

# Optoma DLP Projector



## Specification:

Native Resolution	XGA 1024 x 768
Display Technology	Single 0.55" XGA DC3 DMD chip DLP® Technology by Texas Instruments
Brightness - BRIGHT mode	3000 ANSI Lumens
Contrast	3000:1
Noise Level	29dB (STD mode)
Lamp Life <sup>2</sup>	4000/3000 (STD/BRIGHT mode)
Projections Lens	F Number 2.8 Focus Length 7.017mm Focus / Zoom Type Manual Focus / 2.0x Digital Zoom Throw Ratio 0.626:1 (Projection Distance: Image Width)
Projection Distance	0.5 - 2.5m
Image Size	1.00 – 5.00m (39.34" – 196.71") Diagonal 4:3
Offset	115% ±5%
Weight / Dimensions (W x D x H)	3.1 kg / 306 x 243 x 113mm
Remote Control	Full function remote with direct source selecting
INPUTS	HDMI (HDCP) - audio supported 2 x 15 Pin D-Sub VGA S-Video 4 Pin Mini Din Composite RCA 3.5mm Audio Mini Jack - Audio computer inputs 2 x Stereo RCA - Audio video inputs USB (remote mouse)

	Microphone
CONTROL	RS232 - 3 Pin Mini DIN RJ45 [Operation during standby mode - ECO standby must be set to off]
OUTPUT	3.5mm Audio Mini Jack 15 Pin D-Sub VGA [Supported through VGA 1 only. Operation during standby mode - ECO standby must be set to of]
Audio	10W Speaker
Aspect Ratio	4:3 Native, 16:9 Compatible
Keystone Correction	± 40° Vertical
On Screen Display	19 Languages: English, German, French, Italian, Spanish, Portuguese, Polish, Dutch, Russian, Finnish, Swedish, Greek, Norwegian/Danish, Hungarian, Czech, Turkish, Farsi, Arabic & Romanian
Compatible Resolutions	UXGA, SXGA, WXGA, HD, XGA, SVGA
Video Compatibility	PAL SECAM 576i/p, NTSC 480i/p, HD 720p/1080i/1080p
Uniformity	85%
Displayable Colours	1.07 Billion
Horizontal Scan Rate	15 - 91kHz
Vertical Scan Rate	25 - 85Hz (120Hz for 3D)
Power Supply	100 - 240V, 50 - 60Hz
Power Consumption	295W BRIGHT mode < 1W Standby mode 250W STD mode < 1W Standby mode
Operating Conditions	Operating: 5 - 40°C, 85% Humidity (Max), 3000m Altitude (Max)
Security	Security Bar, Kensington™ Lock Port, Password Protection
Standard Accessories	Lens Cover, AC Power Cord, VGA Cable, Full Function Remote, Batteries x 2, Quick Start Guide, CD User Manual, Warranty Card, WEEE Card
RoHS	Compliant
Lamp Warranty	6 months or 1000 hours - whichever comes sooner
Warranty	Warranty may vary by country. Please see <a href="http://www.optomaeurope.com">www.optomaeurope.com</a> or ask your local supplier for details
Colour Guarantee <sup>3</sup>	5 Years
3D Support	120Hz frame sequential 3D for resolutions up to 720p. 60Hz field sequential 3D for resolutions up to 480i
3D Viewing	Requires Optoma DLP® Link™ active shutter glasses – sold separately

3D Compatibility	The 3D features of Optoma projectors can only be used with compatible 3D content. Typical applications include use with 3D educational or 3D design and modelling systems. Support for 3D TV broadcast systems,(SKY in the UK), Blu-ray 3D™ and 3D games from the Sony® PS3 or Microsoft® Xbox 360 will require the Optoma 3D-XL that is available separately. See website for updates.
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**EX610ST Projection Distance 0.5 - 2.5m (4:3 Aspect Ratio):**

Projection Distance (m)	Horizontal Image Size (m)	Vertical Image Size (m)	Diagonal Image Size (m)	Diagonal Image Size (inch)	Image Offset (m)
0.50	0.80	0.60	1.00	39.34	0.09
0.60	0.96	0.72	1.20	47.21	0.11
0.70	1.12	0.84	1.40	55.08	0.13
0.80	1.27	0.95	1.59	62.55	0.14
0.90	1.44	1.08	1.80	70.82	0.16
1.00	1.60	1.20	2.00	78.69	0.18
1.10	1.76	1.32	2.20	86.55	0.20
1.20	1.92	1.44	2.40	94.42	0.22
1.30	2.08	1.56	2.60	102.29	0.23
1.40	2.24	1.68	2.80	110.16	0.25
1.50	2.40	1.80	3.00	118.03	0.27
2.00	3.19	2.40	4.00	157.37	0.36
2.50	3.99	3.00	5.00	196.71	0.45

**Projector Wall Mount - Part number: OPCWM835 :** Wall mount for the EX610ST Telescopic mount with height adjustment plate for versatile installation. Maximum projector image of 97” diagonal with the EX610ST.

**Lamp - Part number: 23.8BW15G004:** Optoma genuine lamp modules are designed and tested to work specifically with your Optoma projector to ensure quality, good performance and longevity.

### Features:

- Rugged construction
- Easy to use
- High performance

### Extra features:

- **Direct power on: start** up time is significantly reduced as standby mode is bypassed when the power cable is inserted into an active power outlet. This eliminates the need to use the 'Power' button on the remote control or the projector keypad.
- **Auto power off:** if after a pre-determined time the projector does not receive a signal, it will turn itself off automatically, conserving power and extending the life of the lamp.
- **Keypad lock** - once enabled, prevents unauthorized adjustments ensuring the projector can only be controlled via the remote control.
- **+12v Trigger** - electric screen control
- **Logo Capture** - customize your start-up screen

### Other features:

### Perfect for teaching:

Maximize space in the classroom for teachers and students. The teacher can stand close to the interactive whiteboard without having the intense light from the projector shining directly into their eyes

### 3D ready for the classroom:

Engage and inspire your students with 3D lessons in Biology, Math, Geography and many more

**Easy to monitor:**

Free network software enables all projector settings to be controlled and monitored over a network (LAN) from a PC/ laptop.

**Save money:**

DLP® ensures lower total cost of ownership, Crystal-clear graphics and improved reliability compared to other technologies.

**Up to 4000 hours lamp life Fewer lamp** replacements = lower running costs.

**Filter-Free** Designed without filters for hassle -free operation.

**Secure:**

Kensington™ Lock, security bar and password protection act as a theft deterrent by preventing unauthorized use. Keypad lock prevents unauthorized adjustments and ensures the projector can only be controlled via the remote control

**Energy efficient =environmentally friendly:**

Running costs are reduced thanks to reduced power consumption and standby mode less than 1W. When the projector is no longer required in the classroom it will automatically turn off, saving energy and prolonging the life of the lamp.

<b>Diagonal image size (inch / m)</b>	<b>Projection distance (m)</b>
55/1.40	0.70
60/1.54	0.77
70/1.78	0.89
80/2.04	1.02
90/2.28	1.14

**Other information:**

- Native XGA, 60" image from just 77cm away
- Shadow-free images on interactive whiteboards
- Bright images, vivid colors – 3000 ANSI Lumens
- HDMI Crystal-clear images – HDMI connectivity
- Creston Room View® – RJ45 network control and monitoring
- Impressive sound quality – integrated 10W speaker
- 3D Ready technology – DLP®-Link™ enabled
- Environmentally friendly design – less than 1W standby mode
- Optoma EX610ST filter-free design – reduced maintenance costs