LED DISPLAYS

Custom sizes / resolutions
Pre-designed 4K UHD / Full HD displays

LED

4K UHD

Full HD
1080p

SCHINDLER
CASE STUDY

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 UHD / FHD 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 UHD / FHD 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 several pixel pitches and customisable sizes. A narrow depth and front access enable 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 the 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 before 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

"We chose Optoma because Optoma has the best products but we didn't only choose Optoma for the products, we chose them because of their service and partnership with us. The building is 80% ready, just because we have the LED up and running. I saw it today and I thought 'WOW', I'm really excited to show our new re-designed headquarters to our guests and customers."

Pau-y Chow | Senior Product Manager in the Digital Innovations division at Schindler

Solution shown | FHD26528

bnNETZE CASE STUDY

FHDQ130 (QUAD)

Easy install

Thanks to Optoma's simple 3 step process, we have reduced installation time from days to hours giving you more time to focus on calibration and ensuring the customer gets to enjoy the unparalleled quality of our QUAD display.

This simple one box solution covers all installation options to include a wall and ceiling mount for install flexibility.

Power saving

Optoma's QUAD range can be switched on/off just like a TV. Additionally, units consume next to no power when in standby (0.5W) saving you money over the lifetime of the product vs traditional LED displays. In addition to low power consumption, QUAD displays can simply be plugged directly into the mains avoiding the need for bespoke installation.

Easy to use

Optoma's all-in-one solution allows you to achieve great results with any possible image source (up to 4K UHD). In addition to the QUAD's handheld remote, switching between different inputs can also be managed externally by RS232 or by our renowned Connect Q app which is the smartest way to interact with our QUAD range using an Android or iPhone device.

Easy to move

The QUAD is a lightweight, smart solution that can easily be wheeled around your office with the optional motorised stand and will fit through most doorways.**

Delivered in a dedicated low footprint flight case, all hardware required for a quick install is included.

**Screen height is 201cm - please ensure local compatibility.

Flexible viewing angle

When your audience is positioned off-angle, image quality on most LED displays can be compromised. With the Optoma QUAD range, there is no need to compromise on image quality. With a 170 degree viewing angle, audiences can be assured of striking images in the tightest of seating arrangements, providing all viewers with the high quality content they deserve.

Brings light to your meeting

Not every end user has control over their ambient light conditions. Our QUADs feature high quality 600 nit 4-in-1 SMD structure. This allows for uncompromised long lasting quality in the brightest of environments and also comfort in dimly lit meeting rooms.

Quick calibration, no cables, no mess

The QUAD comes pre-calibrated out-of-the-box, removing the hassle of managing cables, software and the various associated files, whilst ensuring outstanding image quality.

170°

"Optoma was the clear choice for us. In addition to easy and quick installation, which was very important in this case, we were also very impressed with the quality."

Maik Kohlbecker | Owner of Konferenzraum TV

Solution shown | FHDQ130

FHDQ163 (QUADZILLA)

In addition to the QUAD, the new QUADZilla display comes with many additional benefits.

Wireless content sharing

Speed up meetings by seamlessly connecting devices with the Optoma TapCast Pro app.

The FHDQ163 enables wireless content sharing for up to 4 devices simultaneously at the tap of a button. Enable BOYD, connect with any Windows / Android / iOS and Chromebook device so you can focus on the content while the screen does the rest.

Remote Management

Optoma ProService gives you peace of mind when it comes to managing your device wirelessly from anywhere in the world. Switching inputs, updating settings, or even sending alert messages, has never been easier.

Scalability

If your business grows, FHDQ163 grows with it: you can upscale your screen size by simply connecting multiple FHDQ163 displays. The extra-slim bezel is easily removable allowing you to build an even larger image.

Any input, powerful output

A wide range of connectivity options including dual HDMI, USB, RS232 and HDBaseT, gives you the freedom to choose between collaborating on an Excel spreadsheet or aiming for a new high score on the latest games.

When more speed is needed, the OPS slot allows you to plug an optional Intel compatible device to ensure you are never short on processing power.

Control in your hands

Whether you want to use your LED display to run motivating corporate content, presentations or the latest movie release, the FHDQ163 has pre-set picture modes so you always get the best viewing experience. In addition to pre-set modes, users can also customise and save image settings for ultimate flexibility.

QUADSHOW

Easy install in minutes
The simple set-up process eliminates the complexity of a traditional LED build - dramatically reducing installation time to just a few minutes. This allows more time for fine tuning and calibration of displays.

Easy to move
Moving a 130" LED display has never been easier thanks to an innovative stand and flight case combination that adds additional protection during transit and enhances the receiving experience on arrival.

Motorised flexible solution
An all-in-one motorised lift and transport system enable flexible use of the QUAD for effortless installation and disassembly.

For added flexibility, the built-in display stand features height adjustment and screen rotation so the QUAD can be positioned in landscape orientation for daily use or portrait mode for digital signage.

THD SERIES

Flexible installation
Our modular LED displays are versatile and can be attached to almost any surface strong enough to support the weight. This means you can install our displays virtually anywhere with peace of mind.*

The power management system also makes installation simple with almost unlimited entry points meaning you can take power from whatever direction suits you.

*For best results, Optoma recommends using a smooth length of 15mm MDF, Ply or Gyproc habito. When conducting structural work please consult a structural engineer.

Changeable to suit your needs
We use an interchangeable cabinet and tile solution that means if your needs change it is possible to replace the tiles with a new batch of a different pixel pitch.

But why would you need to? If your viewing experience needs to change, it would be possible to replace the tiles at a cost. This would take away the need to re-build the whole solution.
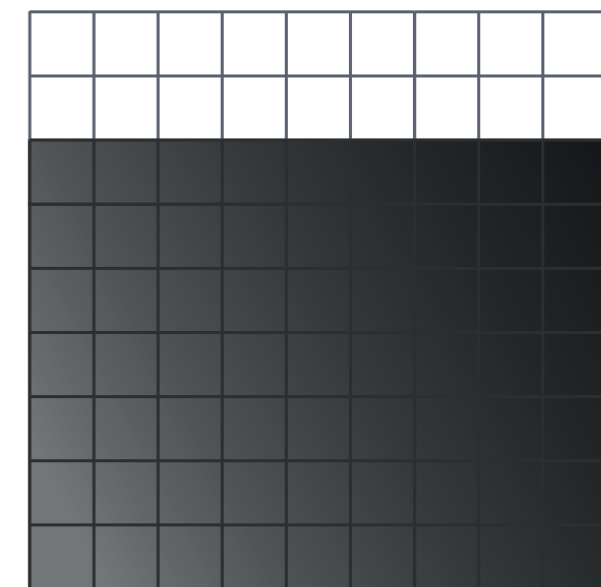
Limited downtime
We want to make sure you always have your display performing at its best. To achieve this, all LED repairs handled locally within our EMEA headquarters.

In addition, not only do we leave spare tiles with the customer but we also keep some on site all from the same batch.

Accidental damage and faults do happen, so in this instance the end user would simply swap the magnetic tile and ship the faulty tile to us. We would in turn ship a spare, and the faulty goes back into our spare pool once repaired. No hassle, no downtime, fast service.

Front access
This makes both installation and maintenance straightforward. Simply remove the magnetic tiles, and you have full access to the cabinet. This means more of the install time can be spent on tweaks and calibration to get that picture perfect image.

E-CAMPUS
CASE STUDY

LED DISPLAY SCALING AND SWITCHING

Optoma LED scaler-switchers are designed for use with our LED displays. HQUltra 4K image processing delivers best in class image quality and low latency processing, along with a range of connectivity options to suit your installation needs.

Modular design
Designed for professional ProAV and LED large venue applications, LS1000 features a modular architecture for ultimate flexibility. As your requirements change the LS1000 can change with them.

Image Processing
For ultimate image quality, the LS1000 features 4K50/60Hz 4:4:4 image processing algorithms that generate vivid, sharp and detailed images, supporting 4K and four-layer PIP - great for broadcast and live events.

Instant Access
To ease user operation, there are up to 30 pre-sets, allowing users to store and easily recall different display layouts. Each pre-set stores source, size and position, which can be easily previewed on the built-in display.

Flexibility
Additional features include vertical and horizontal flips, support for input area-of-interest (AOI), external control, freeze and full colour management. This is perfect for a multitude of scenarios such as live events and broadcasting.

LS1000

Other scaler / switchers in range

LS200

LS300T

LS200T

MCTRL660

FHDQ130 (QUAD)

Display	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 (min/max)	38/71 mm
Standard panel weight	125 kg
LED fixings	Front access
Operating temperature range	0 to +40
Refresh rate	≥3000
Brightness	600 nits
Lifespan	>100,000 hours
Mounting frame	Included
Included components	
Scaler-switcher	Built-in
Sender	Built-in

FHDQ163 (QUADZILLA)

Display	FHDQ163
Display resolution	FHD 1080P
Display size	3.6m x 2.025m (163" diagonal)
Pixel pitch (H x V)	1.875 mm
Minimum viewing distance	1.9 m
Contrast	5000:1
Panel depth (min/max)	35/79 mm
Standard panel weight	191 kg
LED fixings	Front access
Operating temperature range	0 to +40
Refresh rate	3840
Brightness	600 nits
Lifespan	>100,000 hours
Mounting frame	Included
Included components	
Scaler-switcher	Built-in
Sender	Built-in

QUADSHOW

QUADShow specifications	
Total weight (excluding FHDQ130)	506kg
Stand weight (excluding FHDQ130)	220kg
Flight case weight (excluding FHDQ130 and stand)	286kg
Stand dimensions (including FHDQ130)	2919 x 736 x 1805mm
Flight case dimensions	3030 x 822 x 1985mm
Stand lifting range	1805 - 3165mm
Power supply	230 V AC / 50Hz

SCALER / SWITCHERS

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	-	-	-	•
Seperate pan / zoom per layer	-	-	-	•

MODULAR CONNECTIVITY OPTIONS AVAILABLE (LS1000)

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	54 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					
Included components						
Scaler-switcher	Optoma LS200					
Sender	Optoma MCTRL660			Optoma CTRL4K		

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	54 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				

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 combined with Optoma's local service centres, ensure 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 it is needed on time.
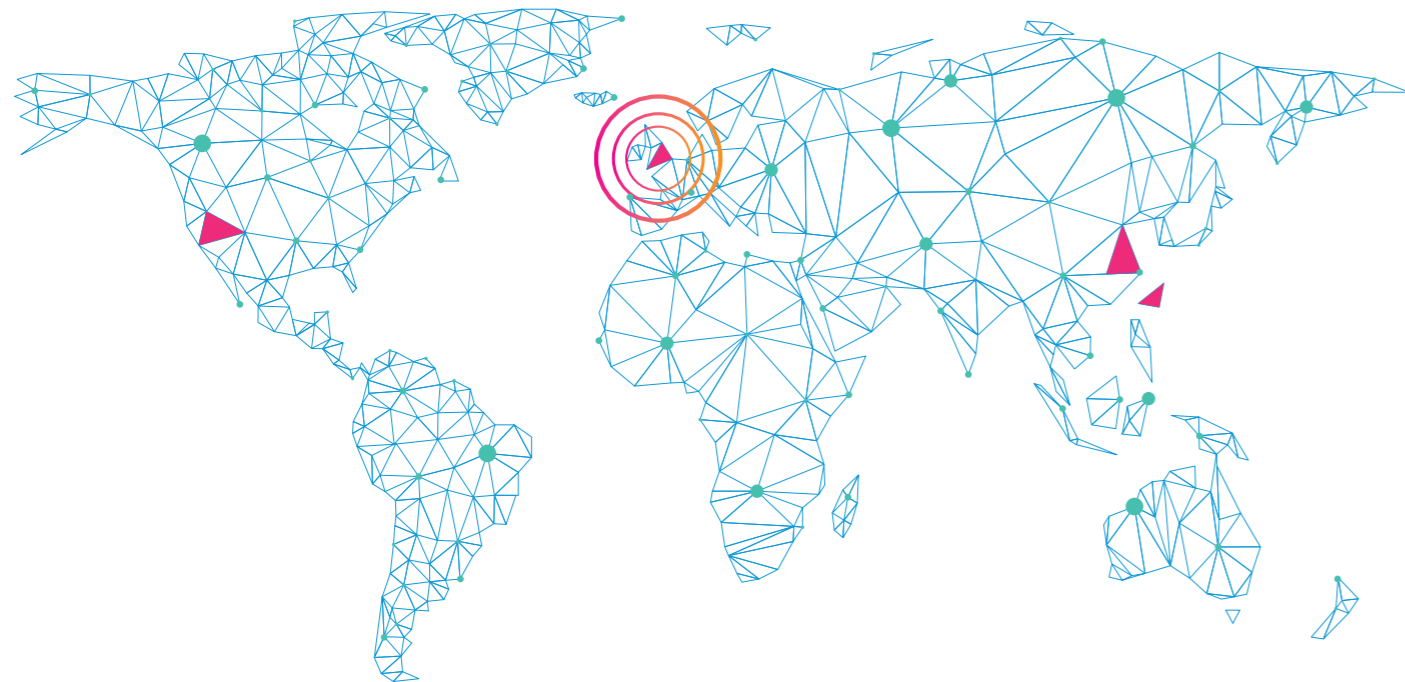
Flexible warranty
Building on Optoma's extensive service and support structure, you can be assured we have a solution to suit your needs:

- ✓ 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

"We wanted to create a fantastic space that can be used both by staff as well as to host events and creative meet-ups. We work closely with some of the best artists and illustrators in the country so it was important to us that the image quality was perfect. The launch event couldn't have gone any better and the success that we have had following the launch has been great. It was number one on the app store the next day and sales have been fantastic."

Ashley Hewson | Managing Director at Serif

Solution shown | FHD20422

optoma.com