



EP1690

Digital DLP® Projector



The Optoma EP1690: HD Ready digital projector that delivers stunning performance for today's widescreen laptops, the latest DVDs and high-definition content.

Native resolution of 1280 x 768 (WXGA), the EP1690 offers amazingly bright picture quality with 2500 lumens and 2500:1 contrast ratio. Stylish, lightweight, quiet and amazingly versatile, the EP1690 goes easily from laptop to big screen home entertainment.

- Native 16:10 WXGA (1280 x 768) display for work and play versatility
- 2500 Lumens Bright and crisp picture quality with 2500:1 contrast ratio
- Almost silent operation: 27dB due to innovative "wind tunnel" cooling system





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- DarkChip2™, BrilliantColour™ and TrueVivid™ 10-bit per channel colour enhancement technologies to give vibrant and more realistic images
- Optoma's exclusive Widescreen Maximizer™ software (available from www.Optomaeurope.com) for perfect picture matching between the data source and projector
- Extensive connectivity options, including DVI with HDCP, HDMI via adaptor, two VGA both with SCART RGB, video inputs and four individual audio inputs for easy installation
- Express on/off function to power on/off, the projector in mere seconds
- Full Function Remote control, with Mouse and LASER
- PIN number Security function for added protection
- Soft carry case provided for easy portability
- 4 Preset user modes – Cinema, Bright, TV, sRGB, User

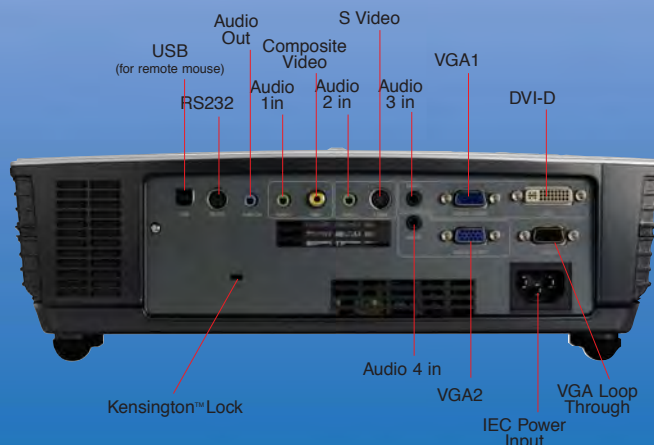
Specification

Display Technology	0.65" DDR DLP® Technology by Texas Instruments
Resolution	Native WXGA (1280 x 768)
Brightness	2500 Lumens
Contrast	2500:1
Noise Level	27/30dB (STD/Bright Mode)
Aspect Ratio	Widescreen 16:10 with support for 16:9, 15:9 and 4:3
Weight	3.2 kg
Maximum Resolution	PC: UXGA (1600 x 1200), Video: 720p, 1080i
Computer Compatibility	UXGA, SXGA+, WXGA, XGA, SVGA, VGA Compression, VESA Standards, PC & Mac Compatible
Video Compatibility	PAL (576i/p), SECAM, NTSC (480i/p), HDTV (720p, 1080i) with 480i/576i De-Interlacing
Displayable Colours	16.7 Million
Projection Lens	f = 22.25 - 26.69 mm, F/ 2.5 - 2.8, Manual Focus
Throw Ratio	1.58 to 1.90:1
Projection Screen Size	0.90 to 8.96 m (35" to 353") Diagonal 16:10
Projection Distance	1.2 to 12 m
Horizontal Scan Rate	15 - 100 KHz
Vertical Scan Rate	56 - 85 Hz
Lamp Type and Life	220W UHP, 3000/2000 Hours (STD/Bright Mode)
Keystone Correction	± 16° Vertical
Audio	One 3-Watt Speaker
Dimensions (W x D x H)	348 x 258 x 110mm
Remote Control	Full Feature Remote Control with Laser Pointer and Mouse
Power Supply	AC Input 100-240 Volts, 50 - 60Hz
Power Consumption	272 Watts ± 10% Full Power, <13W Standby Power
Operating Conditions	Operating: 5 - 35° C, 80% Humidity (Max) 3000m Altitude (Max)
Uniformity	85%
I/O Connectors	DVI-D w/HDCP, Two VGA (YPbPr/RGB/SCART), S-Video, Composite Video, VGA-Out, Four Audio Inputs, One Audio Output, USB, RS-232
Security	One Kensington Lock Port
Standard Accessories	AC Power Cord 1.8m, 15-Pin VGA Cable 1.8m, RGB SCART to VGA Adapter, Composite Cable 1.8m, RS-232 Cable, Remote Control includes Batteries, Lens Cap, Soft Carry bag, Quick Start Guide, Warranty Card and User's Manual
Optional Accessories	Ceiling Mount, 15-pin to 3 RCA Component – HDTV Adapter, S-Video Cable 1.8m, DVI to DVI Cable, DVI to HDMI Adapter
RoHS	Compliant
Lamp Warranty	6 months or 1000 hours – whichever is soonest
Warranty	Warranty may vary by country. Please see www.optomaeurope.com or ask your local supplier for details

EP1690 Projection Distance 1.2 - 12m (16:10 Aspect Ratio)

Projection Distance(m)	Max Horizontal Image size (m)	Max Horizontal Image size (m)	Max Screen Height (m)	Min. Screen Height (m)	Max Diagonal Image size (m)	Max Diagonal Image Size (inch)	Max Image Offset (m)
1.20	0.76	0.63	0.47	0.39	0.90	35.26	0.15
2.00	1.27	1.05	0.79	0.66	1.49	58.77	0.25
2.50	1.58	1.32	0.99	0.82	1.87	73.46	0.32
3.00	1.90	1.58	1.19	0.99	2.24	88.15	0.38
4.00	2.53	2.11	1.58	1.32	2.99	117.54	0.51
5.00	3.16	2.63	1.98	1.64	3.73	146.92	0.63
6.00	3.80	3.16	2.37	1.97	4.48	176.31	0.76
7.00	4.43	3.68	2.77	2.30	5.22	205.69	0.89
8.00	5.06	4.21	3.16	2.63	5.97	235.07	1.01
9.00	5.70	4.74	3.56	2.96	6.72	264.46	1.14
10.00	6.33	5.26	3.96	3.29	7.46	293.84	1.27
11.00	6.96	5.79	4.35	3.62	8.21	323.23	1.39
12.00	7.59	6.32	4.75	3.95	8.96	352.61	1.52

EP1690 is capable of 16:9 aspect ratio projection. When projecting a 16:9 image the image sizes, screen height and offset information will differ to that above.



Optoma Europe Ltd.

42 Caxton Way, Watford Business Park,
Watford, Hertfordshire, UK, WD18 8QZ

www.optomaeurope.com

*Typical lamp life achieved through testing. Will vary according to operational use and environment conditions.

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