, pp. 280-299.

NIOSH CURRENT INTELLIGENCE BULLETIN : Evaluation of Health Hazard and Recommendation for Occupational Exposure to Titanium Dioxide : DRAFT

Restrictions:

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Product Name: TONER (Cyan)

Prepared date:13-Nov-2008

Revised Date: 31-Mar-2014

**1. PRODUCT AND COMPANY IDENTIFICATION**

Product Name: TONER (Cyan)

used for: magicolor4750DN/4750EN/3730DN/3730N, bizhub C35/C35P/C25, C3110/C3100P

Supplier Identification:

Konica Minolta Business Solutions U.S.A., Inc.  
 100 Williams Drive, Ramsey, New Jersey 07446, U.S.A.  
 Telephone: 201-825-4000

Emergency Telephone No.

CHEMTREC  
 Telephone: 1-800-424-9300

**2. COMPOSITION / INFORMATION ON INGREDIENTS**

Substance [ ] Preparation [ X ]

Major Ingredients:

[Generic Name]	[CAS No.]	[%]
Styrene acrylic resin	+++	75-85
Wax	+++	10-20
Organic pigment	147-14-8	1-10
Amorphous silica	7631-86-9	1-10
Titanium dioxide	13463-67-7	< 1

+++ : Supplier's confidential information

Hazardous Ingredients:

Chemical Name: Titanium dioxide (&lt;1%)

CAS No.: 13463-67-7

OSHA Z-Tables(USA):15mg/m3

NTP(USA): Not listed

Symbol(EC): Not listed

EEC-No.: 236-675-5

ACGIH-TLV(USA): 10mg/m3

IARC Monographs: Group 2B

R-Phrase(EC): Not listed

Worksafe-TWA(Austl): 10mg/m3



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Product Name : TONER (Cyan)

Prepared date : 13-Nov-2008

Revised Date : 31-Mar-2014

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### 3. HAZARDS IDENTIFICATION

Emergency Overview: Cyan powder (mean dia. is 5-10um by volume ).

Almost odorless

Classification: Not classified as dangerous. (1999/45/EC)

Most Important Hazards and Effects of the Products

Ingestion Effect: None currently known.

Inhalation Effect: None currently known. Minimal respiratory tract irritation may occur as with exposure to large amount of any non-toxic dust.

Eye Effect: None currently known.

Skin Effect: None currently known.

Chronic Effects: Prolonged inhalation of excessive dusts may cause lung damage. Use of this product, as intended, does not result in inhalation of excessive dust.

Environment Hazards: No data are available on the adverse effects of this product on the environment.

Specific Hazards: Dust explosion (like most finely divided organic powders)

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### 4. FIRST-AID MEASURES

Ingestion: Wash out mouth with water. Drink one or two glasses of water. If symptoms occur, get medical attention.

Inhalation: Move victim to fresh air immediately. If symptoms occur, get medical attention.

Eye Contact: Flush eyes with plenty of water for 15 minutes. If symptoms occur, get medical attention.

Skin Contact: Wash with water and mild soap.

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### 5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media: CO<sub>2</sub>, water spray, foam and dry chemical

Extinguishing Media to Avoid: Full water jet

Fire and Explosion Hazards: If dispersed in air, like most finely divided organic powders, may form an explosive mixture.

Protection of Firefighters: Use self-contained breathing apparatus(SCBA).

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### 6. ACCIDENTAL RELEASE MEASURES

Personal Precautions: None

Environmental Precautions: None

Methods for Cleaning Up: Wear personal protective equipment(See Section 8). Vacuum or sweep material and place in a bag and hold for waste disposal. Use vacuum equipped with High Efficiency Particulate Air(HEPA) filter. Vacuum should be electrically bonded and grounded to dispel static electricity. To avoid dust generation, do not sweep dry.

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## 7. HANDLING AND STORAGE

### Handling

Technical Measures: None

Precautions: Do not breathe dust. Avoid contact with eyes.

Safe Handling Advice: Try not to disperse the particulates.

### Storage

Technical Measures: None

Storage Conditions: Keep container closed. Store in a cool and dry place. Keep out of reach of children.

Incompatible Products: None

Packaging Materials: Bottles or Cartridge designated by Konica Minolta.

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## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Engineering Measures

Ventilation: None required with intended use.

### Control Parameters(As total dust)

ACGIH-TLV(USA) : 10mg/m<sup>3</sup> (Inhalable particles), 3.0 mg/m<sup>3</sup> (Respirable particles)

OSHA-PEL(USA): 15mg/m<sup>3</sup> (Total dusts), 5.0 mg/m<sup>3</sup> (Respirable fraction)

DFG-MAK(GER): 4mg/m<sup>3</sup> (Inhalable fraction), 1.5mg/m<sup>3</sup> (Respirable fraction)

Worksafe-TWA(Austl.): 10mg/m<sup>3</sup>

### Personal Protective Equipment

Not required under normal conditions. For use other than in normal operating procedures (such as in the event of large spill), goggles and respirators may be required.

Hygiene Measures: Wash hands after handling.

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Appearance

Physical State: Solid

Color: Cyan

Form: Powder (mean dia. is 5-10um by volume)

Odor:

Almost odorless

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Not applicable

Boiling Point(°C):

Not applicable

Melting Point(°C):

Around 125C(257F) (Softening Point)

Flash Point(°C):

Not applicable

Ignition Temperature(°C):

No data available

Explosion Properties:

No data available

Vapor Pressure:

Not applicable

Specific Gravity:

1.2

Solubility:

Insoluble in water.

Partition Coefficient, n-Octanol/Water:

Not applicable

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Product Name : TONER (Cyan)

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## 10. STABILITY AND REACTIVITY

Stability:	Stable except above 200C(392F).
Hazardous Reactions:	Dust explosion, like most finely divided organic powders.
Conditions to avoid:	Electric discharge, throwing into fire.
Materials to Avoid:	Oxidizing materials.
Hazardous Decomposition Products:	CO, CO <sub>2</sub> , NO <sub>x</sub> and smoke.
Hazardous Polymerization:	Will not occur.

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## 11. TOXICOLOGICAL INFORMATION

### Acute Toxicity:

Ingestion(oral), LD50(mg/kg):	>2500 (Rat)
Dermal, LD50(mg/kg):	No data available
Inhalation, LC50(mg/l):	>5.08 (Rat,4hour)(This was the highest attainable concentration.)
Eye irritation:	Minimal irritant (Rabbit)
Skin irritation:	Non irritant (Rabbit)

Skin sensitizer: Non sensitizer (Guinea pig)

Local Effects: see Chronic Toxicity or Long term Toxicity

### Chronic Toxicity or Long Term Toxicity:

Prolonged inhalation of excessive dust may cause lung damage. It is attributed to "lung overloading", a generic response to excessive amounts of any dust retained in the lungs for a prolonged interval. Use of this product, as intended, does not result in inhalation of excessive dust.

In a study in rats by chronic inhalation exposure to a typical toner, a mild to moderate degree of lung fibrosis was observed in 92% of rats in the high concentration(16mg/m<sup>3</sup>) exposure group, and a minimal to mild degree of fibrosis was noted in 22% of the animals in the middle(4mg/m<sup>3</sup>) exposure group. But no pulmonary change was reported in the lowest(1mg/m<sup>3</sup>) exposure group, the most relevant level to potential human exposures.

### Carcinogenicity

The IARC reevaluated titanium dioxide as a Group 2B carcinogen (possible human carcinogen). In animal chronic inhalation studies, the tumor formulation observed in only rats with animal chronic inhalation study are attributed to "lung overloading", a generic response to excessive amounts of any dust retained in the lungs for a prolonged interval. Use of this product, as intended, dose not result in inhalation of excessive dust. Epidemiological study to date have not revealed any evidence of the relation between exposure to titanium dioxide and diseases of the respiratory tract beyond general effects of dust.

Mutagenicity: Negative (AMES test)

Teratogenicity: No data available

(\* = Based on data for other Konica Minolta Products with similar ingredients)

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## 12. ECOLOGICAL INFORMATION

No data are available on the adverse effects of this material on the environment.

Ecotoxicity:	No data available
Mobility:	No data available
Persistence and degradability:	No data available
Bioaccumulative potential:	No data available

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### 13. DISPOSAL CONSIDERATION

When disposing of the waste or recovered material, consult federal, state and/or local regulations for the proper disposal method.

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### 14. TRANSPORT INFORMATION

Information on Code and Classifications According to International Regulations

UN Classification: None

Further information: Not a dangerous good under IATA or IMDG.

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### 15. REGULATORY INFORMATION

US Information

Information on the label: Not required

TSCA (Toxic Substances Control Act):

All chemical substances in this product comply with all applicable rules or order under TSCA.

California Proposition 65:

This product contains no chemical substances subject to California Proposition 65.

EU Information

Information on the label (1999/45/EC and 67/548/EEC): Not required

Article 14 (2.1) of Directive 1999/45/EC is not applicable to this product.

WHMIS (Canada): This product is NOT subject to the controlled products regulations.

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### 16. OTHER INFORMATION

HMIS Rating: The National Paint and Coating Association (USA): Health: 1 Flammability: 1 Reactivity: 0

Recommended Uses: Toner for Electrophotographic Equipment

Explanation of term: IARC 2B means "possible human carcinogen".

Revision Information: Regular revision on revised date.

Literature References:

ANSI Z400.1-1993

ISO 11014-1

Commission Directive 91/155/EEC

IARC (2010): IARC monographs on the Evaluation of the Carcinogenic Risk of Chemicals to Humans, Vol. 93, Carbon Black, Titanium Dioxide, and Talc, Lyon, pp. 193-276

H. Muhle, B. Bellmann, O. Creutzenberg, C. Dasenbrock, H. Ernst, R. Kilpper, J. C. MacKenzie, P. Morrow, U. Mohr, S. Takenaka, and R. Mermelstein (1991)

Pulmonary Response to Toner upon Chronic Inhalation Exposure in Rats. Fundamental and Applied Toxicology 17, pp. 280-299.

NIOSH CURRENT INTELLIGENCE BULLETIN : Evaluation of Health Hazard and Recommendation for Occupational Exposure to Titanium Dioxide : DRAFT

Restrictions:

The above information is believed to be accurate and represents the best information currently available to Our Corporation. However, Our Corporation makes no warranty with respect to such information, and Our Corporation assumes no liability resulting from its use. Users should make their own investigation to determine the suitability of the information for their particular purposes.

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## Product environmental attributes – THE ECO DECLARATION


The declaration may be published only when all rows and/or fields marked with an \* are filled-in (n.a. for not applicable).  
Additional information regarding each item may be found under P14.

<b>Brand *</b>	<i>Konica Minolta</i>	<b>Logo</b> 
<b>Company name *</b>	<i>Konica Minolta, Inc.</i>	
<b>Contact information *</b>	<i><a href="https://www.konicaminolta.net/neoqa/gl/about.php">https://www.konicaminolta.net/neoqa/gl/about.php</a></i>	
<b>Internet site *</b>	<i><a href="http://www.konicaminolta.com/index.html">http://www.konicaminolta.com/index.html</a></i>	
<b>Additional information</b>		

<b>The company declares (based on product specification or test results based obtained from sample testing), that the product conforms to the statements given in this declaration.</b>	
<b>Type of product *</b>	<i>Multifunction printer</i>
<b>Commercial name *</b>	<i>bizhub</i>
<b>Model number *</b>	<i>C3110</i>
<b>Issue date *</b>	<i>24 April 2014</i>
<b>Intended market *</b>	<input type="checkbox"/> Global <input type="checkbox"/> Europe <input checked="" type="checkbox"/> Asia, Pacific & Japan <input checked="" type="checkbox"/> Americas <input checked="" type="checkbox"/> Other
<b>Additional information</b>	<i>version 1.1</i>


This is an uncontrolled copy when in printed form. Please refer to the contact information for the latest version.

<b>Quality Control</b>		<b>Requirement met</b>	
Item		Yes	No
QC1 *	The company enforces an internal quality control scheme to ensure the correctness of this eco declaration	<input checked="" type="checkbox"/>	<input type="checkbox"/>
QC2 *	The company is a member of an eco declaration system that enforces regular independent quality control such as organized by IT-Företagen (see <a href="http://www.itecodeclaration.org">www.itecodeclaration.org</a> ).	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Model number *	<b>bizhub C3110</b>	Logo	
Issue date *	<b>24 April 2014</b>		

Product environmental attributes - Legal requirements		Requirement met		
Item		Yes	No	n.a.
<b>P1 Hazardous substances and preparations</b>				
P1.1*	Products do not contain more than; 0.1% lead, 0.01% cadmium, 0.1% mercury, 0.1% hexavalent chromium, 0.1% polybrominated biphenyls (PBB) or 0.1% polybrominated diphenyl ethers (PBDE). (See legal reference and Note B1)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
P1.2*	Products do not contain Asbestos (see legal reference). Comment: Legal reference has no maximum concentration value.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
P1.3*	Products do not contain Ozone Depleting Substances: Chlorofluorocarbons (CFC), hydrobromofluorocarbons (HBFC), hydrochlorofluorocarbons (HCFC), Halons, carbontetrachloride, 1,1,1-trichloroethane, methyl bromide (see legal reference). Comment: Legal reference has no maximum concentration values.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
P1.4*	Products do not contain more than; 0.005% polychlorinated biphenyl (PCB), 0.005% polychlorinated terphenyl (PCT) in preparations (see legal reference).	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
P1.5*	Products do not contain more than 0.1% short chain chloroparaffins (SCCP) with 10-13 carbon atoms in the chain containing at least 48% per mass of chlorine in the SCCP (see legal reference).	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
P1.6*	Textile and leather parts with direct skin contact do not contain Tri-(2,3-dibromopropyl)-phosphate (TRIS), Tris-(aziridiny)-phosphineoxide (TEPA), polybrominated biphenyl (PBB) (see legal reference). Comment: Legal reference has no maximum concentration values.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
P1.7*	Textile and leather parts with direct skin contact do not contain more than 0.003% Azo colorants that split aromatic amines. (See legal reference and Note B1)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
P1.8*	Wooden parts do not contain arsenic and chromium as a wood preservation treatment as well as pentachlorophenol and derivatives (see legal reference). Comment: Legal reference has no maximum concentration values.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
P1.9*	Parts with direct and prolonged skin contact do not release nickel in concentrations above 0.5 microgram/cm <sup>2</sup> /week (see legal reference). Comment: Max limit in legal reference when tested according to EN1811:1998.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
P1.10*	REACH Article 33 information about substances in articles is available at (add URL or mail contact):	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<b>P2 Batteries</b>				
P2.1*	If the product contains a battery or an accumulator, it is labeled with the disposal symbol and if it contains more than 0.0005% of mercury (for button cells only) by weight, or more than 0.004% of lead, it shall be marked with the chemical symbol for the metal concerned, Hg or Pb. Information on proper disposal is provided in user manual. (See legal reference)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
P2.2*	Button cells used in the product do not contain more than 2% by weight of mercury. Other batteries or accumulators do not contain more than 0.0005% of mercury or 0.002% of cadmium. (See legal reference)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
P2.3*	Batteries and accumulators are easily removable by either users or service providers (as dependent on the design of the product). Exception: Batteries that are permanently installed for safety, performance, medical or data integrity reasons do not have to be "easily removable". (See legal reference)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>P3 Safety, EMC connection to the telephone network and labeling</b>				
P3.1*	The product complies with legally required safety standards as specified (see legal reference).	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
P3.2*	The product complies with legally required standards for electromagnetic compatibility (see legal reference).	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
P3.3*	If product is intended for connection to a public telecom network or contains a radio transmitter, it complies with legally required standards for radio and telecommunication devices (see legal reference).	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
P3.4*	The product is labeled to show conformance with applicable legal requirements (see legal reference).	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>P4 Consumable materials</b>				
P4.1*	If a photo conductor (drum, belt etc.) is used in the product, it does not contain cadmium max 0.01% (see legal reference and Note B1).	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
P4.2*	If ink/toner is used in the product, it does not contain cadmium max 0.1% by weight (see legal reference).	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
P4.3*	If the ink/toner formulation/preparation is classified as hazardous according to applicable regulations, the product/packaging is adequately labeled and a Safety Data Sheet (SDS) in accordance with these requirements is available (see legal reference).	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>P5 Product packaging</b>				
P5.1*	Packaging and packaging components do not contain more than 0.01% lead, mercury, cadmium and hexavalent chromium by weight of these together.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
P5.2*	Plastic packaging material is marked according to ISO 11469 referring ISO 1043 (see legal reference).	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
P5.3*	The product packaging material is free from ozone depleting substances as specified in the Montreal Protocol (see legal reference). Comment: Legal reference has no maximum concentration values.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>


Note B1: Restriction applies to the homogeneous material, unless other specified and expressed in weight %.

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Product environmental attributes - Market requirements - Environmental conscious design		Requirement met		
Item	*=mandatory to fill in. Additional information regarding each item may be found under P14.	Yes	No	n.a.
<b>P6 Treatment information</b>				
P6.1*	Information for recyclers/treatment facilities is available (see legal reference).	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<b>P7 Design</b>				
<b>Disassembly, recycling</b>				
P7.1*	Parts that have to be treated separately are easily separable	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
P7.2*	Plastic materials in covers/housing have no surface coating.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
P7.3*	Plastic parts >100g consist of one material or of easily separable materials.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
P7.4*	Plastic parts >25g have material codes according to ISO 11469 referring ISO 1043.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
P7.5	Plastic parts are free from metal inlays or have inlays that can be removed with commonly available tools.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
P7.6*	Labels are easily separable. (This requirement does not apply to safety/regulatory labels).	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Product lifetime</b>				
P7.7*	Upgrading can be done e.g. with processor, memory, cards or drives	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
P7.8*	Upgrading can be done using commonly available tools	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
P7.9.	Spare parts are available after end of production for: <b>7</b> years			<input type="checkbox"/>
P7.10	Service is available after end of production for: <b>7</b> years			<input type="checkbox"/>
<b>Material and substance requirements</b>				
P7.11*	Product cover/housing material type: Material type: <b>PC+ABS</b> Material type: <b>ABS</b> Material type: <b>PC</b>			
P7.12	Electrical cable insulation materials of power cables are PVC free.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
P7.13	Electrical cable insulation materials of signal cables are PVC free	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
P7.14	All cover/housing plastic parts >25g are free from chlorine and bromine.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
P7.15	All printed circuit boards (without components) >25g are halogen free. as defined in IEC61249-2-21. (See Note B2)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
P7.16	Flame retarded plastic parts >25g in covers / housings are marked according ISO 1043-4: Marking: <b>FR(40)</b>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
P7.17	Alt. 1 Chemical specifications of flame retardants in printed circuit boards >25g (without components): TBBPA (additive) <input type="checkbox"/> , TBBPA (reactive) <input type="checkbox"/> , Other; chemical name:                      , CAS #:  Alt. 2 Chemical specifications of flame retardants in printed circuit boards (without components) >25g according ISO 1043-4: <b>FR(17)</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
P7.18	Alt. 1 Flame retarded plastic parts >25g contain the following flame retardant substances/preparations in concentrations above 0.1%: Comment: No legal limits exist, this is a market requirement. 1. Chemical name:                      , CAS #: 2. Chemical name:                      , CAS #: 3. Chemical name:                      , CAS #:  Alt. 2 Chemical specifications of flame retardants in plastic parts >25g according ISO 1043-4: <b>FR(17), FR(40)</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
P7.19	Plastic parts >25g are free from flame retardant substances/ preparations above 0.1% classified as R45, R40, R46, R48, R50, R51, R53, R60, R61 and any combination of these (See Note B3)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
P7.20	Of total plastic parts' weight >25g, recycled material content is <b>1.81%</b> .			
P7.21	Of total plastic parts' weight >25g, biobased material content is <b>0%</b> .			
P7.22	Light sources are free from mercury If mercury is used specify: Number of lamps:                      and max. mercury content per lamp: mg	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>P8 Batteries</b>				
P8.1*	Battery chemical composition: <b>Lithium</b>			<input type="checkbox"/>
P8.2	Batteries meet the requirements of the following voluntary program/s:			<input type="checkbox"/>


Note B2: IEC61249-2--21 has maximum limits for chlorine and bromine but does not address fluorine, iodine and astatine which are included in the group of halogens.

Note B3: 'Starting from January 2009, Risk phrases can be replaced by Hazard phrases according to the Globally Harmonized System (GHS), mandatory by December 2010.

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Product environmental attributes - Market requirements (continued)	Requirement met
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Item	Yes	No	n.a.				
<b>P9 Energy consumption</b>							
9.1 For the product the following power levels or energy consumptions are reported:							
Energy mode *	Power level at 100 V AC	Power level at 115 V AC	Power level at 230 V AC	Reference / Standard for energy modes and test method *	<input type="checkbox"/>		
<i>Maximum</i>	<b>1000</b> W	<b>1100</b> W	<b>1200</b> W	<i>Corporated Standard</i>	<input type="checkbox"/>		
<i>Active (Printing)</i>	<b>510</b> W	<b>510</b> W	<b>500</b> W	<i>Energy star</i>	<input type="checkbox"/>		
<i>Ready</i>	<b>75</b> W	<b>80</b> W	<b>72</b> W	<i>Energy star</i>	<input type="checkbox"/>		
<i>Off/Sleep</i>	<b>1.87</b> W	<b>2.32</b> W	<b>2.58</b> W	<i>Energy star</i>	<input type="checkbox"/>		
<i>Plug-in off</i>	<b>0.01</b> W	<b>0.01</b> W	<b>0.01</b> W	<i>Energy star</i>	<input type="checkbox"/>		
	W	W	W		<input type="checkbox"/>		
EPS No-load (External power supply / charger plugged in the wall outlet but disconnected from the product.)	W	W	W		<input checked="" type="checkbox"/>		
PTEC * Typical Energy Consumption	W	W	W		<input checked="" type="checkbox"/>		
TEC * Typical Energy Consumption	<b>2.1</b> kWh/week	<b>2.3</b> kWh/week	<b>2.0</b> kWh/week	<i>Energy Star</i>	<input type="checkbox"/>		
ETEC * Annual Energy Consumption	kWh/year	kWh/year	kWh/year		<input checked="" type="checkbox"/>		
Display resolution* :	Megapixels				<input checked="" type="checkbox"/>		
Print Speed* :	<b>31</b> Images per minute				<input type="checkbox"/>		
Default time to enter energy save mode:	minutes				<input type="checkbox"/>		
P9.2*	Information about the energy save function is provided with the product.				<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>		
P9.3*	The product meets the energy requirements of the following voluntary program/s: ENERGY STAR® version: <b>2.0</b> Tier: Product category: <b>MFDs</b> Others specify:				<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>		
<b>P10 Emissions</b>							
<b>Noise emission – Declared according to ISO 9296</b>							
P10.1	Mode	Mode description	Declared A-weighted sound power level $L_{WA,d}$ (B)	Declared A-weighted sound pressure level $L_{pAm}$ (dB)		<input type="checkbox"/>	
				Operator position <input type="checkbox"/>	Bystander positions <input checked="" type="checkbox"/>		
				Desktop <input type="checkbox"/> or Desk side <input type="checkbox"/>	(only if product is not operator attended)		
	Idle	* <b>Ready</b>	* <b>4.3</b>	<b>29.1</b>			
	Operation	* <b>Printing (b/w / color)</b>	* <b>6.9 / 7.0</b>	<b>54.6 / 55.0</b>		<input type="checkbox"/>	
	Other mode						
	Measured according to: <input checked="" type="checkbox"/> ISO7779 <input type="checkbox"/> ECMA-74 <input type="checkbox"/> Other (only if not covered by ECMA-74 with $L_{pAm}$ measurement distance m)						
P10.2	The product meets the acoustic noise requirements of the following voluntary program/s: <b>RAL UZ-171</b>				<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>		

Model number *	<b>bizhub C3110</b>	Logo	
Issue date *	<b>24 April 2014</b>		

Product environmental attributes - Market requirements (continued)		Requirement met		
Item		Yes	No	n.a.
<b>Chemical emissions from printing products</b>				
P10.3*	Test performed according to ECMA-328 (ISO/IEC 28360) standard <input type="checkbox"/> , other specify: <b>RAL UZ-171</b>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
P10.4	Typical emission rate (print phase) is (mg/h): Dust <b>1.60 / 2.21 (b/w / color)</b> Ozone <b>0.09 / 0.27</b> Styrene <b>0.302 / 0.986</b> Benzene <b>0.002 / 0.00</b> TVOC <b>3.57 / 9.368</b>			<input type="checkbox"/>
P10.5	Chemical emission requirements of the following coluntary program/s <b>RAL UZ-171</b> are met for: Dust <input checked="" type="checkbox"/> Ozon <input checked="" type="checkbox"/> Styrene <input checked="" type="checkbox"/> Benzene <input checked="" type="checkbox"/> TVOC <input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Electromagnetic emissions</b>				
P10.6	Computer display meets the requirement for low frequency electromagnetic fields of the following voluntary program/s:	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<b>P11 Consumable materials for printing products</b>				
P11.1*	A Safety Data Sheet (SDS) is available for the ink/toner preparation, even if not legally required (see P4.3).	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
P11.2*	Paper containing post-consumer recycled fibers can be used, provided that it meets the requirements of EN12281.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
P11.3*	2-sided (duplex) printing/copying is an integrated product function.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>P12 Ergonomics for computing products</b>				
P12.1*	The display meets the ergonomic requirements of ISO 9241-307 for visual display technologies.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
P12.2*	The physical input device meets the requirements of ISO 9995 and ISO 9241-410.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<b>P13 Packaging and documentation</b>				
P13.1*	Product packaging material type(s): <b>polystyrene</b> weight (kg): <b>4.8</b> Product packaging material type(s): <b>paper</b> weight (kg): <b>3.6</b> Product packaging material type(s): <b>foamed PS</b> weight (kg): <b>0.4</b>			
P13.2*	Product plastic packaging is free from PVC.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
P13.3*	Specify media for user and product documentation (tick box): Electronic <input checked="" type="checkbox"/> Paper <input checked="" type="checkbox"/> Other <input type="checkbox"/>			<input type="checkbox"/>
P13.4*	For paper user and product documentation, please specify contained percentage of post-consumer recycled fiber: <b>0 %</b>			<input type="checkbox"/>
<b>P14 Additional information (See Note B4)</b>				
BTU (115v)	<b>46.7 BTU/h</b> The figure is based on the TEC value of 2.3 kWh / week (=24 h x 7 days)			
BTU (230v)	<b>40.6 BTU/h</b> The figure is based on the TEC value of 2.0 kWh / week (=24 h x 7 days)			

Note B4: Additional lines may be inserted to declare further items, by positioning the cursor at the far right of the row and hitting the <Enter> key.

## Legal references Europe Annex B

Reference	Declaration item
2002/95/EC (ROHS Directive)	P1.1, P4.1
REACH, Annex XVII	P1.6, P1.8, P4.2
REACH, Annex XVII	P1.4
REACH, Annex XVII	P1.2
REACH, Annex XVII	P1.7
REACH, Annex XVII	P1.9
Regulation (EC) No. 2037/2000, 2038/2000, 2039/2000	P1.3
Norwegian regulation relating to restrictions on the use of certain dangerous chemicals 20.12.2002	P1.5
2006/66/EC (Battery and accumulators Directive)	P2.1, P2.2, P2.3, P3.4, P8.1
2006/95/EC (Low Voltage Directive)	P3.1, 3.4
2004/108/EEC (New EMC Directive)	P3.2, 3.4
1999/5/EC (R&TTE Directive)	P3.3, 3.4
"REACH" Regulation (1907/2006), annex VII	P1.10
(EC) No.1272/2008 regulation on classification, labeling and packaging (CLP)	P4.3
REACH article 31, annex II	P4.3
2004/12/EC (Directive on packaging and packaging waste)	P5.1
(97/129/EC) (Commission Decision on Identification System for Packaging Materials)	P5.2
2037/2000/EC Regulation on Substances that Deplete the Ozone Layer	P5.3
2002/96/EC (WEEE directive)	P3.4, P6.1
(EC) No.1272/2008 regulation on classification, labeling and packaging (CLP)	P7.19