

EX610ST DLP® Projector

Engaging **3D** projection
in the **smallest**
of spaces

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



3D projection in the smallest of rooms with the EX610ST

The XGA short throw, 3D-capable EX610ST is designed to display bright, rich, colourful, crystal-clear images for both the education and business environments. Perfect for installations with interactive whiteboards ensures teaching and business environments have the right tools for engaging and presenting to their audience without shadows and screen glare. The EX610ST at 3000L incorporates extensive connectivity, powerful 10W stereo speakers and RJ45 control to maintain and monitor the projectors over the network.

The environmentally friendly EX610ST has energy saving features including less than 1W standby mode and auto power off saving you both time and money. Long lamp life of 4000hrs combined with our unique Optoma Colour and Imager guarantees ensure hassle-free, long-lasting projection.

PERFECT FOR TEACHING ✓

Maximise 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-CAPABLE FOR THE CLASSROOM ✓

Engage and inspire your students with 3D lessons in Biology, Maths, 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.

SAVES 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 unauthorised use. Keypad lock prevents unauthorised 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.



SHORT THROW LENS

The EX610ST can project an impressive 60" diagonal image from just 77cm from the screen. Standalone or wall mounted, the EX610ST eliminates shadows on the screen and allows you to present with ease.



BRIGHT, DETAILED & COLOURFUL PROJECTION

Grab your audience's attention with bright, vivid projected images thanks to the BrilliantColor™ technology incorporated within the EX610ST.

Once you've purchased an Optoma DLP® projector, we guarantee that the colours, compared to other leading technologies, will not fade for a minimum of 5 years.

Preset display modes allow you to achieve a perfect image on a variety of surfaces including screens and interactive whiteboards.

CLEAR, FOCUSED IMAGES

Lessons in the classroom and presentations in the boardroom demand sharp, flawless images. DarkChip3™ technology from Texas Instruments produces a stunning 3000:1 contrast ratio for pin sharp graphics and Crystal-clear text. Crisper whites & ultra-rich blacks make images come alive and text easier to read.

To retain image clarity, Optoma projectors are designed with DLP® technology preventing degradation over time to give consistent pixel performance. Our Image Guarantee ensures a precise picture performance and hassle-free projection for a minimum of 5 years.

Diagonal Image Size (inch/m)	Projection Distance (m)
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

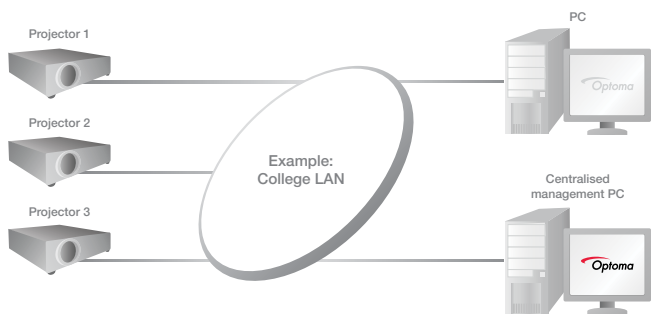




CRESTRON ROOMVIEW® - NETWORK CONTROL

RoomView® software provides a custom configurable interface to monitor, manage and control every device in every room remotely from any computer.

- Manage up to 250 projectors at the same time (via master PC).
- Control and alter the projector settings using a simple web browser page including OSD menu control.
- Set up email alerts for warning messages.
- Ideal for large installations in both the educational and business environments.



Download Crestron RoomView® Express software from:
www.crestron.com/getroomview

Projectors purchased before December 2010 may require a simple firmware update to support Crestron RoomView®. Contact your dealer or an Optoma representative for details.

RS232 CONTROL

The extensive RS232 command set makes it simple and easy to control the EX610ST with any RS232 control system.

AMX Compatibility – Dynamic Discovery Protocol is incorporated into the EX610ST. This feature allows for easy installation with AMX control systems.



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 unauthorised adjustments ensuring the projector can only be controlled via the remote control.
- **+12v Trigger** - electric screen control
- **Logo Capture** - customise your start-up screen



SAVING MONEY

Virtually Maintenance FREE = Lower Total Cost of Ownership

EX610ST provides lower cost of ownership, longer life and improved reliability. The filter-free projector design does not require regular filter cleaning or filter replacement, saving you time and money.



CARING FOR THE ENVIRONMENT

The EX610ST incorporates energy saving features to conserve power and extend the lamp life:



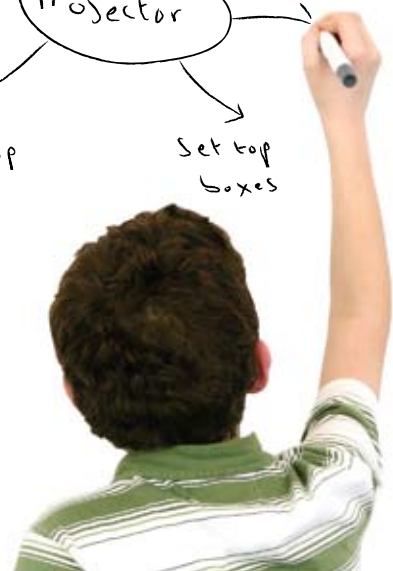
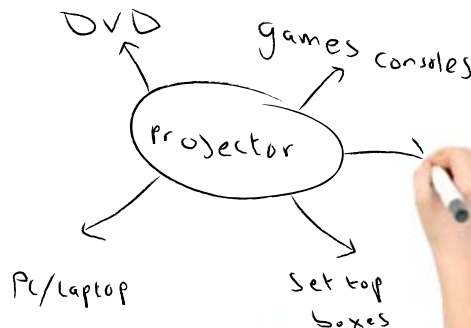
To achieve the maximum 4000hrs² lamp life time the projector should be operating in STD mode and the shut down timer should be enabled to automatically switch off the projector if it is accidentally left on when no longer required.



Optoma's low energy standard mode cuts ALL standard power consumption in half, enabling environmentally friendly power management and lower cost of ownership. It takes less than 10 seconds for the projector to power up and shutdown, saving both time and energy.

CONNECT WITH EASE

The EX610ST easily connects to multiple devices such as DVD players and games consoles. Powerful 10W speaker, loud enough for an average classroom or meeting room eliminating the need for costly external speakers. Simply connect, power up and project for the big screen viewing experience.



DISCOVER THE ADVANTAGES OF TEACHING IN 3D!



INSPIRE YOUR STUDENTS

Teaching in 3D is the latest innovation in education technology, opening up new avenues of learning for both educators and students alike. Engage and inspire your students with lessons taught in 3D – explore the world, travel through space, see inside the body and bring new ideas to life. Optoma 3D projectors take teaching to a whole new level of immersion and enjoyment... at no extra cost!

HOW DOES 3D WORK?

Using the inherent speed of DLP® technology, Optoma 3D-capable projectors can output video and images at an astonishing rate of 120Hz, allowing you to show full screen, full colour, stereoscopic 3D.

The 3D effect is generated by splitting this signal into two standard video streams, one for each eye. Using DLP® Link™ technology, the 3D glasses synchronise with the image on screen to filter each stream to the correct eye. Your brain then combines the two streams to make them jump into life.



WHAT YOU NEED

1. Optoma EX610ST
2. Optoma ZD101 3D Glasses
3. Quad-buffered graphics card (installed in a PC) and 3D educational software

For more information please visit www.optoma.eu/3deducation





EDUCATION[†]

[†] 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) or 3D Blu-ray will require the Optoma 3D-XL that is available separately. See website for updates.

EX610ST SPECIFICATIONS

Native Resolution	XGA 1024 x 768
Display Technology	Single 0.55" XGA DC3 DMD chip DLP® Technology by Texas Instruments
Brightness - BRIGHT mode ¹	3000 ANSI Lumens
Contrast	3000:1
Noise Level	29dB (STD mode)
Lamp Life ²	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 off]
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 www.optoma-europe.com or ask your local supplier for details
Colour Guarantee ³	5 Years
Imager Guarantee ⁴	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 the EX610ST can only be used with compatible 3D content and do not support 3D TV broadcast systems, including the 3D SKY service in the UK, or 3D Blu-ray. Support for these applications may be added in future using additional hardware.

Optoma Accessories

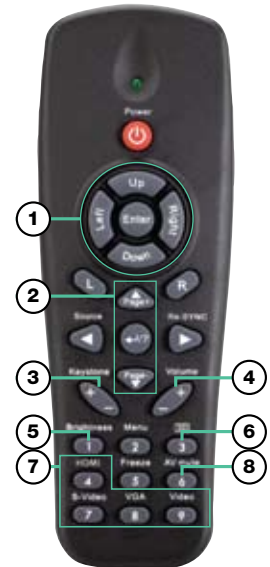
Projector Wall Mount - Part number: OPCWM835	
	Wall mount for the EX610ST Telescopic mount with height adjustment plate for versatile installation. Maximum projector image of 97" diagonal with the EX610ST.
Lamp - Part number: 23.8BW15G004	
	Optoma genuine lamp modules are designed and tested to work specifically with your Optoma projector to ensure quality, good performance and longevity.

Optoma Europe Ltd.
42 Caxton Way, Watford Business Park, Watford, Hertfordshire, UK. WD18 8QZ
www.optoma.eu

EASY TO USE REMOTE CONTROL

EX610ST Remote Control

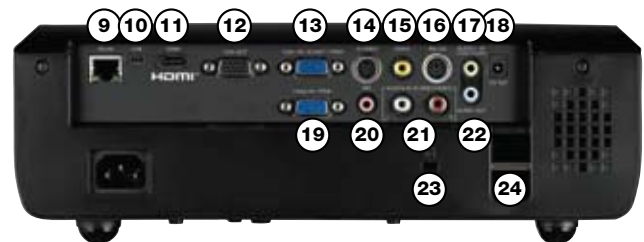
- 1 Remote Mouse
- 2 Page Up/Down control
- 3 Vertical Keystone Correction
- 4 Volume Control
- 5 Brightness Adjustment
- 6 3D Control
- 7 Direct Input Source Selection
- 8 AV Mute



EX610ST Connections

- 9 RJ45
- 10 USB (Remote Mouse)
- 11 HDMI (audio supported)
- 12 VGA Out
- 13 VGA 1- Scart & Component
- 14 S-Video
- 15 Composite Video
- 16 RS232
- 17 Audio In (VGA 1 & 2)
- 18 +12v Trigger
- 19 VGA 2- Component
- 20 Microphone
- 21 Audio In (S-Video & Composite)
- 22 Audio Out
- 23 Kensington™ Lock
- 24 Security Bar

Exceptional Connectivity / Multiple Terminals



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

For guide purposes only

EX610ST is capable of 16:9 aspect ratio projection. When projecting a 16:9 image the image sizes, screen height and offset information will differ from the above.



¹Brightness and lamp lifetime will vary depending on selected projector mode, environmental conditions and usage. As is common with all lamp based projectors, brightness will decrease over the lamp lifetime. ²Typical lamp life achieved through testing. Will vary according to operational use and environmental conditions. ³Optoma guarantees that in normal use, Optoma DLP® colour quality will be indistinguishable from when new. Exclusions: (a) Guarantee is voided if the projector is subject to damage through misuse. (b) Guarantee may be void in industrial or commercial entertainment environments where dust or smoke is excessive. (c) Guarantee will not apply if lamp brightness is below 50% due to wear or if the projector is not working due to other faults. (d) Over time worn lamps within all projector types will show a slight colour variance. ⁴Optoma guarantees that in normal use, the DLP® imager will retain image quality for at least 5 years and provide consistent pixel performance. Exclusions: (a) Guarantee is voided if the projector is subject to damage through misuse. (b) Guarantee may be void in industrial or commercial environments where dust or smoke is excessive. Copyright © 2010, Optoma Europe Ltd. All other product names and company names used herein are for identification purposes only and may be trademarks or registered trademarks of their respective owners. Crestron®, the Crestron and RoomView® logo are registered trademarks of Crestron Electronics, Inc. Errors and omissions excepted, all specifications are subject to change without notice. DLP®, BrilliantColor™ and the DLP logo are registered trademarks of Texas Instruments.