

## LED DISPLAYS

Custom sizes / resolutions

Pre-designed Full HD / UHD 4K displays









# MAKE A BIG IMPRESSION WITH AN OPTOMA LED DISPLAY

Optoma offers engineered solutions for both pre-configured and bespoke display designs across a range of pixel pitches. Driven by image quality and reliability, the range includes world-class scalers and switchers for large format displays (LFD), video walls and direct view LED displays.

## Experts in big screen solutions

Optoma has a vast experience in providing support and solutions across the ProAV sector. Solutions include pre-configured LED displays to large scale customisable screens across a range of pixel pitches.

## Fully optimised FHD / UHD displays

For the ultimate out of the box all-in-one display, Optoma's QUAD series offers the perfect cutting-edge solution. Simplify the traditional setup and installation process, with pre-configured FHD / UHD displays available in 1.5 / 2.0 and 2.6mm pixel pitches.

## Customisable to you

Designed with the user in mind, our LED displays are available in a number of pixel pitches and customisable sizes. A narrow depth and front access enables direct installation onto current internal walls\* removing the need for additional mounts.

*\*When installing directly onto internal walls, check with a structural engineer to ensure load-bearing properties.*

## Listening and responding to our customers' needs

Optoma is proud of its working relationships, looking to support partners with new technologies and innovative solutions. We continually target improvement of products and processes by focusing on what matters most to our customers.

## Peace of mind

Optoma is renowned for excellent quality with in-house European based service, maintenance and an infrastructure of service centres across Europe. With stock located in Europe, all solutions go through a dual level quality check prior to delivery. Optional European based warranties to suit business needs are available.

## Scaler / switchers

Optoma technology powers its LED display solutions. World class technology is included in a full range of signal processing products, such as HQUltra 4K image processing which delivers best in class picture quality, low latency video processing and seamless switching.



Corporate



Higher education



Retail



Digital signage



Leisure and hospitality

eBa



 The Bank

# OPTOMA QUAD LED DISPLAY SOLUTION

## Fully Optimised Full HD displays

The fully optimised 130" (2.88 x 1.62 m) Full HD 1080p LED display is an all-in-one solution for a quick and easy out-of-the-box installation.

Displays	FHDQ130
Display resolution	FHD 1080P
Display size	2.92m x 1.66m (130" diagonal)
Pixel pitch (H x V)	1.5 mm
Minimum viewing distance	1.5 m
Contrast	5000:1
Panel depth	71 mm
Standard panel weight	125 kg
LED fixings	Front access
Operating temperature range	0 to +40
Refresh rate	≥3000
Brightness (before calibration)	600 nits
Lifespan	>100,000 hours
Mounting frame	Optional
Included components	
Scaler-switcher	Built-in
Sender	Built-in



*\*Mounting frame optional*

## QUAD pixel LED structure

The FHDQ130 introduces a unique 4-in-1 SMD layout which sees SMDs grouped in fours under one surface, allowing for a smoother screen surface, wide viewing angle and a more robust design.



## Quick and simple installation process

With a simple three step process, the complexity of a traditional LED build and installation is removed. Simply connect the display sections, mount the display and apply LED tiles to the connecting area. With this unique pre-build process, installation time required is dramatically reduced from days to hours.

## Fully optimised LED display

The FHDQ130 comes pre-calibrated out-of-the-box, removing the hassle of managing software and the various associated files, whilst ensuring the image is optimised for use straight away. Integrated HQUltra and media player technology eliminates the need for any additional separate devices associated with traditional LED solutions.

## Connectivity and control

A range of connectivity and control options are available on the FHDQ130 including dual HDMI, USB, RS232 and HDBaseT. In addition, users can take advantage of Optoma's Connect Q application to control the display from smart phone or tablet.

## ECO friendly

Boasting an ECO friendly <0.5W standby mode, that conforms with ErP regulations and the ability to control the display from a central control system, power consumption is reduced which saves on energy costs.



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## FULLY OPTIMISED FHD / UHD LED DISPLAYS

Displays	FHD153169	FHD20422	FHD26528	UHD156338	UHD20845	UHD261056
Display resolution	FHD 1080P	FHD 1080P	FHD 1080P	UHD 4K	UHD 4K	UHD 4K
Display size	3 x 1.69 m (136" diagonal)	4 x 2.2 m (180" diagonal)	5 x 2.8 m (226" diagonal)	6 x 3.38 m (271" diagonal)	8 x 4.5 m (361" diagonal)	10 x 5.6 m (452" diagonal)
Pixel pitch (H x V)	1.5 mm	2.0 mm	2.6 mm	1.5 mm	2.0 mm	2.6 mm
Minimum viewing distance	1.5 m	2.0 m	2.6 m	1.5 m	2.0 m	2.6 m
Contrast	4000:1					
Panel depth	56 mm					
Standard panel weight	4.3 kg					
LED fixings	Front access					
Operating temperature range	-10 to +50 °C					
Refresh rate	3660Hz	3840Hz	3840Hz	3660Hz	3840Hz	3840Hz
Brightness (before calibration)	800 nits	1,000 nits	1,000 nits	800 nits	1,000 nits	1,000 nits
Brightness (after calibration)	650 nits	800 nits	800 nits	650 nits	800 nits	800 nits
Lifespan	>100,000 hours					
Mounting frame	Optional					
<b>Included components</b>						
Scaler-switcher	Optoma LS200					
Sender	Optoma MCTRL660			Optoma CTRL4K		

## LED PANELS FOR CUSTOM DISPLAY SIZES

Optoma's THD series are available in 1.5mm to 3.9mm pixel pitch allowing you to create custom screen sizes and LED displays to suit your needs. The THD series are seamless modular 16:9 displays, with high contrast and brightness levels, designed for surface mounting with front install and maintenance as standard.



## THD SERIES

Panels	THD1560	THD2080	THD2600	THD3125	THD3910
Pixel pitch (H x V)	1.5 mm	2.0 mm	2.6 mm	3.1 mm	3.9 mm
Pixel resolution (width)	320 pixels/panel	240 pixels/panel	192 pixels/panel	160 pixels/panel	128 pixels/panel
Pixel resolution (height)	180 pixels/panel	135 pixels/panel	108 pixels/panel	90 pixels/panel	72 pixels/panel
Panel width	500 mm				
Panel height	281.25 mm				
Panel depth	56 mm				
Panel weight	4.3 kg				
Maintenance access	Front				
Refresh rate	3660Hz	3840Hz	3840Hz	3840Hz	3840Hz
Brightness (after calibration)	650 nits	800 nits	800 nits	800 nits	800 nits
Contrast ratio	4000:1				
Lifespan	>100,000 hours				
Mounting frame	Optional				





# LED DISPLAY SCALING AND SWITCHING

Optoma LED scaler-switchers are designed for use with our LED displays.

HQUltra 4K image processing technology delivers best in class picture quality and low latency video processing. Inputs can be switched seamlessly in as little as 0.25 seconds. The same processor can drive loudspeakers in meeting rooms and smaller conference rooms, plus line level balanced stereo outputs to drive an external amplifier or powered loudspeakers.

The MCTRL660 controller for Optoma LED displays allows you to manage your visual needs from a single master controller with the ability to display images up to a total of 2.3m pixels (min 256, max 2560 H/V pixels). Featuring HDMI and single link DVI inputs it accepts most common display resolutions.

## MCTRL660



## SCALER-SWITCHER RANGE

### LS200



### LS200T



### LS300T



### LS1000



Model	LS200	LS200T	LS300T	LS1000
HDMI 4K inputs	•(2)	•(2)	•(2)	
HDMI HD input	•	•	•	
DVI/HDMI HD input	•	•	•	
HDBaseT 4K input	-	•	•	
DisplayPort 4K input	•	•	•	
Component input			DVI-U	
Composite input	•	•	•	
VGA Analog input	•	•	•	
3G-SDI input(s)	-	-	•(2)	
Streaming video input (via network port)	•	•	•	
Analogue audio input and outputs	•	•	•	
Power amp 2 x 15W (RMS)	•	•	•	
DVI / HDMI HD output	•	•	•	
HDMI 4K output	•	•	•	
HDBaseT 4K output	-	•	•	
3G-SDI output	-	-	•	
3G-SDI audio embed/de-embed and SPDIF	-	-	•	
4K, 4:4:4, 60Hz	-	-	-	•
HQUltra 4K low-latency processing	•	•	•	•
HQUltraFast high speed input switching	•	•	•	•
Picture in Picture (PiP)	-	-	•	•
TCP/IP webserver and API control	•	•	•	•
Genlock – H and V or crosslock	-	-	•	•
Pan, zoom, tilt	•	•	•	•
LED display scaling	•	•	•	•
LED display splicing	•	•	•	•
Custom LED sizing	-	-	-	•
Separate pan / zoom per layer	-	-	-	•

MODULAR CONNECTIVITY OPTIONS AVAILABLE

# SERVICE / SUPPORT / WARRANTY

## Pre-sales / post-sales support

An established local network of support technicians to help you with your project specification / design and technical questions.

## Superior quality control and service network

Exceptional two-tiered quality control teams both on site at the factory and in Europe, combines with Optoma's local service centres to ensure the exceptional colour calibration and consistency throughout the lifecycle of our LED displays.

## Logistics support

An established European based distribution network ensures your solution arrives where its needed on time.

## Flexible warranty

Building on Optoma's extensive service and support structure, you can be assured we have a solution to suit your needs:

- ✓ Standard LED display warranty
- ✓ Advanced LED display warranty options\*
- ✓ Onsite technical support
- ✓ Spare parts advance replacement
- ✓ Unlimited phone / email support

\*To be discussed with your local sales contact

## Optoma Head offices





# PRODESIGN

## Professional services

At Optoma, we benchmark our success on the outcome of our customers' projects, not the products sold that feature in them. Our dedicated in-house technical services team offer total system support for all projector and LED display project requirements for AV newcomers and technology veterans alike. High performance professional installations invariably require detailed technical support.

Our experienced engineers are available to assist from the initial design and planning, right through to commissioning and beyond.

### Consultation and technical advice

#### Consultative services

- ✓ Design assistance
- ✓ Product and application advisory
- ✓ Content specification

#### Technical documentation

- ✓ Technical drawings
- ✓ Datasheets
- ✓ Software

### Calculations, surveys and engineering drawings

#### Calculations

- ✓ Custom LED display size and resolution designs
- ✓ Total cost of ownership

#### Site surveys

- ✓ Project site survey
- ✓ Onsite product demonstrations
- ✓ Shootouts

#### Technical documentation

- ✓ Custom LED display size and resolution designs

### Training and support

#### Remote support

- ✓ Direct line helpdesk
- ✓ Remote system diagnosis with secure connection
- ✓ Email direct

#### On site commissioning

- ✓ Optoma product setup
- ✓ Servicing

### Local support

#### Authorised service providers in more than 100 countries!

Optoma's commitment to delivering unparalleled customer service is reflected in its global presence of authorised service providers.

## ProDesign

Some services are chargeable.

Enquire now: [prodesign@optoma.eu](mailto:prodesign@optoma.eu)

