Optoma

PRO|SCENE

ZH300UW

Ultra-wide laser-phosphor interactive projection

Ultra-short throw lens and unique 16:6 aspect ratio
Lamp-less laser-phosphor light source
Ultra-wide HD resolution, 2x HDMI inputs
TouchBeam finger-touch interactive technology
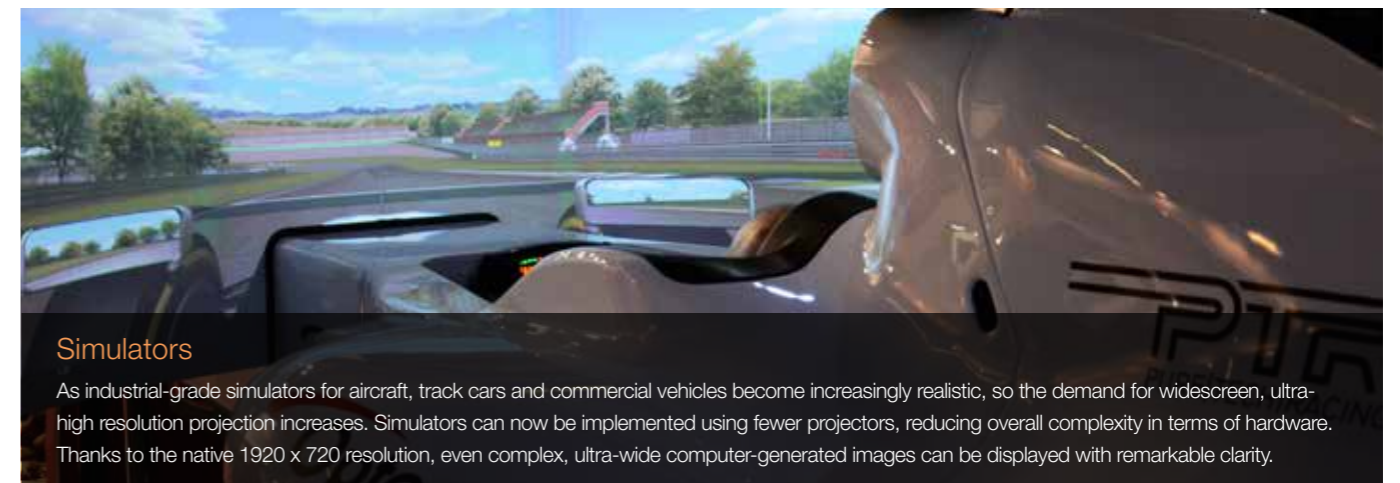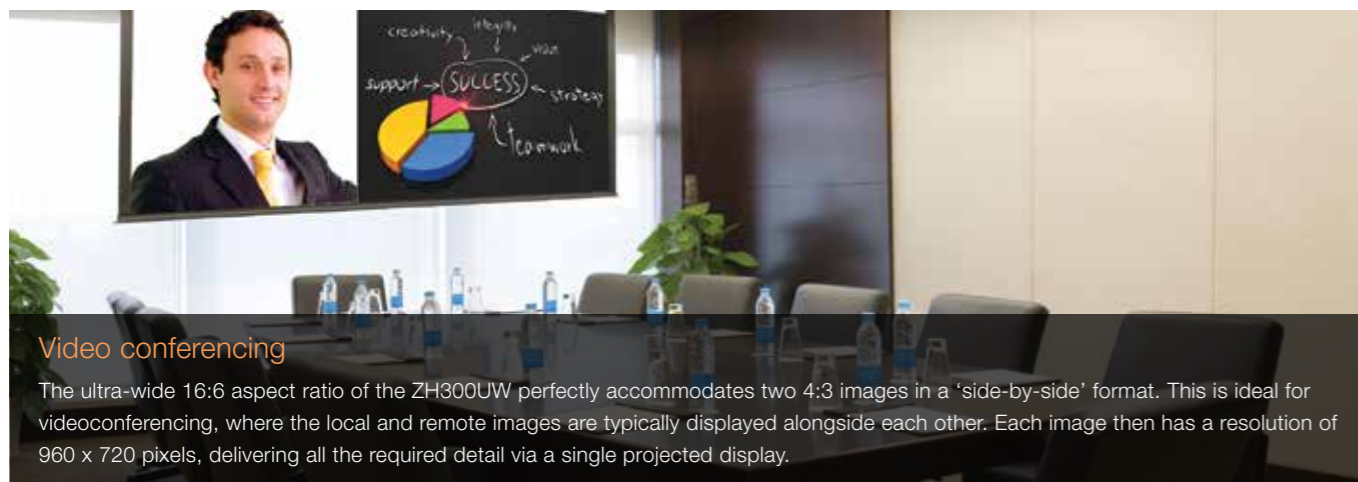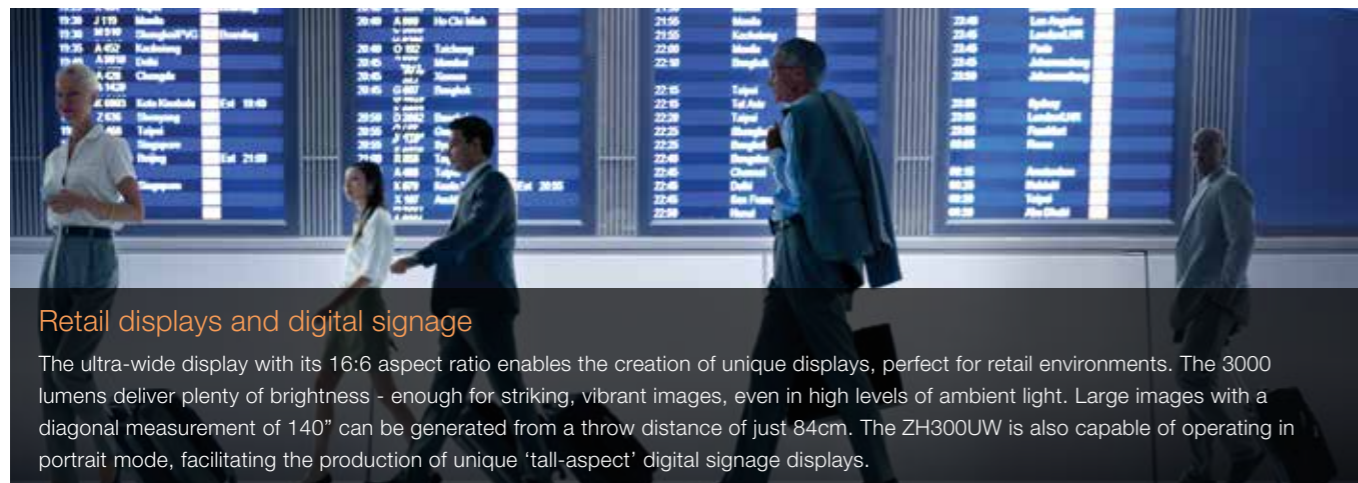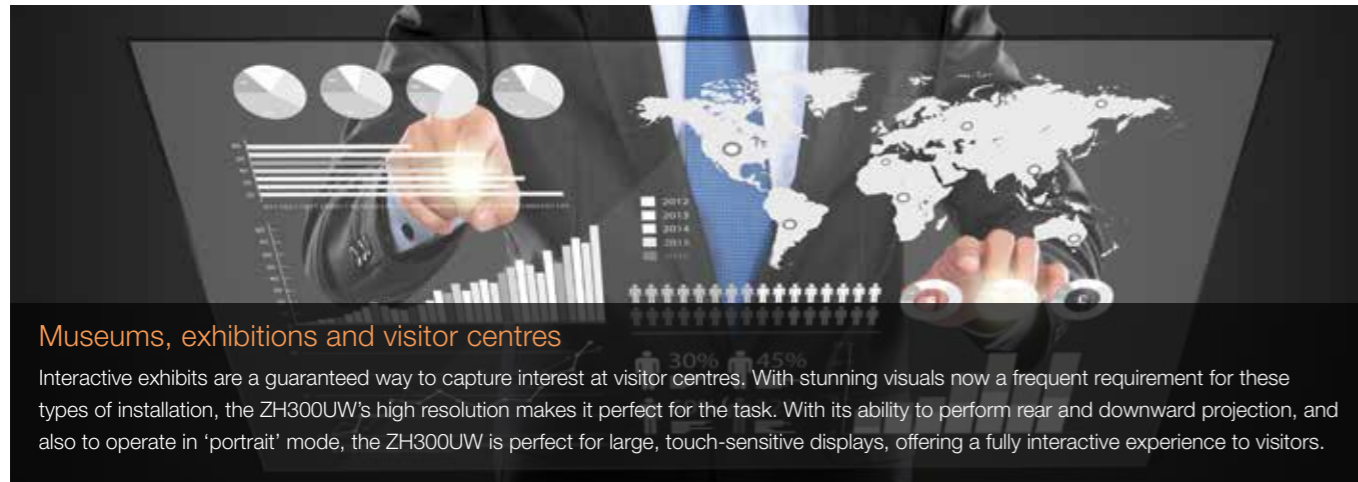Crestron RoomView® - RJ45 control and monitoring

ZH300UW

The Optoma ZH300UW is an ultra-wide short throw projector with a unique feature set, making it perfect for retail, corporate and education installations. The bright 3000 lumen solid-state light source uses laser-phosphor technology to replace the traditional projector lamp. A new generation of TouchBeam interactive technology enables several people to work simultaneously on the screen without using a pen, while the ultra-short throw (UST) projection lens generates a large 120" image from a throw distance of just 72cm.

The ZH300UW provides a complete package with many new features, including two HDMI inputs, powered USB port, 10W speaker, 20,000 hour light source lifetime, and a compact chassis with a new mounting system for fast and simple setup.

Example applications

The unique combination of features offered by the ZH300UW makes it suitable for a variety of special applications. No other projector delivers the unique blend of high resolution, ultra-wide 16:6 aspect ratio, ultra-short throw lens and solid state laser-phosphor light source, all backed up by Optoma's unsurpassed service offering.

Some examples of applications that can be achieved using this projector are illustrated below.

Museums, exhibitions and visitor centres

Interactive exhibits are a guaranteed way to capture interest at visitor centres. With stunning visuals now a frequent requirement for these types of installation, the ZH300UW's high resolution makes it perfect for the task. With its ability to perform rear and downward projection, and also to operate in 'portrait' mode, the ZH300UW is perfect for large, touch-sensitive displays, offering a fully interactive experience to visitors.

Retail displays and digital signage

The ultra-wide display with its 16:6 aspect ratio enables the creation of unique displays, perfect for retail environments. The 3000 lumens deliver plenty of brightness - enough for striking, vibrant images, even in high levels of ambient light. Large images with a diagonal measurement of 140" can be generated from a throw distance of just 84cm. The ZH300UW is also capable of operating in portrait mode, facilitating the production of unique 'tall-aspect' digital signage displays.

Video conferencing

The ultra-wide 16:6 aspect ratio of the ZH300UW perfectly accommodates two 4:3 images in a 'side-by-side' format. This is ideal for videoconferencing, where the local and remote images are typically displayed alongside each other. Each image then has a resolution of 960 x 720 pixels, delivering all the required detail via a single projected display.

Classrooms

Ideal for classrooms, the ultra-short throw lens enables teachers to stand close to the screen without being dazzled by the projector. The interactive 'TouchBeam' technology allows up to 10 pupils to participate, using only a finger. The laser-phosphor engine avoids the need for replacement projector lamps, which keeps running costs low - ideal for schools, where budgets are often limited.

Control rooms

High resolution and high contrast make the ZH300UW particularly suitable for installation in control rooms, where fine lines and small text must be clearly visible. In addition, the long lifespan of the laser-phosphor light source and DLP panel makes the projector capable of 24/7 operation, and therefore especially suited to 'always on' environments.

Simulators

As industrial-grade simulators for aircraft, track cars and commercial vehicles become increasingly realistic, so the demand for widescreen, ultra-high resolution projection increases. Simulators can now be implemented using fewer projectors, reducing overall complexity in terms of hardware. Thanks to the native 1920 x 720 resolution, even complex, ultra-wide computer-generated images can be displayed with remarkable clarity.

Engineering and design

CAD environments, architecture and 3D modelling all require projected images with absolute clarity and accuracy. The projector is fully 3D compatible, and can be used in conjunction with active shutter glasses to generate convincing 3D visuals.

PRO|SCENE

For more than ten years, Optoma has been at the forefront of the projector design and manufacture - one of the very few companies that focuses exclusively on projectors.

Today, the Optoma ProScene range represents the evolution of projection expertise, honed and refined by manufacturing and supporting millions of projectors the world over. This knowledge and skill has been distilled into the ProScene range of products and support services, which are designed specifically for demanding professional applications.

- ✓ Higher education
- ✓ Lecture theatres
- ✓ Houses of worship
- ✓ Museums
- ✓ Auditoriums
- ✓ Boardrooms
- ✓ Broadcast studios
- ✓ Large classrooms
- ✓ Exhibitions
- ✓ Conference rooms
- ✓ Digital signage
- ✓ Stage shows
- ✓ Live events
- ✓ Projection Mapping
- ✓ Meeting rooms
- ✓ Post production
- ✓ Theatre
- ✓ Trade shows
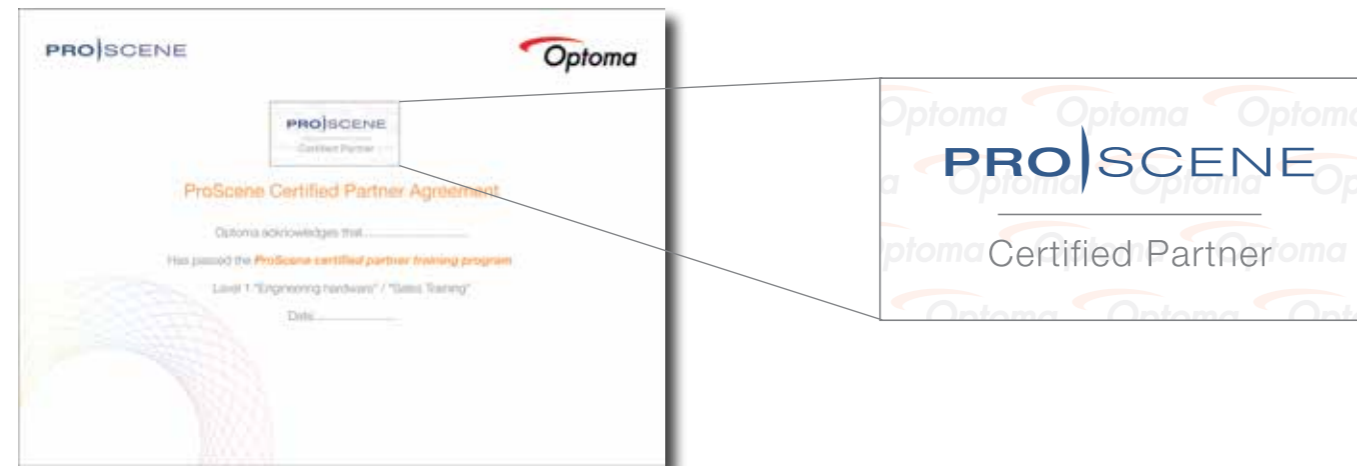
PRO|SCENE
Certified Partner

- • **Lamp-less laser-phosphor light source** - up to 20,000 hours of low maintenance, great colour and consistent brightness
- • **High resolution** - ultra-wide 1920 x 720 resolution with 16:6 aspect ratio
- • **Installation flexibility** - ultra-short throw lens with 0.25:1 throw ratio
- • **Bright, detailed images** - 3000 lumens and 10,000:1 contrast
- • **Unobtrusive** - compact, lightweight and quiet with optional wall mounting bracket
- • **Exemplary service** - a huge network of service centres across Europe, with extensive warranty and servicing packages

The Optoma ProScene ZH300UW is equipped with the latest laser-phosphor technology. Removing the need for a traditional projector lamp, the solid-state light source provides up to 20,000 hours of almost maintenance-free operation. Lamp and filter changes are avoided, resulting in vastly reduced running costs.

With its ultra-wide 16:6 aspect ratio, the ZH300UW is the ideal solution for boardrooms, meeting rooms and retail digital signage applications. The ultra-short throw lens has a projection ratio of 0.25:1, producing a large 140" image from a throw distance of just 84cm.

Optoma's TouchBeam interactive technology enables several people to work simultaneously on the screen without using a pen. Two 4:3 images can be displayed in a 'side-by-side' format format - perfect for video conferencing.

ZH300UW features

Lamp-less laser-phosphor light source

Up to 20,000 hours of low maintenance, great colour and consistent brightness.

Bright, detailed ultra-wide images

3000 lumens, 10,000:1 contrast ratio.
Ultra-wide HD resolution (1920 x 720 pixels).

Ultra-short throw lens

High-quality UST lens delivers large images from a short projection distance. Presenter dazzle and image shadows are avoided.

Dual HDMI inputs

Project crystal-clear images using either of the twin HDMI inputs. HDMI V1.4a is supported, including MHL on one of the inputs. Computer and HD video sources are supported, while separate audio cables are no longer required.

Exemplary service

A huge range of service centres across Europe and extensive warranty and servicing packages.

TouchBeam interactive technology

Allows several people to work on the screen concurrently, with no need for an electronic whiteboard or pen.

Image quality is of paramount importance for every product in the ProScene range. The ultra-wide DLP® chip has a unique 16:6 aspect ratio, while the precision short throw lens delivers a large 140" image from a throw distance of just 84cm.

ProScene uses 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.

Ultra-wide resolution

The ZH300UW features ultra-wide HD, with a resolution of 1920 x 720 pixels. This is ideal for the side-by-side display of two 4:3 images, each with a resolution of 960 x 720, making this projector perfect for video conferencing.

Digital signage and control room installations will also benefit from the ultra-wide 16:6 display, while the solid-state light source makes the ZH300UW perfect for 'always-on' applications.

1 960 x 720 / 4:3	**2** 1920 x 720 / 4:3
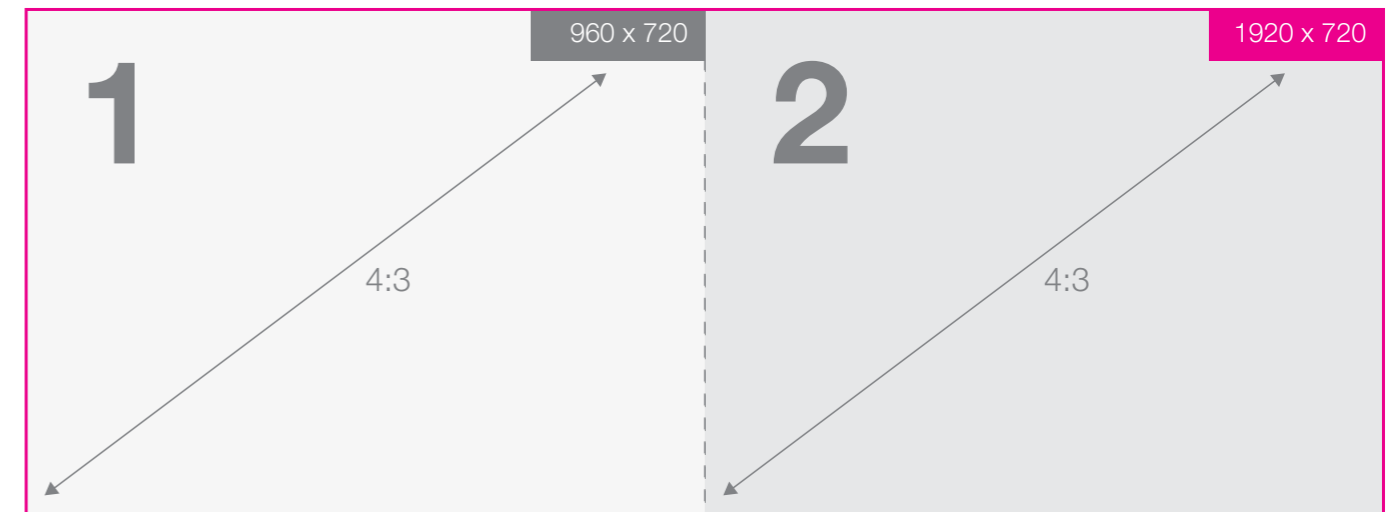
Unique Ultra-Short Throw Lens

Ideal for almost any room in educational and corporate environments, the ZH300UW makes the most of the available space. The specially designed ultra-short throw lens produces images up to 140" in diagonal from very short distances, allowing the presenter to stand close to the screen without casting a shadow on the image.
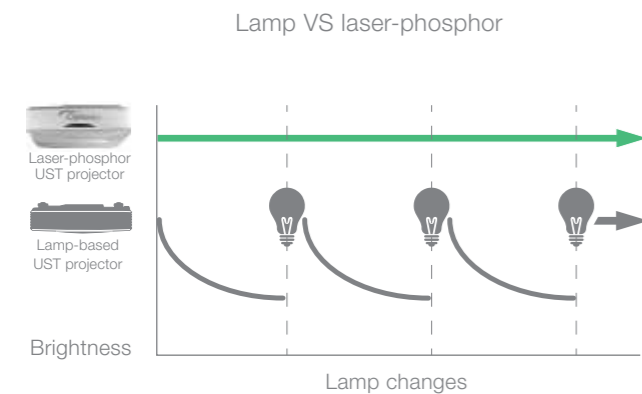
Reliability

Control

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.

24/7

System Integration and Control
Multiple ZH300UW projectors can be monitored over the LAN and can also send an email alert via Crestron RoomView in the event of an error or a lamp failure. Projector status can be monitored via a web browser, while Extron IP Link, AMX Device Discovery and PJ-Link protocols offer remote management of most functions across a network, keeping you in control wherever you are.
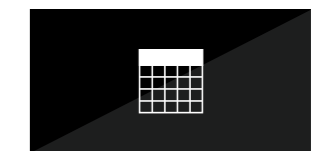
Global monitoring of all AV devices

Track projector light source usage

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

Event scheduling

Reduced running costs
The ZH300UW is fitted with the latest solid-state light source, which uses laser-phosphor technology. This has a life expectancy of around 20,000 hours. The result is a dramatic reduction in both the running cost and maintenance requirements of the projector.

Lamp VS laser-phosphor

Laser-phosphor UST projector

Lamp-based UST projector

Brightness

Lamp changes

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.

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

Enhanced colour gamut
The laser-phosphor light source provides benefits such as a sealed mercury free optical design to prevent dust entering the projector, minimal warm-up and cool-down time, and long life light source operation of up to 20,000 hours with minimal maintenance.

Total cost of ownership
For demanding applications, the total cost of ownership of a projector is not just in the purchase price, but also 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 ZH300UW image colour quality will remain as good as the day you bought it that Optoma will guarantee it for five years.

5 YEARS COLOUR GUARANTEED

Help alert
Real-time interactive helpdesk requests are sorted to come to the top. The helpdesk 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 service or facilities 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.
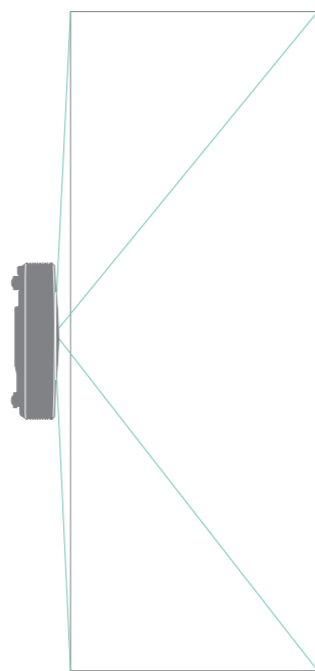
Installation flexibility

The ZH300UW has a unique, ultra-short throw lens, making it perfect for installation in smaller spaces. The presenter can stand close to the screen without being dazzled by the projector, or casting a shadow onto the image.
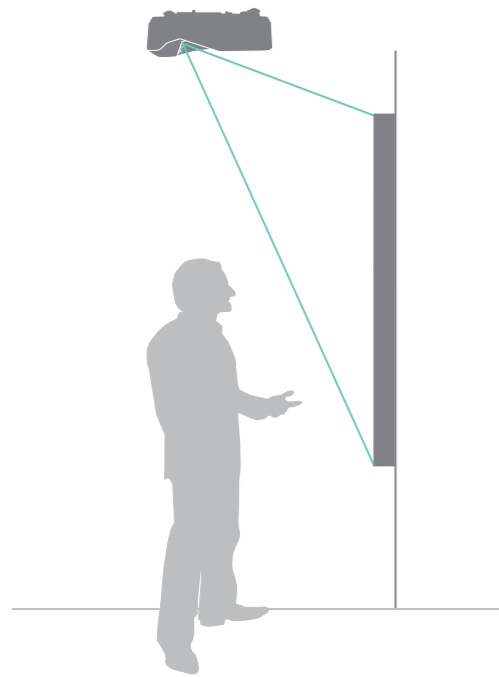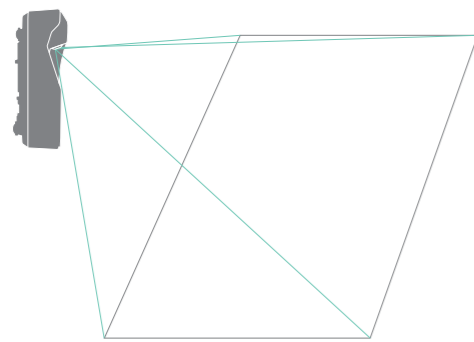
Ceiling mount projection
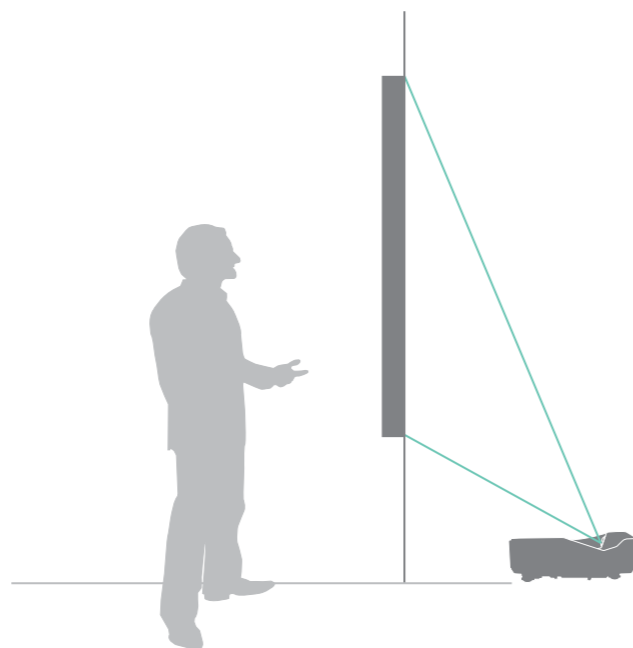
Downwards projection

Portrait and downward projection

Images can be projected in 'portrait mode', where the projector is operated on its side, to produce a tall, thin image. This is perfect for digital signage applications, particularly in retail premises.

Portrait mode

Rear projection

Dynamic Black

For situations requiring maximum contrast, DynamicBlack increases the black level, adding depth to the image. Images come alive and text appears crisp and clear.

Perfect projection

The ZH300UW offers vertical and horizontal keystone correction, within a range of ±5°.

Projector security

The ZH300UW features a Kensingston Lock slot to deter theft, while password protection prevents unauthorised use.

Next generation touch interactivity

Optoma TouchBeam finger-touch interactive technology allows total control without the use of electronic pens. Teachers and presenters can demonstrate their on-screen material, or invite others to join for collaborative discussions.

Audio capabilities

The powerful built in 10W loudspeaker can be used in conjunction with a microphone, to capture the attention of the audience. Expensive additional audio hardware and cabling can therefore be eliminated - ideal for smaller meeting rooms, where modest audio requirements would be sufficient.
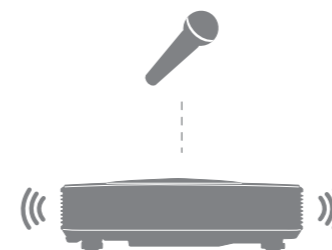
For larger installations, audio inputs from multiple sources can be handled, allowing the ZH300UW to act as an audio switcher and volume controller, in conjunction with an external amplifier and speakers.

Computer

DVD or Blu-ray disc player

ZH300UW

Audio amplifier and speakers
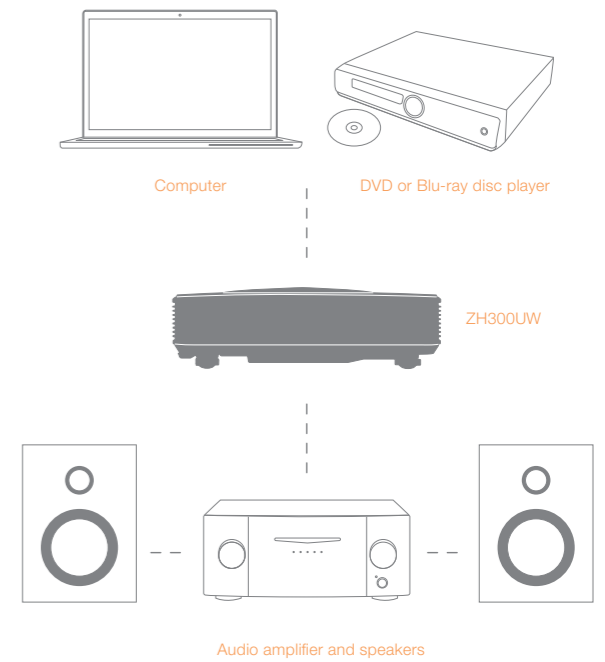
Enlarge your images

The digital zoom feature can be used to increase the magnification of a particular area, allowing explanation of the projected image in more detail.

X2.0

X1.0
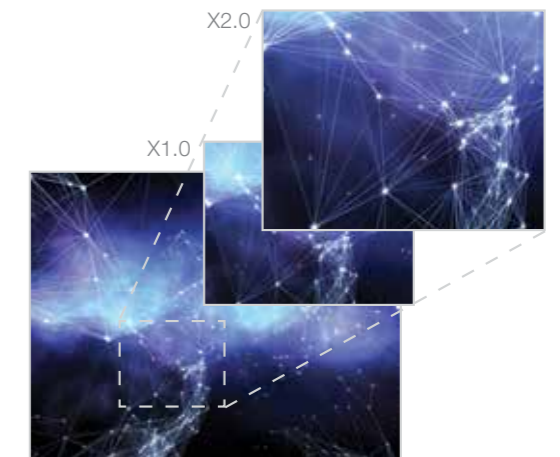
Input / output connections

1. VGA input 1
2. HDMI input 2
3. HDMI input 1
4. Interactive module / Service port
5. Network
6. Wireless network adapter / USB reader
7. VGA input 2 / VGA output
8. Composite video
9. Audio input 2 (composite)
10. Audio out
11. Audio input 1 (computer)
12. Microphone
13. Interactive module
14. Serial port (RS-232)
15. Kensington lock slot

Keypad

1. Power
2. Menu
3. Input
4. Direction keys

Projector		
	Display technology	1 x 0.65" DLP® chip, DarkChip3™
	Native resolution	Ultra-wide HD 1920 x 720 pixels
	Brightness[1]	3000 centre lumens (2700 ANSI)
	Contrast	10,000:1 (1800:1 full on / full off)
	Aspect ratio	16:6 native, 16:10 / 16:9 / 4:3 compatible
Optics		
	Light source	Solid state (Laser phosphor)
	Light source expected lifetime[2]	20,000 hours
	Projection lens	F/2.4, focal length 3.72mm
	Zoom / focus type	1.0x fixed zoom, manual focus
	Throw ratio	0.25:1 (projection distance: image width)
	Projection distance	0.72 - 0.84m
	Image size	120" to 140" (305cm to 356cm) diagonal, 16:6
	Keystone correction	Vertical +/- 5°, Horizontal +/- 5°
	Uniformity	80%
Connectivity		
	Inputs	HDMI x 2 - V1.4a, MHL 2.0 on Input 2
		VGA x 2 - 15-pin D-sub (Component via adaptor)
		Composite - RCA
		Audio In 1 (Computer) - 3.5mm mini-jack
		Audio In 2 (Composite) - Stereo RCA x 2
		Microphone - 3.5mm mini-jack
		USB Wireless / Reader - Type A
	Outputs	VGA Out - 15-pin D-sub (shared with VGA Input 2)
		Audio Out - 3.5mm mini-jack
	Control and communication	Network Port - RJ-45 (100BaseT)
		Serial (RS-232) - 9-pin D-sub
		Interactive / Service Port - Mini USB
		Interactive - 3.5mm mini-jack
General		
	Noise level[3]	32dB
	Weight	5.5kg
	Dimensions (W x D x H)	383 x 310 x 126mm
	Power requirements	100 - 240V AC @ 50 - 60Hz
	Power consumption	335W bright mode, 225W eco mode, <0.5W standby
	Operating conditions	5°C - 40°C, 90% max humidity, 3000m max altitude
	Portrait mode	Yes
	360° operation	No - Downward projection only
	OSD languages	17 Languages: English / German / French / Italian / Spanish Polish / Swedish / Dutch / Portuguese / Japanese Trad Chinese / Simp Chinese / Korean / Russian / Arabic Norwegian / Turkish
	3D compatibility	Side-by-side, frame pack, over-under
	Built-in audio	10W speaker
	Security	Kensington Lock port, security bar, password protection
	Warranty	3 years
Supplied accessories		
	Cables	AC mains power cable
		VGA cable
		USB cable
		Interactive cable
	Components	Remote control handset
		'AAA' batteries
		TouchBeam interactive module
		Interactive pens x 2
		Quick start guide
		User manual (CD)
		Warranty card