

P R I M A R E

# SIGHT SOUND SOUL

THE SOUND AND VISION OF SCANDINAVIA









## \_ SIGHT SOUND SOUL

PRIMARE Scandinavian design  
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Marking the emergence of the high end compact system, Primare's CDI10 delivered a beautiful fusion of CD player, DAB/FM tuner and state-of-the-art class D amplification in a single seductive package. The CDI10 was an immediate award-winner and helped to fashion a new, popular product genre. Its success has inspired further development and the outcome of Primare's new design vision is the amazing DVDI10. It introduces the operational and visual elegance of the CDI10 to the dimension of video, embracing DVD and CD playback in the highest definition, superb 2.1 channel audio, DAB/FM or FM/AM radio, advanced Class D amplification and iPod control.

# COMPACT SYSTEMS

Primare's compact one-box systems present the perfect blend of form and performance, combining sophisticated Scandinavian design with the audio and video integrity of our full size models.

## CDI10 / DVDI10



Both CDI10 and DVDI10 use an advanced modular Class D amplifier, which draws from music and film a sense of authority that belies the 75 watt per channel specifications. It generates very little heat while being extremely efficient, and so is perfectly suited to ultra compact design.

The award-winning CDI10 offers the fidelity of a high quality separates system combined

with the lifestyle practicality of a single component. With high resolution 24 bit/196 kHz conversion available to both CD and DAB (when optioned) and enough power to drive most speakers, the CDI10 represents the sleekest slice of Primare expertise.

The DVDI10 shares its video technology with the high performance Primare DVD26. We use a Primare-tuned high quality CD/DVD drive in

concert with a superior video DAC and processing technologies to get the most from all the widely distributed CD and DVD formats as well as MP3 files or digital photos in JPEG format.

The DVDI10 offers a wide range of video outputs to embrace numerous display options, including HDMI, which features up-scaling to Full HD 1080p. Connect your iPod® and control

selections from the DVDI10's remote and front panel display. You can also select the DVDI10 with DAB or FM radio.

Blend state-of-the-art digital processing with award-winning amplifier design and the result is sheer musical alchemy. For these two-channel systems, Primare's ingenuity has achieved a natural balance of detail and dynamic expression, endowing recordings with a breathtaking resolution that is rare and yet so typically Primare. Chic, intuitive and dedicated completely to musical realism, these compact pairings will seduce the connoisseur in every listener.

# TWO CHANNEL SYSTEMS

Primare's 'entry-level' defies classification in market terms. We prefer to see it simply as the beginning of great entertainment.

## CD21 / I21



In its quest for the best performance in every class, Primare has chosen a level of component quality and layout which is straight from the top drawer. This means that Primare's entry-level standard, as represented by the CD21 and I21 system, is well in advance of its peers and endowed with characteristically natural sound, bullet-proof build, reliability and cool Scandinavian aesthetics.

The CD21 is designed for very low digital and mechanical noise. Its transport, which has been re-engineered by Primare for smooth and silent operation, is used by the award-winning CD31 player.

From the transport the signal is sent directly to a DIR1703 receiver, chosen for its jitter-suppression capabilities. Residual noise

is then removed by balanced conversion through twin Burr-Brown PCM 1738 DACs per channel. To further reduce noise the CD21's huge R-CORE transformer has eight separate windings for transport, digital and analogue sections.

The I21 is a compact amplifier designed to produce the current necessary to drive demanding

loudspeaker loads for greater fidelity. A healthy 75 watts per channel is generated by a massive 800VA toroidal transformer, which, being consistent with Primare's dual-mono design philosophy, has separate windings for left and right channels.

## CD31 / I30

In a world that equates change with progress, it's reassuring to encounter a design which transcends the shallow modes of fashion by having the quality to be timeless.



Universally acclaimed in their own right and perfectly in tune when combined, the I30 integrated amplifier and CD31 disc player offer you the purest Primare design heritage and fidelity.

The CD31's blend of purely balanced low-noise circuit design and scrupulously regulated power offers you the gift of astonishingly natural music reproduction.

The signal is fed directly from the transport to a digital receiver which reduces jitter to ensure that the four Burr-Brown PCM 1704 D/A converters - two per channel - receive as clean a digital signal as possible. Each pair of DACs carries the same signal but with opposite phase. Noise and distortion, which are common to both signals is then cancelled during conversion leaving only the pure original signal.

The I30 powerhouse is capable of delivering 100 watts into an 8 ohm load and 180 watts into a 4 ohm load. Fully balanced topology from input to output ensures that the I30 will supply a highly stable and symmetrical signal to your loudspeakers.

Each channel is equipped with its own power transformer and multiple dedicated power regulators to keep colouration low. There

are balanced and unbalanced inputs for six sources. A simple, ultra-low noise rotary control selects the sources.

Irrespective of the quantity of power generated, the quality of power remains consistent.

## PRE30 / A33.2 / A32



Generating ample reserves of clean power has always been a Primare core competence. It's a key part of our low distortion philosophy, which demands that from the source to the speaker, each audio channel is individually resourced, protected and preserved.

PRE30 is a fully balanced preamplifier. When used in conjunction with a balanced power

amplifier, such as the A33.2 or the A32 and a source that provides balanced outputs, like the CD31, it becomes a significant link in an ultra-low noise signal chain that connects the source with the speaker.

The A33.2 power amplifier is a dual mono design featuring two identical compact ultra-low noise mono channels with individual power supplies and protection circuits.

With the mighty A32 Primare has set foot on truly esoteric ground. This is a massive fully balanced design capable of controlling the most demanding low-sensitivity speakers - even at the highest volume levels.

Equipped with a 2kVa toroidal transformer featuring four separate windings, two for each (L/R) channel; a reservoir of 90.000 uF and sixteen bipolar output devices per channel, the

A32 is undeniably an elite amplifier in the classic Primare dual/mono style.

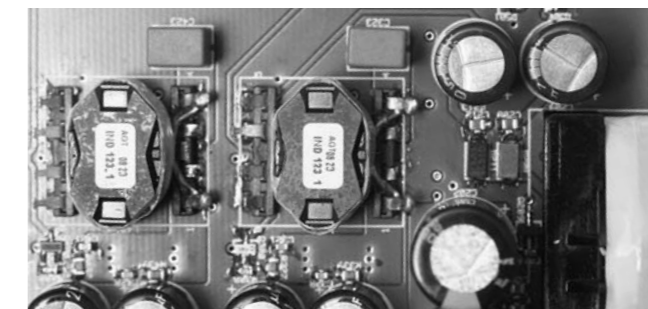
True to our brand values we maintain a no-compromise approach to innovation and product development by refining technologies that add genuine fidelity, convenience and long-lasting peace of mind.

# INNOVATION

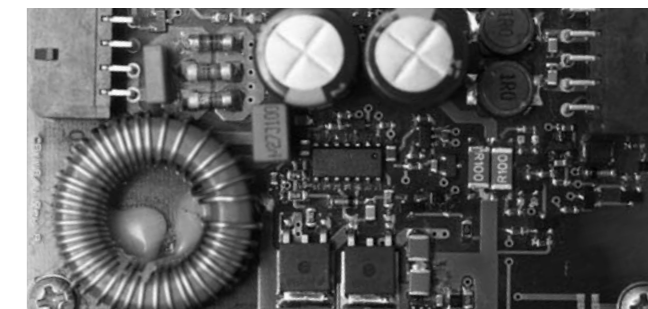
## UFPD

Leaner, Cleaner, Greener amplification.

Primare's new UFPD (Ultra Fast Power Device) amplifiers represent a new type of purified Class D/switch-mode design which delivers a natural dynamic quality of sound across the entire audible spectrum while retaining an amazing energy-saving efficiency. Until the advent of UFPD, Class D modules worked well as compact bass amplifiers but proved to be inherently



unstable when asked to do 'hi-fi' things like accurately reproduce a female voice or percussion instruments. All this has changed with Primare's innovative UFPD design. It has the ability to apply a constant loop gain across the entire audio band, treating all frequencies with the same level of care, and producing a response which is consistent regardless of load. This



means that UFPD is able to drive any speaker, creating a vividly natural rhythmic sound while keeping power consumption at a fraction of that used by a traditional amplifier. With UFPD, Primare has inspired a new generation of smaller, more powerful hi-fidelity amplifiers, perfect for our environmentally conscious multichannel age.

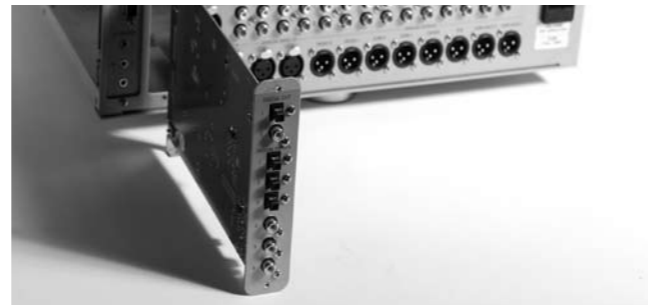
## MODULARITY

Timeless quality in a throw-away world  
– Primare's Open Modular Design.



The virtues that make Primare special can be yours to keep for as long as you like. In typical fashion, Primare is looking beyond the latest fad or next format war to secure for you long-lasting peace of mind and enduring satisfaction. Our new modular design approach means that you can continue to cherish Primare's build quality and sophisticated Scandinavian looks

in the knowledge that our world-class performance will never be out of date. This is because Primare's engineers have endowed the new designs with an open modular structure where upgradeable video, DSP and communications boards simply locate and connect with our award-winning analogue architecture. This means that finer video resolutions and connections,



faster digital audio and even streaming will enhance rather than threaten the Primare design you love. More importantly still, you'll know that once implemented, the new feature will have been optimised by Primare for state-of-the-art performance and reliability.

## BLU-RAY

Top HD and Multichannel quality.

A Blu-ray disc offers a new and dynamic level of audio resolution from lossless audio codecs. While most attention has been placed on the encoded HD formats from Dolby and DTS, a native HD version of the original multichannel soundtrack has existed

all along in the form of uncompressed multichannel LPCM. This virgin HD sound is waiting to be experienced through the new Primare A/V processors SP32 and SPA22. Any Blu-ray player can be configured to output native uncompressed multichannel

LPCM audio from any Blu-ray disc, providing the SP32 and SPA22 with a pure bit-stream for their DACs to convert into scintillating high resolution audio in its original mastered condition.





Primare's multichannel systems synchronise the explosive transparency of their sound with vivid HD video so accurately, you'll feel you can taste the atmosphere of film and live musical recordings. Each identically-engineered audio channel will preserve complete channel integrity and shimmering levels of natural detail while advanced video processing renders life-like action, colour and contrast. What's more, our modular design approach means that whenever the technology advances, your Primare systems will advance as well. So you'll continue to enjoy cutting-edge performance long after rivals lose theirs.

# MULTI CHANNEL SYSTEMS

The audio DACs, analogue circuits and power supply topology follow Primare's rigorous low-noise design philosophy to secure sound reproduction at a level comparable with that of the very best stereo systems.

## SP32



The SP32 is the first of a new generation of Primare products to benefit from our ground-breaking modular design, which allows for entire DSP, video and control sections to be upgraded with proprietary Primare boards. This means that the SP32 can offer protection against built-in obsolescence together with a seductive blend of state-of-the-art performance and intuitive ease of use.

With a comprehensive array of digital and analogue connections: low-noise balanced audio inputs and outputs, HDMIv1.3, a Zone 2 output for performance in a second room, and IR as well as RS232 control inputs; the SP32 will integrate easily with any high quality installation. It's also intuitive to use: any input can be assigned a name and associated with any audio and video source. Surround format, trigger activation and

input sensitivity may be specified for each input, and surround formats custom-set for level, speaker type, crossover frequency, delay and bass configuration.

The SP32's DSP is performed by a Freescale 24 bit processor, which is able to fast lock and decode all commonly used multichannel formats as well as DVD-A and SACD. Using the HDMI1.3 inputs the

SP32 will deliver uncompressed multichannel PCM audio - the highest resolution available on any disc - from a Blu-ray player to your system.

The audio DACs, analogue circuits and power supply topology follow Primare's rigorous low-noise design philosophy to secure sound reproduction at a level comparable with that of the very best stereo systems.

# SPA22

Probably the world's greatest and greenest  
A/V integrated amplifier!



The new SPA22 combines the advanced control flexibility and upgradable topology of the SP32 with five discrete channels of super-efficient UFPD amplification rated at 120W into 8 ohm each. Ultra Fast Power Device technology uses a purified Class D/switch-mode design exclusive to Primare and delivers a natural dynamic quality of sound across the entire audible spectrum while saving around

70% of the energy used to power a conventional amp of similar specification.

The SPA22's new modular design means that new Primare-developed audio, video and control boards can replace the old, so you won't have to discard the amp, simply because it isn't compatible with new technologies.

The SPA22 offers the user configuration of fifteen audio sources and thirteen video sources as well as providing dedicated 7.1 channel inputs and outputs, three 12V DC triggers and IR and RS232 control.

The switchable HDMI1.3 inputs on the SPA22 accept HD video and native multi-channel PCM audio - the highest resolution HD audio

format on Blu-ray discs. This means you can enjoy the highest audio resolution straight from the box, amplified to a new dimension by the SPA22's revolutionary wide bandwidth technology.

Internationally recognized Primare audio circuitry and elite video processing technologies have been combined to create a classic Primare disc player.

# DVD26



The DVD26 is designed as if two exceptional disc players were placed in the same chassis.

It's a purist video player providing smooth action and naturally vibrant pictures. The DVD26's progressive analogue video outputs are driven by the famous Analogue Devices

video DAC, while Full HD 1080p upscaling is available from the HDMI output.

At the centre of the audio design is the highly accomplished Burr-Brown 24 bit/192 kHz Digital to Analogue Converter, which delivers an exceptionally clear and undistorted signal to the

proprietary OP amps and then to the classic Primare discrete single-ended output stage. Separate power supplies for the transport, audio, video and digital sections and carefully isolated control and display circuitry help to maintain signal purity throughout.

The versatile DVD26 offers comprehensive audio and video connectivity for really flexible system integration including HDMI, two component, S-Video, Composite and Scart video outputs, two digital and a single analogue audio output.

## A30.3 / A30.5

Combine the A30.3 or A30.5 multi channel power amplifiers with the A33.2 or the A32 to create any number of matching output stages.



Due to their identical build, the 30 series range of power amplifiers can be matched with confidence to provide the widest range of amplification options.

Because each channel is as precious as the next, we ensure that it is independently resourced

with a classic Primare mono bloc amplifier, perfected over many years to preserve the integrity of the audio signal.

Within each module, a custom made toroidal transformer powers an audiophile gain stage endowed with high quality 1% metal film resis-

tors and ultra-fast bi-polar output devices in a push-pull configuration. Low levels of negative feedback, low output impedance and low distortion create the optimum conditions for signal purity. And to ensure that you can use every ounce of the 120 watts of clean power that each channel of the A30.3 and A30.5 delivers,

individual DC-servos and monitoring circuits provide state-of-the-art protection. The result is a seamless sphere of sound rich in texture and natural dynamics, from any combination of Primare's power amplifiers.





If you take pleasure in vinyl, and your system includes a high quality turntable, the R20 MM-MC Amplifier provides the ideal interface between the low-level output of the cartridge and the line-level inputs of a modern audio system.

The R20 is built for the simple joy of listening, combining operational simplicity with pure

musical drama. Gain and impedance settings can be optimised for both moving-magnet and moving-coil type cartridges and the R20's discrete low-noise audiophile design provides for an inspirational level of quality at the price.



## R20

## T23



The T23 proves that no entertainment system is complete without the versatility and variety of radio. It's a tri-band combined DAB/FM RDS stereo tuner in the digital domain, which means that the tuner uses DSP technology for an extremely clear signal reception. The digital signal is converted to analogue by a high performance PCM 1738 D/A converter and preserved through a discrete analogue output stage and a linear power supply. In keeping with the philosophy of the Primare range of systems, the T23 incorporates a huge R-core

transformer with separate windings for all the different power requirements, such as the display, the analogue audio circuits, the digital circuits and the tuner.

On the back you will find a combined DAB/FM antenna input, unbalanced RCA-audio outputs as well as digital SPDIF and TOSlink outputs, which carry signal both in DAB and FM-mode.

Furthermore RS232 and IR inputs are provided for integration with home automation systems.

Shaped to accommodate the contours of the hand, the C32 System Remote Control Unit is a luxury alternative to the standard C22 remote. Its weighty aluminium chassis imparts a tactile sense of quality while special 'click' buttons and an LED display promote a fast and responsive operation. Reliability is assured

through gold-plated circuits. Even the batteries are placed in a special compartment. The C32 System Remote Control controls all Primare designs except CDI10 and DVDI10, and through a simple procedure, most legacy models.



## C32

CD110



BLACK



TITANIUM

<b>Number of presets</b>	40
<b>Usable Sensitivity</b>	FM mono 10dBuV, FM stereo 20dBuV 50 Ohm
<b>Antenna</b>	
<b>DAB tuner:</b>	
<b>Tuning range</b>	Band III 174 - 240 Mhz Band L 1452 - 1492 MHz
<b>Number of presets</b>	10
<b>Usable Sensitivity</b>	Band III 29dBuV Band L 30dBuV
<b>Other inputs</b>	1 IR, 1 RS232, 50 R antenna F connector, combined DAB/FM
<b>Power consumption</b>	Standby 16 W Operation 210 W
<b>Dimensions (WxDxH)</b>	480 x 385 x 110 mm
<b>Weight</b>	8 kg
<b>Color options</b>	Black or Titanium

<b>Output power</b>	2 x 75 W / 8 Ohm class D amplifier
<b>Analogue inputs</b>	3 RCA (L / R) 3.5 mm stereo mini jack line ind / headphone
<b>Preamp output</b>	1 RCA (L/R)
<b>Record output</b>	1 RCA (L/R)
<b>Digital outputs</b>	1 TOS-link, 1 Coaxial (SPDIF)
<b>Frequency response</b>	20 Hz - 20 kHz, -0.3dB
<b>THD+N</b>	< 0.1% (20 Hz - 20 kHz 10 W)
<b>Player:</b>	
<b>Mechanism</b>	Shinwa SHD-2503
<b>D/A converter</b>	PCM 1738 192khz, 24bits
<b>Formats supported</b>	CD, CD-R, CD-RW
<b>FM tuner:</b>	
<b>Tuning range</b>	87.5 - 108 Khz
<b>RDS</b>	RDS decoding

DVD110



BLACK



TITANIUM

<b>RDS</b>	RDS decoding
<b>Number of presets</b>	40
<b>Usable Sensitivity</b>	FM mono 10dBuV, FM stereo 20dBuV 75 Ohm
<b>Antenna</b>	
<b>AM tuner:</b>	
<b>Tuning range</b>	522 - 1620 kHz
<b>Number of presets</b>	40
<b>Antenna</b>	75 Ohm
<b>DAB tuner:</b>	
<b>Tuning range</b>	Band III 174 - 240 Mhz Band L 1452 - 1492 MHz
<b>Number of presets</b>	10
<b>Usable Sensitivity</b>	Band III 29dBuV Band L 30dBuV
<b>Other inputs</b>	1 IR, 1 RS232, Combined FM/DAB or separate FM/AM antenna iPOD connector
<b>Power consumption</b>	Standby 6 W Operation 210 W
<b>Dimensions (WxDxH)</b>	450 x 350 x 110 mm
<b>Weight</b>	8 kg
<b>Color options</b>	Black or Titanium
<b>Accessories</b>	iPod cable is optional

<b>Output power</b>	2 x 75 W / 8 Ohm class D amplifier
<b>Analogue inputs</b>	3 RCA (L / R) 3.5 mm stereo mini jack line ind / headphone
<b>Preamp output</b>	1 RCA (L/R)
<b>Record output</b>	1 RCA (L/R)
<b>Digital outputs</b>	1 TOS-link, 1 Coaxial (SPDIF)
<b>Video outputs</b>	1 HDMI, 1 Component, 1 S-video, 1 Composite, 1 Scart (RGB compatible)
<b>Frequency response</b>	20 Hz - 20 kHz, -0.3dB
<b>THD+N</b>	< 0.1% (20 Hz - 20 kHz 10 W)
<b>Player:</b>	
<b>Mechanism</b>	Shinwa SHD-2503
<b>Video DAC</b>	Analogue Device ADV7320
<b>Formats supported</b>	CD, VCD, SVCD, CD-R, CD-RW, DVD-R, DVD+R, MP3, JPEG
<b>Video signal system</b>	NTSC/PAL
<b>Video formats</b>	>500 lines
<b>Video Signal to Noise</b>	-75 dB
<b>FM tuner:</b>	
<b>Tuning range</b>	87.5 - 108 Khz 87.5 - 108 Khz

CD21



**Mechanism** Shinwa SHD-2503  
**D/A converter** 2 x Burr-Brown, PCM 1738, 192kHz, 24bits  
**Analogue outputs** 1 RCA (L/R), 2.0 Vrms  
**Output impedance** 100 Ohm  
**Digital audio outputs** Coaxial (SPDIF), 1 RCA (75 Ohm), 1 AES/EBU (110 Ohm), 1 TOS-link

**Frequency response** 20 Hz - 20kHz (+ /- 0.2 dB)  
**Signal to Noise** 105 dBv  
**THD+N** <0.01 % (20 Hz - 20 kHz)  
**Other inputs** IR input 3.5 mm, RS 232 input, Data input  
**Power consumption** Standby 16 W, Operation 30 W  
**Dimensions (WxDxH)** 430 x 385 x 106 mm  
**Weight** 8.0 kg  
**Color options** Black or Titanium

**Mechanism** Shinwa SHD-2503  
**D/A converter** 4 x Burr-Brown, PCM 1704 K grade, 96kHz, 24bits  
**Analogue outputs** 1 RCA (L/R), 2.0 Vrms, 1 XLR (L/R), 4.0 Vrms, 100 Ohm  
**Output impedance** Coaxial (SPDIF), 1 RCA (75 Ohm), 1 AES/EBU (110 Ohm), 1 TOS-link

**Frequency response** 20 Hz - 20kHz (+/- 0.1 dB)  
**Signal to Noise** 105 dBv  
**THD+N** <0.01 % (20 Hz - 20 kHz)  
**Other inputs** IR input 3.5 mm, RS 232 input, Data input  
**Power consumption** Standby 16 W, Operation 34 W  
**Dimensions (WxDxH)** 430 x 385 x 106 mm  
**Weight** 8.5 kg  
**Color options** Black or Titanium



CD31



I21



**Output power** 2 x 75 W / 8 Ohm, 2 x 125 W / 4 Ohm  
**Analogue inputs** 4 RCA (L/R), 330 mV  
**Speaker terminals** 4 - 16 Ohm  
**Output impedance** < 0.08 Ohm  
**Preamp output** 1 RCA (L/R)  
**Record output** 1 RCA (L/R), 300 mV  
**Peak Current** + / - 25 A  
**Frequency response** 10 Hz - 100 kHz, -3 dB

**Signal to Noise** 100 dB  
**THD+N** <0.05% (1 kHz, 10W / 8 Ohm)  
**Power consumption** Standby <12 W, Operation 300 W max  
**Dimensions (WxDxH)** 420 x 385 x 106 mm  
**Weight** 13.5 kg  
**Color options** Black or Titanium

**Output power** 2 x 100 W / 8 Ohm, 2 x 180 W / 4 Ohm  
**Analogue inputs** 4 RCA (L/R), 280 mV, 2 XLR (L/R), 560 mV  
**Speaker terminals** 4 - 16 Ohm  
**Output impedance** < 0.06 Ohm  
**Preamp output** 1 RCA (L/R)  
**Record output** 1 RCA (L/R), 280 mV  
**Peak Current** + / - 40 A

**Frequency response** <10 Hz - 100kHz, -3 dB  
**Signal to Noise** 100 dB  
**THD+N** <0.02% (1 kHz, 10 W / 8 Ohm)  
**Power consumption** Standby <25 W, Operation 600 W max  
**Dimensions (WxDxH)** 420 x 385 x 106 mm  
**Weight** 15.5 kg  
**Color options** Black or Titanium



I30





PRE30



**Analogue inputs** 5 RCA (L/R), 280 mV  
2 XLR (L/R), 560 mV  
**Analogue outputs** 2 RCA (L/R)  
1 XLR (L/R)  
**Analogue record output** 1 RCA (L/R), 280 mV  
**Sensitivity adjustment** + / - 20 dB  
**Gain** 16 dB  
**Frequency response** DC to 100 kHz, -0.1dB

**Signal to Noise** 118 dBv  
**THD+N** <0.005% (20 Hz - 20kHz)  
**Other outputs** 1.5 V trigger  
**Power consumption** Standby 16 W  
Operation 16 W  
**Dimensions (WxDxH)** 430 x 385 x 106 mm  
**Weight** 9.5 kg  
**Color options** Black or Titanium

**Output power** 2 x 250 W / 8 Ohm  
2 x 400 W / 4 Ohm  
**Inputs** 1 x RCA (L / R)  
1 x XLR (L / R)  
**Input impedance** 15 kOhm  
**Output impedance** <0.025 Ohm  
**Gain** 26 dB unbalanced / 20 dB balanced  
**Frequency response** 20Hz - 100kHz, -0.5 dB  
**Signal to Noise** <100 dB  
**THD+N** <0.002% (1 kHz, 10 W / 8 Ohm)

**Other inputs** 4 -12 V trigger  
**Power consumption** Off but mainswitch On <2 W  
Standby <50 W  
Operation idle 170 W  
**Dimensions (WxDxH)** 430 x 546 x 216 mm  
**Weight** 40 kg  
**Color Options** Black or Titanium

A33.2



**Output power** 2 x 120 W / 8 Ohm  
2 x 200 W / 4 Ohm  
**Inputs** 1 x RCA (L / R)  
1 x XLR (L / R)  
**Input impedance** 11 kOhm  
**Output impedance** <0.03 Ohm  
**Gain** 30 dB unbalanced / 24 dB balanced  
**Frequency response** <10Hz - 100kHz, - 3 dB  
**Signal to Noise** 100 dB  
**THD+N** <0.02% (1 kHz, 10 W / 8 Ohm)

**Other inputs** 4 -12 V trigger  
**Power consumption** Standby 0.8 W  
Operation idle 60 W  
Operation 500 W max  
**Dimensions (WxDxH)** 430 x 385 x 140 mm  
**Weight** 20 kg  
**Color Options** Black or Titanium

**Mechanism** Shinwa SHD-2503  
**Audio DAC** PCM 1738  
192kHz, 24 bit  
**Video DAC** Analogue Device ADV7310A  
**Formats supported** CD, VCD, SVCD, CD-R, CD-RW, DVD-R, DVD+R  
DVD-V, MP3, JPEG  
NTSC/PAL  
**Video signal system** >500 lines  
**Video formats** >500 lines  
**Video Signal to Noise** -75 dB  
**Analogue outputs** 1 RCA (L/R), 2.0 Vrms  
**Digital outputs** TOS-link,  
Coaxial (SPDIF)

**Frequency response** 10 Hz - 20 kHz  
**Signal to Noise** 100 dB  
**Harmonic distortion** 0.009% at 1 kHz  
**Other inputs** IR 3.5 mm, RS232, data input  
**Power consumption** Operating 35 W  
Standby 10 W  
**Dimensions (WxDxH)** 430 x 385 x 106 mm  
**Weight** 10,5  
**Color options** Black or Titanium

**Video output** 1 HDMI (1080p upscaling),  
1 Component (progressive),  
1 Component (interlazed),  
1 S-video, 1 Composite  
1 Scart (RGB compatible)  
1 S-video, 1 Composite  
1 Scart (RGB compatible)

A32



DVD26



SPA22



BLACK



TITANIUM

<b>Output power</b>	5 x 120 W / 8 ohm
<b>Analogue inputs</b>	8 RCA incl 7.1 inputs
<b>Digital inputs</b>	3 RCA, 3 TOS-link, 1 XLR
<b>Video inputs</b>	3 HDMI, 3 Component, 3 S-video, 4 Composite
<b>Analogue outputs</b>	Front (L/R), Center, Sub Surr (L/R), Surr back (L/R)
<b>Analogue Record output</b>	1 RCA (L/R)
<b>Analogue Zone 2 output</b>	1 RCA (L/R)
<b>Digital output</b>	1 RCA, 1 TOS-link
<b>Video output</b>	1 HDMI, 1 Component, 1 S-video, 1 Composite
<b>Video Zone 2 output</b>	1 S-video, 1 Composite
<b>Other in-/outputs</b>	1 IR input, 3 12 V triggers 1 RS232
<b>Modes</b>	Stereo, Bypass, Party, Dolby Prologic IIx Music, Dolby Prologic IIx Movie DTS NEO:6 Music DTS NEO:6 Cinema
<b>Formats decoded</b>	Dolby Digital, Dolby Digital EX, Dolby Prologic II, Dolby Prologic IIx, DTS, DTS ES, DTS NEO:6 DTS 96/24 MULTI/2CH PCM/LPCM
<b>Video</b>	10 bit conversion supporting NTSC/PAL, Component, S-video and Composite
<b>Analogue preamp data:</b>	
<b>Frequency response</b>	10 Hz - 100 kHz, 1 dB
<b>Signal to Noise</b>	- 110 dB
<b>THD+N</b>	< 0.005%, 20 Hz - 20 kHz
<b>Input impedance</b>	47 kOhm unbalanced
<b>Output impedance</b>	47 R unbalanced
<b>Power amp data:</b>	
<b>Frequency response</b>	20 Hz - 20 kHz, -0.2 dB
<b>Signal to Noise</b>	80 dBr (AP AES17 filter)
<b>THD+N</b>	<0.01%, 20 Hz - 20 kHz, 1 W, 8 R
<b>Power consumption</b>	Standby < 5 W Operation 800 W max
<b>Dimensions (WxDxH)</b>	430 x 385 x 180 mm
<b>Weight</b>	15 kg
<b>Color options</b>	Black or Titanium

<b>Analogue inputs</b>	8 RCA, 2 XLR incl 7.1 inputs
<b>Digital inputs</b>	3 RCA, 3 TOS-link, 1 XLR
<b>Video inputs</b>	3 HDMI, 3 Component, 3 S-video, 4 Composite
<b>Balanced analogue outputs</b>	Front (L/R), Center, Sub Surr (L/R), Surr back (L/R)
<b>Analogue outputs</b>	Front (L/R), Center, Sub Surr (L/R), Surr back (L/R)
<b>Analogue Record output</b>	1 RCA (L/R)
<b>Analogue Zone 2 output</b>	1 RCA (L/R)
<b>Digital output</b>	1 RCA, 1 TOS-link
<b>Video output</b>	1 HDMI, 1 Component, 1 S-video, 1 Composite
<b>Video Zone 2 output</b>	1 S-video, 1 Composite
<b>Other in-/outputs</b>	1 IR input, 3 12 V triggers, 1 RS232
<b>Modes</b>	Stereo, Bypass, Party, Dolby Prologic IIx Music, Dolby Prologic IIx Movie DTS NEO:6 Music DTS NEO:6 Cinema
<b>Formats decoded</b>	Dolby Digital, Dolby Digital EX, Dolby Prologic II, Dolby Prologic IIx, DTS, DTS ES, DTS NEO:6 DTS 96/24 MULTI/2CH PCM/LPCM
<b>Video</b>	10 bit conversion supporting NTSC/PAL, Component, S-video and Composite
<b>Analogue preamp data:</b>	
<b>Frequency response</b>	10 Hz - 100 kHz, 1 dB
<b>Signal to Noise</b>	- 110 dB
<b>THD+N</b>	< 0.005%, 20 Hz - 20 kHz
<b>Input impedance</b>	47 kOhm unbalanced
<b>Output impedance</b>	3 kOhm balanced 47 R unbalanced 47 R balanced
<b>Frequency response</b>	20 Hz - 20 kHz, -0.2 dB
<b>Signal to Noise</b>	80 dB (AP AES17 filter)
<b>THD+N</b>	< 0.01%, 20 Hz - 20 kHz, 1 W, 8 R
<b>Power consumption</b>	Standby < 5 W Operation < 60W
<b>Dimensions (WxDxH)</b>	430 x 385 x 180 mm
<b>Weight</b>	12 kg
<b>Color options</b>	Black or Titanium



BLACK



TITANIUM

SP32

A30.3



**Output power**  
3 x 120 W / 8 Ohm  
3 x 200 W / 4 Ohm

**Inputs**  
3 RCA

**Line inputs**  
1 V for 120 W / 8 Ohm

**Input impedance**  
10 kOhm

**Output impedance**  
<0.03 Ohm

**Gain**  
30 dB unbalanced

**Frequency response**  
<10kHz - 100kHz, -3dB

**Signal to Noise**  
100 dBr

**THD+N**  
<0.08% (1 kHz, 10 W / 8 Ohm)

**Other inputs**  
5 - 12 V trigger

**Power consumption**  
Standby < 3.5 W  
Operation idle 120 W

**Dimensions (WxDxH)**  
430 x 385 x 100 mm

**Weight**  
16 kg

**Color Options**  
Black or Titanium

**Inputs**  
1 RCA (L/R)

**Outputs**  
1 RCA (L/R)

**Input impedance**  
10 Ohm, 20 Ohm,  
50 Ohm, 100 Ohm  
200 Ohm, 47k Ohm

**Output impedance**  
100 Ohm

**Gain**  
MM 35 / 41 dB,  
MC 55 dB

**RIAA accuracy**  
+ / - 0.2 dB  
(50 Hz - 20 kHz)

**Power consumption**  
Standby 8 W  
Operation 8 W

**Dimensions (WxDxH)**  
215 x 275 x 81 mm

**Weight**  
4 kg

**Color options**  
Black or Titanium

R20



A30.5



**Output power**  
5 x 120 W / 8 Ohm  
5 x 200 W / 4 Ohm

**Inputs**  
5 RCA

**Line inputs**  
1 V for 120 W / 8 Ohm

**Input impedance**  
10 kOhm

**Output impedance**  
<0.03 Ohm

**Gain**  
30 dB unbalanced

**Frequency response**  
<10kHz - 100kHz, -3dB

**Signal to Noise**  
100 dBr

**THD+N**  
<0.08% (1 kHz, 10 W / 8 Ohm)

**Other inputs**  
5 - 12 V trigger

**Power consumption**  
Standby < 3.5 W  
Operation idle 190 W

**Dimensions (WxDxH)**  
430 x 385 x 175 mm

**Weight**  
28 kg

**Color Options**  
Black or Titanium

**FM tuner:**  
**Tuning range**  
87.5 - 108 KHz

**RDS**  
RDS decoding

**Number of presets**  
40

**Usable Sensitivity**  
FM mono 10dBuV,  
FM stereo 20dBuV  
50 Ohm

**Antenna**  
**DAB tuner:**  
**Tuning range**  
Band III 174 - 240 Mhz  
Band L 1452 - 1492 MHz

**Number of presets**  
10

**Usable Sensitivity**  
Band III 29dBuV  
Band L 30dBuV  
1 RCA (L/R),

**Outputs**  
1 RCA (L/R),  
1 Coaxial (SPDIF),  
1 TOS-link  
1 IR, 1 RS232,

**Inputs**  
50 R antenna F connector,  
combined DAB/FM

**Power consumption**  
Standby < 6 W  
Operation 15 W

**Dimensions (WxDxH)**  
430 x 385 x 106 mm

**Weight**  
8.5 kg

**Color options**  
Black or Titanium

T23





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SIGHT  
SOUND  
SOUL

