Optoma

EX784
DLP® Projector

Make a
bright impact

Exceptional brightness – 5000 ANSI Lumens

Crestron RoomView® – RJ45 control and monitoring

Quiet operation – less than 30dB

Portable – carry bag provided for easy transportation

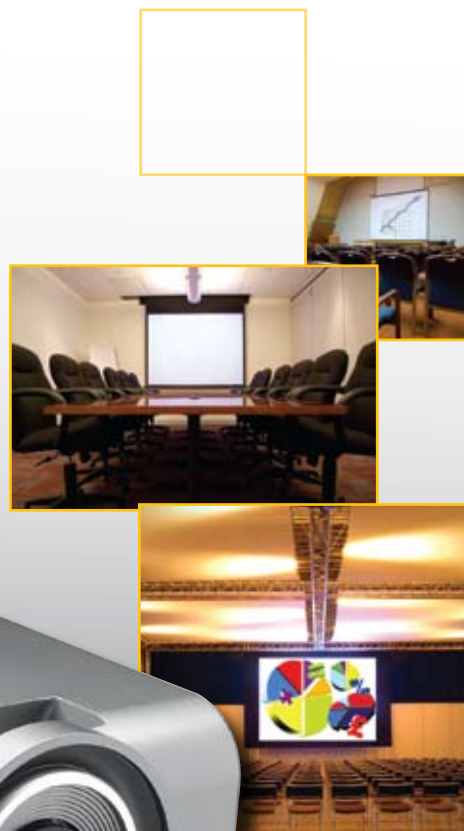Environmentally friendly design < 0.5 W standby mode

Optoma EX784 filter-free design – virtually no maintenance

3D-XL Ready
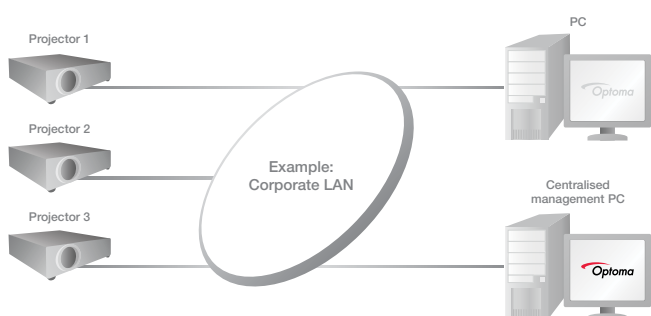
CRESTRON **RoomView**® connected

EX784

Exceptional brightness, excellent connectivity and amazing colours ensure the Optoma EX784 XGA projector is the perfect choice for any large venue or conference room.

The environmentally friendly EX784 has energy saving features including < 0.5 W standby mode and auto power off saving you both time and money. Our unique Optoma Colour guarantee ensures hassle-free, long-lasting projection.

CRESTRON ROOMVIEW® - NETWORK CONTROL

RoomView® software provides a custom configurable interface to monitor, manage and control every device in every room remotely from any computer.

- Manage up to 250 projectors at the same time (via master PC).
- Control and alter the projector settings using a simple web browser page including OSD menu control.
- Set up email alerts for warning messages
- Ideal for large installations in both the educational and business environments.

Projector 1

Projector 2

Projector 3

PC

Example:
Corporate LAN

Centralised
management PC

Download Crestron RoomView® Express software from:
www.crestron.com/getroomview

RS232 CONTROL

The extensive RS232 command set makes it simple and easy to control the EX784 with any control system.

AMX Compatibility – Dynamic Discovery
Protocol is incorporated into the EX784. This feature allows for easy installation with AMX control systems.

EXTENSIVE CONNECTIVITY

This native XGA projector accepts a wide variety of computer and video input signals.

Connectivity includes: HDMI, DVI-D, dual VGA (SCART/ Component via adaptor), S-Video, Composite, VGA-Out, RS232 , RJ45 and +12V trigger.

Two audio inputs for individual PC and video connections enable the EX784 to function as an audio switcher and volume controller, thereby eliminating complicated and costly additional audio hardware and cabling.

CLEAR, FOCUSED IMAGES

DarkChip3™ technology from Texas Instruments produces a stunning 3000:1 contrast ratio for pin sharp graphics and crystal clear text. Crisper whites, ultra-rich blacks makes images come alive and text easier to read - ideal for business and education presentations.

easier to read

1000:1 contrast ratio   3000:1 contrast ratio

‡Simulated Image

AMAZING COLOURS

The EX784 incorporates BrilliantColor™ technology to produce stunningly bright images with perfectly balanced life-like colours.

COLOUR GUARANTEE

We are so confident that the EX784 image colour quality will remain as good as the day you bought it that Optoma will guarantee it for five years.

† 3D TECHNOLOGY

Using the inherent speed of DLP technology, The Optoma EX784 can output video and images at an astonishing rate of 120Hz, allowing you to show full screen, full colour, stereoscopic 3D. The 3D effect is generated by splitting this signal into two standard video streams, one for each eye. Using DLP® Link™ technology, the 3D glasses synchronise with the image on screen to filter each stream to the correct eye. Your brain then combines the two streams to make them jump into life.

The 3D features of Optoma projectors can only be used with compatible 3D content. Typical applications include use with 3D educational or 3D design and modelling systems. Support for 3D TV broadcast systems, (SKY in the UK) or Blu-ray 3D™ will require the Optoma 3D-XL that is available separately. See website for updates.

VIRTUALLY MAINTENANCE FREE = LOWER COST OF OWNERSHIP

EX784 provides lower cost of ownership, longer life and improved reliability. The filter-free projector design does not require regular filter cleaning or filter replacement, saving you time and money.

ENVIRONMENTALLY FRIENDLY

The EX784 incorporates energy saving features to conserve power and extend the lamp life:

To achieve the maximum 3000hrs[2] lamp life time the projector should be operating in STD mode and the shut down timer should be enabled to automatically switch off the projector if it is accidently left on when no longer required. Enabling the < 0.5 W Standby mode will ensure the minimum energy consumption when the projector is not being used.

EXTRA FEATURES

- **Easy lamp replacement from the top cover**

- **Direct power on** – start up time is significantly reduced as standby mode is bypassed when the power cable is inserted into an active power outlet. This eliminates the need to use the 'Power' button on the remote control or the projector keypad.

- **Signal power on** – the projector will power on when it receives a signal. This eliminates the need to use the 'Power' button on the remote control or the projector keypad.

- **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 lamp.

- **Key pad lock** – once enabled prevents unauthorised adjustments ensuring the projector can only be controlled via the remote control.

- **+12v Trigger** – electric screen control

- **Logo capture** – customise your start up screen

- Easy to use remote with laser pointer, mouse control and direct source selection

EX784 SPECIFICATIONS

Native Resolution	XGA 1024 x 768
Brightness - BRIGHT mode[1]	5000 ANSI Lumens
Contrast	3000:1
Noise Level	28/30dB (STD/BRIGHT mode)
Display Technology	Single 0.7" XGA DC3 DMD chip DLP® Technology by Texas Instruments
Throw Ratio	1.8 - 2.11:1 (Projection Distance:Image Width)
Projection Lens	F/2.6~2.81; f=26.9~29.84mm, 1.15x Manual Zoom
Projection Distance	1.2 - 12m
Image Size	0.71 – 8.34m (28.01" - 328.38") Diagonal 4:3
Weight / Dimensions (W x D x H)	3.5 kg / 326 x 259 x 109mm
Lamp Life[2]	3000/2000 (STD/BRIGHT mode)
Remote Control	Full function remote with laser pointer, mouse control and direct source selecting
INPUTS	HDMI (HDCP) - audio supported
DVI-D - HDMI via adaptor
2 x 15 Pin D-Sub VGA (SCART/Component via adaptor)
S-Video 4 Pin Mini Din
Composite RCA
3.5mm Audio Mini Jack - Audio computer inputs
Stereo RCA - Audio video inputs
USB (remote mouse)
CONTROL	RS232 - 9 Pin D-sub
RJ45
[Operation during standby mode - ECO standby must be set to off]
OUTPUT	15 Pin D-Sub VGA
[Supported through VGA 1 only. Operation during standby mode - ECO standby must be set to off]
Stereo Audio Mini Jack
+12v Trigger
Audio	3W Speaker
Aspect Ratio	4:3 Native, 16:9 Compatible
Keystone Correction	± 30° Vertical
On Screen Display	17 Languages: English, German, French, Italian, Spanish, Portuguese, Polish, Dutch, Russian, Finnish, Swedish, Greek, Norwegian/Danish, Hungarian, Czech, Turkish & Arabic
Compatible Resolutions	UXGA, SXGA+, HD, WXGA, XGA, SVGA
Video Compatibility	PAL SECAM 576i/p, NTSC 480i/p, HD 720p/1080i/1080p
Uniformity	85%
Displayable Colours	1.07 Billion
Horizontal Scan Rate	15 - 91kHz
Vertical Scan Rate	25 - 120Hz
Power Supply	100 - 240V, 50 - 60Hz
Power Consumption	370W BRIGHT mode <0.5W Standby mode,
310W STD mode <0.5W Standby mode
Operating Conditions	Operating: 5 - 40˚C, 85% Humidity (Max),
3000m Altitude (Max)
Security	Kensington Lock Port, Password Protection, Keypad Lock
Standard Accessories	Soft Carry Bag, Lens Cover, AC Power Cord, VGA Cable, Full Function Remote, Batteries x 2, Quick Start Guide, CD User Manual, Warranty Card, WEEE Card
RoHS	Compliant
Lamp Warranty	6 months or 1000 hours - whichever comes sooner
Warranty	Warranty may vary by country. Please see www.optomaeurope.com or ask your local supplier for details
Colour Guarantee[3]	5 Years
3D Support	120Hz frame sequential 3D for resolutions up to 720p. 60Hz field sequential 3D for resolutions up to 480i
3D Viewing	Requires Optoma DLP® Link™ active shutter glasses – sold separately
3D Compatibility	The 3D features of Optoma projectors can only be used with compatible 3D content. Typical applications include use with 3D educational or 3D design and modelling systems. Support for 3D TV broadcast systems, (SKY in the UK) or Blu-ray 3D™ will require the Optoma 3D-XL that is available separately. See website for updates.

EASY TO USE REMOTE CONTROL

EX784 Remote Control

1   Laser
2   Remote Mouse
3   Page Up/Down Control
4   Vertical Keystone Correction
5   Volume Control
6   Freeze
7   AV Mute
8   Direct Input Source Selection

EX784 Connections

9   USB (Remote Mouse)
10 VGA Out
11 VGA 1 - SCART & Component
12 VGA 2 - Component
13 DVI-D
14 HDMI
15 S-Video
16 Composite Video
17 +12v Trigger
18 RJ45
19 Audio Out
20 RS232
21 Audio In (VGA 1, VGA 2 & DVI-D)
22 Audio In (S-Video & Composite)
23 Kensington™ Lock

Exceptional Connectivity/Multiple Terminals

Easy to use remote with buttons to change the input sources

EX784 Projection Distance 1.2 - 12m (4:3 Aspect Ratio)

Projection Distance (m)	Max. Horizontal Image Size (m)	Min. Horizontal Image Size (m)	Max. Vertical Image Size (m)	Min. Vertical Image Size (m)	Max Diagonal Image Size (m)	Max Diagonal Image Size (inch)	Max. Image Offset (m)
1.20	0.67	0.57	0.50	0.43	0.83	32.84	0.06
2.00	1.11	0.95	0.84	0.71	1.39	54.73	0.10
2.50	1.39	1.18	1.04	0.89	1.74	68.41	0.13
3.00	1.67	1.42	1.25	1.07	2.09	82.10	0.15
4.00	2.22	1.90	1.67	1.43	2.78	109.46	0.20
5.00	2.78	2.37	2.09	1.78	3.48	136.83	0.25
6.00	3.33	2.84	2.51	2.14	4.17	164.19	0.30
7.00	3.89	3.32	2.92	2.49	4.87	191.56	0.35
8.00	4.44	3.79	3.34	2.85	5.56	218.92	0.40
9.00	5.00	4.27	3.76	3.21	6.26	246.29	0.45
10.00	5.56	4.74	4.18	3.56	6.95	273.65	0.50
11.00	6.11	5.21	4.59	3.92	7.65	301.02	0.55
12.00	6.67	5.69	5.01	4.28	8.34	328.38	0.60

For guide purposes only

EX784 is capable of 16:9 aspect ratio projection. When projecting a 16:9 image the image sizes, screen height and offset information will differ from the above.