ZU510T

Brighter for longer – 30,000 hours full brightness

- 30,000 hours maintenance-free laser light source at full brightness
- Dust resistant – Independently tested, IP5X certification for total reliability
- 5500 lumens laser WUXGA DLP projector
- Exceptional brightness maintenance

ZU510T

Brighter for longer - 30,000 hours full brightness

With a 50% longer light-source lifetime than most of its peers, the ZU510T is the ultimate ‘fit and forget’ installation solution.

DuraCore laser

Industry leading lifetime is achieved using Optoma’s new DuraCore technology, implementing advanced laser diode cooling techniques and an innovative dust resistant design. 30,000 hours provides a staggering 20 years of normal use*1 or 3.4 years if run continuously 24/7.Remarkably, even after 5,000 hours the ZU510T brightness shows virtually no change, which in our experience is unique in the projector industry for this class of projector.

*1 6 hours per day, 250 days per year

Dust resistant optical engine

The ZU510T has been independently tested and certified with an IP5X dust resistance rating. Outstanding 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 was 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.

Industry leading colour performance

The ZU510T boasts a wide colour gamut and is designed to provide the best colour performance to match any application or environment. Our advanced colour technology, multiple settings and features enable users to enjoy long-lasting, reliable and precise colour – from vibrant, punchy presentations to lifelike images.

24/7 Operation

All ProScene projectors are designed for continuous 24/7 operation. Only industry proven components are used to ensure superior reliability.

Image quality

Where detail really matters, the full WUXGA (1920 x 1200) resolution offers 15% more pixels than 1080p. This enables unscaled Full HD video and extra detail.

Optoma laser projectors have adopted DLP® micro-mirror technology which provides highly efficient bright images with high contrast, maintaining precise colour accuracy and natural real-world colour reproduction.

Precision optics

High quality optical elements maintain optimum sharpness and focus uniformity over the entire image. Uncompromising optical quality delivers extremely low colour flare and chromatic aberration resulting in a crystal clear, high contrast image.

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.

We are so confident that the ZU510T image colour quality will remain as good as the day you bought it that Optoma will guarantee this projector for five years.

Hidden compartment

Uniquely, this model features a 3rd HDMI input in a compartment within the projector, providing an ideal solution for securely using your Optoma HD Cast Pro, Google Chromecast, Amazon Fire or similar HDMI stick to add smart wireless streaming on your projector . Conveniently this HDMI input supports MHL, meaning that for compatible MHL devices a power connection is not required. For devices that do not support MHL there is a USB power connector inside the compartment.

360° and portrait projection capability

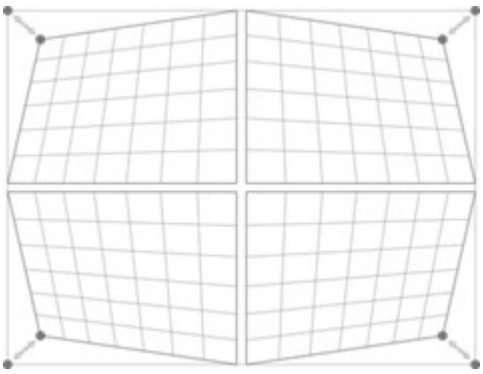
Images can be projected over a full 360° range along the vertical axis, including reproduction on a ceiling or floor. The projector can also be placed in portrait mode for applications such as digital signage or for tall thin projection areas.

Quick start-up and shutdown

The ZU510T 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- light source requires minimal cool-down time.

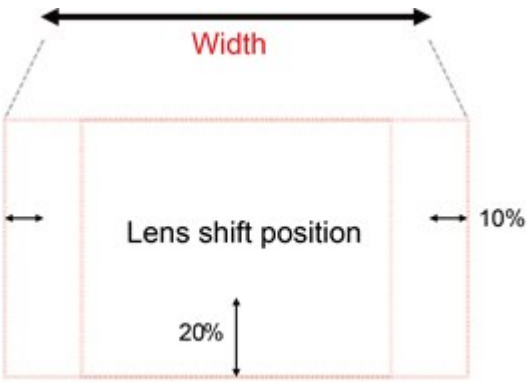
Corner adjustment

By individually adjusting each corner of the image, it eliminates any crooked or distorted images in off-angle or restricted space installations for that perfect picture.



PureShift

Simplify installation with PureShift, which provides a wide range of projector placement possibilities. Vertical lens shift : +20% Horizontal lens shift : -10% ~ +10%



Large zoom range

A large zoom range enables multiple placement possibilities at a variety of distances from the projection screen. An advantage to this is that expensive interchangeable lens projectors can be substituted with a more cost effective solution whilst still retaining a diverse choice of positioning options.

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.

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.

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. This projector incorporates the following features to ensure high quality and consistent results.

Projector security

The ZU510T features both a Kensington lock and security bar for enhanced theft prevention.

Custom ID colours

If your project calls for a higher level of customisation, the ZU510T is available in any colour from the RAL colour space system.

Please contact your local sales representative for more information.

System integration control

Multiple ZU510T's 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 ZU510T to be controlled across a network, keeping you in control, wherever you are.

Global monitoring of all AV devices

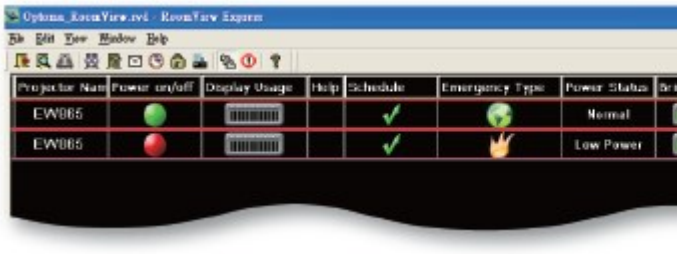
Track projector light source usage

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

Event scheduling

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.



Download Crestron RoomView® Express for free at

www.crestron.com/getroomview

Help alert

Real-time interactive help desk requests are sorted to come to the top. The help desk then has the ability to respond with an automatic message or instant message the room with exact procedures.

Display power

Check on/off status of display power and system power. View a bar graph to monitor the percentage of available projector light source usage and set an alert to notify the services department when maintenance is needed.

Display usage

A visual indication of light source or service interval status.

Schedule event

RoomView Express makes scheduling of recurring or one time events easy. Setting RoomView to automatically power down at midnight throughout the week can save valuable light source life and ensure security inside the facility.

Selected view by rooms, attributes or contacts

RoomView Express gives you the ability to simultaneously view more than 250 rooms from a single screen. Customise RoomView to view by room name, locations and group.

Event log

Automatically generates log files, reports and charts to analyze ROI and budget allocation. Track device usage, call statistics and user history.

Project Green

We know that improving our products is the best way to reduce our impact on the environment. That's why at Optoma we design our products to have a long usable life, use fewer materials, ship with the minimum packaging and be free of all possible toxic substances. Naturally, energy efficiency and being recyclable are built in at the design stage. With each new product, we strive towards minimising our environmental impact.

Eco friendly and highly efficient

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

Direct power on
The projector will start up instantly when power is supplied to the unit. This eliminates the need to manually turn on the projector via the remote control or the keypad, ideal for use in rooms with a “master” power switch.

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 light source.

Eco standby mode
Reduces energy consumption to less than 0.5W when the projector is not in use.

Specification

Display Technology	DLP™ Technology by Texas Instruments
Resolution	WUXGA 1920 x 1200
Brightness[1] (Bright Mode)	5500 centre lumens (5300 ANSI)
Contrast	300,000:1 (w/ dynamic black)
Typical lamp life[2] Bright	30000 hours to 50% brightness / Full brightness “Normal” (100% power) mode, temperature 25'C (hrs)
Throw Ratio	1.2:1 - 2.13:1
Zoom Type	1.8x manual
Lens Shift	+20% vertical, ±10% horizontal, manual
I/O Connectors	HDBaseT™, 3x HDMI, VGA In, Audio In, Mic In, VGA Out, Audio Out, RJ45, RS232C, Wired Remote, 12V Trigger, USB Power, Service Port, 3D Sync
Speaker	10W x 2
Keystone Correction	±30° vertical, ±30° horizontal
Weight (kg)	11
Dimensions (W x D x H) (mm)	403mm x 387mm x 148mm
Aspect Ratio	16:10 native, 16:9 and 4:3 compatible
Offset	100% - 120%
Projection Screen Size	28" to 302" (71cm - 767cm), 16:10
Projection Distance	1.3m - 7.8m
Projection Lens	1.8x manual zoom, manual focus
Uniformity	85%
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)
3D Support	Full 3D
3D Compatibility	Side-by-side, frame pack, over-under
Horizontal Scan Rate	15kHz to 100kHz
Vertical Scan Rate	25Hz to 85Hz
Displayable Colours	16.7 million
Noise Level (Eco mode)	28dB (Eco mode) / 33dB (Normal mode)
Power Supply	100 – 240V AC, 50 – 60Hz
Power Consumption	480W bright mode, 320W eco mode, <0.5W standby (LAN off)
Lamp Type	Laser-phosphor
Operating Conditions	90% max humidity, 3000m max altitude
Operating Temperature	5°C - 40°C
Heat Dissipation	1638 BTU/hr
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
Projection method	360° operation, Portrait mode supported
Features	PureShift lens shift, Crestron RoomView®, PJ-Link®, 360° operation, portrait projection
Warranty	5 Years/12,000hrs (light source)/ 3 Years/12,000hrs (projector)

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[1]Brightness and lifetime dependent on settings and environmental conditions

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

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