

ZU650+

New improved colour

- 20,000 hours maintenance-free laser light source at full brightness**
- Dust resistant – Independently tested, IP5X certified for total reliability
- 6000 lumens laser WUXGA DLP projector
- New improved colour - wider coverage of Rec. 709 colour gamut



ZU650+

The ZU650+ is the next generation ZU650 professional installation projector with enhanced colour that joins the DuraCore laser line up combining industry-leading lifetime of the light source with an independent dust resistant certification for ultimate peace of mind.

It boasts new improved colour fidelity thanks to a unique coating on the phosphor wheel which vastly improves reproduction of reds, yellows and greens. Providing up to an astonishing 20,000 hours of impressive, virtually maintenance free operation, this technology eliminates the need for lamp and filter replacements for an even lower total cost of ownership.

Designed for meeting rooms, boardrooms, auditoriums, museums and other large venues, the laser-phosphor light source delivers great colours and more consistent brightness, along with high resolution and contrast for stunning quality images. It is also ultra-quiet making the ZU650+ an ideal companion for quieter environments, smaller rooms or those with lower ceilings.

DuraCore

Industry leading lifetime is achieved using Optoma's DuraCore technology. Implementing advanced laser diode cooling techniques and an innovative dust resistant design. 20,000 hours provides a staggering 13 years of normal use*1 or 2.2 years if run continuously 24/7.



*1 6 hours per day, 250 days per year

Reinventing the colour wheel

The ZU650+ delivers exceptional punchy vivid images. Rich, lifelike colours are achieved through a new advanced coating on the phosphor wheel rendering superior colour fidelity, improving the overall performance of the projector.



Dust resistant optical engine

The ZU650+ has been independently tested and certified with an IP5X dust resistance rating. Out-standing resistance to dust in combination with exceptional brightness ensures industry leading durability; paramount for 24/7 maintenance free operation in challenging environments. The dust resistance was tested by an independent laboratory in accordance with IEC standard 60529 and certified with an IP5X rating. The dust resistant filter-free design prevents dust and dirt from affecting the system, ensuring optimal image quality with minimal maintenance.



Designed for meeting rooms, boardrooms, auditoriums, museums and other large venues, the laser-phosphor light source delivers great colours with sublime reds, more consistent brightness, along with high resolution and contrast for stunning quality images. It is also ultra-quiet making the ZU650+ an ideal companion for quieter environments, smaller rooms or those with lower ceilings.

Image quality

Superior image quality is the mark of assurance brought to you from every Optoma ProScene projector. The combination of innovation and cutting edge technologies translate to picture perfect consistently bright and fluid images.

ProScene chose the highly acclaimed DLP® technology for its image quality and unmatched reliability. The reflective nature of DLP® micro-mirror technology provides highly efficient bright images with great contrast whilst maintaining precise colour accuracy and natural, real-world colour reproduction. For demanding professional applications, the proven reliability of DLP® technology makes it the obvious choice.

Precision optics

High quality glass optical elements maintain optimum sharpness and focus uniformity over the entire image. The ProScene insistence on uncompromising optical quality ensures extremely low colour flare and chromatic aberration resulting in a crystal clear, high contrast image.



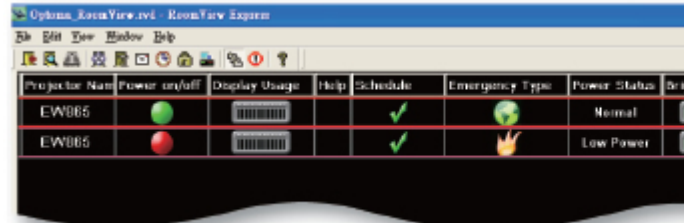
Ultimate control



Cut up to 30% from your energy bills using 24-hour automated power scheduling to ensure that projectors power off when not in use.

Reliability

All ProScene projectors are designed for continuous 24/7 operation. Only the most reliable, industry proven components are used to ensure superior reliability. This hard-earned "capability" has been meticulously developed over a decade of designing and supporting millions of projectors the world over. The dust-sealed, filter-free design prevents dust and dirt from affecting the system – ensuring optimal image quality with minimal maintenance. ProScene customers can therefore be confident that, as one of the most reliable projector brands in the industry today, Optoma has a reputation for service excellence that is well deserved.



Download Crestron RoomView® Express for free at www.crestron.com/getroomview

DLP® technology

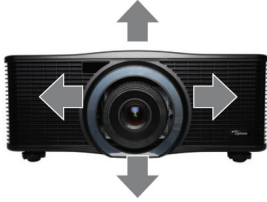
DLP® technology from Texas Instruments® is widely recognised and acclaimed for its unmatched reliability and long lasting image performance. When combined with high brightness and native contrast ratios, it becomes the obvious choice for demanding applications. Independent testing has proven DLP® to be the most reliable of projector technologies. Whilst other technologies may show image quality decline after only a few thousand hours, DLP® technology can remain unchanged over hundreds of thousands of hours. Images remain accurate, and colours suffer virtually no degradation over time.

Total cost of ownership

For demanding applications the total cost of ownership of a projector is not in the purchase cost but in expensive maintenance and service. ProScene projectors require very little maintenance, have no user serviceable parts inside and no filters that require periodic replacement. The result is low cost, predictable service cycles, enabling planned down time to be minimised.

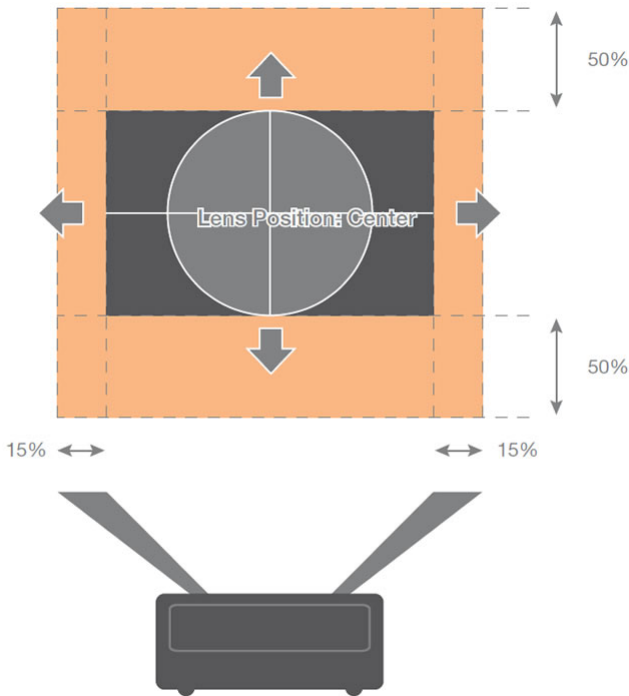
Installation flexibility

To help meet the seemingly limitless challenges of ProAV installations, the ZU650+ provides five lens options with motorised zoom and focus to ensure you can get the image size you require. Motorised lens shift helps you get the image exactly where you want it.



There are five optional lenses, all of which can be easily adjusted via motorised lens-shift, zoom and focus.

Motorised lens shift



*Lens shift percentage is dependent on lens, see user manual for details.


360° and portrait projection capability

Images can be projected over a full 360° range along the vertical axis, including reproduction on a ceiling or floor. The projector can also be placed in portrait mode for applications such as digital signage or for tall thin projection areas.

Quick start-up and shutdown

The ZU650+ features quick start-up and shutdown and reaches full brightness quickly. To maximise energy saving it also includes a 'pause projection' feature where the light source can be completely shut off. Unlike conventional lamp based projectors, the laser phosphor light source requires minimal cool-down time.

HDBaseT™

Uncompromising, uncompressed Full HD  video, audio, network and control commands all delivered on a single CAT- type cable capable up to 100 meters/328 feet without signal loss makes installation hassle-free. HDBaseT™ simplifies cabling requirements and reduces installation complexity saving both time and reducing costs.

Colour matching

This projector has a colour matching system, which combined with accurate measurements can create seamless blends every time.

Edge blending tools

No two projectors are completely identical. When performing complex, or even simple edge-blend projects using multiple projectors, it can be difficult to achieve good results if the images do not match.

Projector security

The ZU650+ features both a Kensington lock and security bar for enhanced theft prevention.

Custom ID colours

The ZU650+ is available in black as standard. However, if your project calls for a higher level of customisation, the ZU650+ is available in any colour from the RAL colour space system.



Please contact your local sales representative for more information.

System integration control

Multiple ZU650+ can be monitored over LAN and also provide the user with an email message alert in case an error occurs or a light source fails or needs to be replaced, using Crestron RoomView. While the web browser interface and full support for Extron's IP Link, AMX dynamic device discovery and PJ-Link protocols, allow almost all aspects of the ZU650+ to be controlled across a network, keeping you in control, wherever you are.



Global monitoring of all AV devices



Track projector light source usage



Email alerts and instant notifications - help desk requests, service reminders, device failure or theft



Event scheduling

Lens options

Optoma model name	A15
Focal length (f) (mm)	11.11 ~ 14.06
F number	2.30 ~ 2.53
Focus spec (MTF)	67 lp/mm
Zoom range (ratio)	1.26x
Zoom and focus adjustment	Motorised
Throw ratio (WUXGA)	0.75 ~ 0.95
Throw distance (m)	0.81 ~ 6.13
Projection image size	50" ~ 300"

Optoma model name A01
Focal length (f) (mm) 14.03 ~ 17.95
F number 2.30 ~ 2.57
Focus spec (MTF) 67 lp/mm
Zoom range (ratio) 1.28x
Zoom and focus adjustment Motorised
Throw ratio (WUXGA) 0.95 ~ 1.22
Throw distance (m) 1.02 ~ 7.88
Projection image size 50" ~ 300"

Optoma model name A02
Focal length (f) (mm) 18.07 ~ 22.59
F number 2.00 ~ 2.32
Focus spec (MTF) 47 lp/mm
Zoom range (ratio) 1.25x
Zoom and focus adjustment Motorised
Throw ratio (WUXGA) 1.22 ~ 1.53
Throw distance (m) 1.31 ~ 9.89
Projection image size 50" ~ 300"

Optoma model name A03
Focal length (f) (mm) 22.56 ~ 42.87
F number 2.30 ~ 3.39
Focus spec (MTF) 67 lp/mm
Zoom range (ratio) 1.9x
Zoom and focus adjustment Motorised
Throw ratio (WUXGA) 1.52 ~ 2.92
Throw distance (m) 1.64 ~ 18.87
Projection image size 50" ~ 300"

Optoma model name A13
Focal length (f) (mm) 42.60 ~ 80.90
F number 2.30 ~ 2.74
Focus spec (MTF) 67 lp/mm
Zoom range (ratio) 1.9x
Zoom and focus adjustment Motorised
Throw ratio (WUXGA) 2.90 ~ 5.50
Throw distance (m) 3.12 ~ 35.54
Projection image size 50" ~ 300"

Specification

Display Technology	DLP™ Technology by Texas Instruments, 0.67" WUXGA, DC3, Type A chip
Resolution	WUXGA 1920 x 1200
Brightness ¹ (Bright Mode)	6000 centre (5500 ANSI) lumens
Contrast	2,000,000:1 ExtremeBlack enabled (2000:1 full on/off)
ANSI Contrast	250:1
Typical lamp life ² Bright	20000 (hrs)
Lens Options	A15-0.75-0.95 A01-0.95-1.22 A02-1.22-1.53 A03-1.52-2.92 A13- 2.90-5.50
Throw Ratio	0.75 ~ 5.50 "lens dependent"
Zoom Type	Motorised
Lens Shift	Motorised lens shift, focus and zoom horizontal: +/-15% (typical; tolerance +/-4%) vertical: +/-50% (typical; tolerance +/-4%)
I/O Connectors	1 x HDMI, 1 x DVI-D, HDBaseT™, Component Video, 1 x VGA, VGA Out, RJ45, RS232, wired remote in, wired remote out, USB A
Keystone Correction	V: +/- 20 degrees H: +/- 20 degrees
Weight (kg)	18Kg
Dimensions (W x D x H)	484 x 509 x 185mm without lens
Aspect Ratio	16:10 native, 16:9/4:3 compatible
Projection Screen Size	Dependent upon lens
Projection Distance	Dependent upon lens
Projection Lens	5x lens options "no lens supplied as standard"
Uniformity	85% (centre)
Maximum Resolution	Native WUXGA (1920 x 1200)
Computer Compatibility	WUXGA, HD, UXGA, WXGA, SXGA+, SXGA, XGA, SVGA, VGA Resized, VESA, PC and Macintosh Compatible
Video Compatibility	PAL (625/576i/p), SECAM, NTSC (525/480i/p), HDTV (720p, 1080i/1080p)
Horizontal Scan Rate	15kHz to 100kHz
Vertical Scan Rate	25Hz to 85Hz
Displayable Colours	16.7 million
Noise Level (Eco mode)	33dB
Power Supply	100 – 240V AC @ 50 – 60Hz
Power Consumption	560W+/-20%@ 110VAC in normal brightness mode
Lamp Type	Laser Phosphor
Operating Temperature	for 0 ~ 2500 ft, 5 ~ 40°C for 2500 ~ 5000 ft, 5 ~ 35°C for 5000 ~ 10000 ft, 5 ~ 30°C
Security	4-digit PIN code, Kensington lock port, security bar
On Screen Display	18 languages: English, German, French, Italian, Spanish, Portuguese, Polish, Dutch, Russian, Finnish, Swedish, Greek, Norwegian/Danish, Hungarian, Czech
Remote Control	Infra-red remote control, wired connection
Standard Accessories	VGA cable, AC power cord, Infra-red remote control, 2 x batteries, user manual CD, quick start card, WEEE card, warranty card
Optional Wireless	Yes
360° Operation	Yes
Portrait Mode	Yes
Warranty	3 Years
Conformances	CE, TUV-GS, CB
RoHS	RoHS and WEEE
DICOM Simulation Mode	YES
Features	5x optional Lens, motorised full lens shift, Crestron RoomView®, PJ-Link, 360° operation



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¹Brightness and lifetime dependent on settings and environmental conditions

²Typical lamp life achieved through testing. Will vary according to operational use and environmental conditions

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