Bright Office Projection
DH351

Optoma

Bright 1080p projection for office presentations

Bright 3,600 lumens with 22,000:1 contrast ratio

HD Full HD 1080p resolution

CEC HDMI-Link support simplifies control of connected HDMI devices and video sources

Outstanding lamp life up to 15,000 hours (Dynamic) reduces overall cost of ownership.

DLP TEXAS INSTRUMENTS | BrilliantColor With Multi-Color Processing For More Vibrant Colors DLP | HDMI HIGH DEFINITION MULTIMEDIA INTERFACE | WIDESCREEN 16:9 ENHANCED | 1080P | Full 3D | RoHS COMPLIANT

Enhance presentations with a huge projection with the affordable 3,600 lumens Optoma DH351 1080p business and education projector. The excellent color reproduction and high-quality 22,000:1 contrast ratio ensures incredible images up to 301-inches so every presentation is stunning and visible by everyone in the room.

Vertical keystone support simplifies placement for easy installation while an integrated 5-watt speaker enhances presentations and videos without additional equipment. Up to 15,000-hour lamp life delivers many years of use with minimal maintenance.

CONNECTIVITY (May require optional accessories)

Computers | Smart Phones | Tablets | 3D Blu-ray/DVD Players | Camcorders | Apple TV® | Chromecast™

OPTICAL/TECHNICAL SPECIFICATIONS

Display Technology	Texas Instruments 0.47" DMD
Color Wheel	RYGCWB
Native Resolution	1080p (1920 x 1080)
Maximum Resolution	WUXGA (1920 x 1200)
Brightness	3,600 ANSI lumens
Contrast Ratio	22,000:1
Displayable Colors	1.07 billion
Lamp Life and Type*	15,000/10,000/4,000 (Dynamic/ECO/Bright) - 240W
Projection Method	Front, rear, ceiling mount, table top
Keystone Correction	±40° vertical
Uniformity	80%
Offset	116%±5%
Aspect Ratio	16:9 (native), 4:3, 16:10 and LBX compatible
Throw Ratio	1.47 - 1.62:1
Projection Distance	3.2' - 35.37" (no zoom)
Image Size	28" - 301"
Projection Lens	F=2.1 ~ 2.31, f=15.59 ~ 17.14mm
Optical Zoom	1.1x
Digital Zoom	0.8 - 2.0
Audio	5W
Noise Level	26dB
Remote Control	Full size remote
Operating Temperature	41–104°F (5–40°C), 85% max humidity
Power Supply	AC input 100 - 240V, 50 - 60 Hz, auto-switching
Power Consumption	205W typical, 295W max
High Altitude	Operating temp @ sea level up to 10000 feet = 23F (max); must manually switch to high altitude mode @ 5000 feet & above (using OSD)

COMPATIBILITY SPECIFICATIONS

Computer Compatibility	FHD, HD, WXGA, UXGA, SXGA, XGA, SVGA, VGA, Mac
Video Input Compatibility	PAL (B, D, G, H, I, M, N, 576i/p), NTSC (M, 4.43/3.58 MHz, 480i/p), SECAM (B, D, G, K, K1, L) HD (1080i, 720p)
3D Compatibility[†]	Supports all HDMI 1.4a mandatory 3D formats (Frame pack, side-by-side, top-bottom) and up converts frame rate from 60Hz to 120Hz or 24Hz to 144Hz (i.e. 60 or 72 frames per eye). 3D glasses are needed and are sold separately. Refer to user manual for details.
Vertical Scan Rate	15.375 - 91.146KHz
Horizontal Scan Rate	25 - 85Hz (120Hz for 3D)
User Controls	Complete on-screen menu adjustment in 27 languages
I/O Connection Ports	HDMI (1.4a), audio out (3.5mm), USB (1.5a / firmware update)
Loop Through (Audio)	Yes

PHYSICAL SPECIFICATIONS

Security	Security bar, Kensington lock, password protection
Weight	6.2 lbs.
Dimensions (W x H x D)	12.4" x 4.3" x 9.5"

1. HDMI-In
2. USB power
3. Audio-Out
4. AC Power
5. Kensington™ Lock

Power On
User 1, 2, 3
Brightness
Keystone
Mute
DB
Source
Menu
HDMI

Power Off
Contrast
Mode
Aspect Ratio
3D
Sleep Timer
Volume +
Re-sync
Enter
Volume -

Warranty

1 Year limited parts and labor warranty on the projector, 90 days lamp warranty

What's in the Box

DH351 projector, AC power cord, remote control, batteries for remote, quick start user manual

Accessories

Lamp	(replacement):	BL-FU240H
Remote	(replacement):	BR-3001B

UPC 796435 44 513 3

Optoma.com

EH412x

High resolution, versatile and bright projector
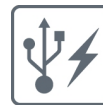
- **Bright Full HD 1080p projector - 4500 lumens for use any time of day**

- **Easy connectivity - HDMI and USB Power**

- **Clear, powerful audio - Built-in 10W speaker**

- **Lightweight and portable - Perfect for classroom and meeting room presentations**

Beam bright, eye-catching content with the Full HD 1080p EH412x projector. Perfect for classroom and meeting room presentations, this projector is designed to be used at any time of day.

Additionally, it boasts easy connectivity with multiple inputs including HDMI and a built-in 10W speaker. You can even use the USB power to connect and power HDMI dongles such as Google Chromecast.

Specifications

Display/image

Display technology	DLP™
Resolution	1080p Full HD (1920x1080)
Brightness	4,500 lumens
Contrast ratio	22,000:1
Native aspect ratio	16:9
Aspect ratio - compatible	4:3
Keystone correction - vertical	+/-40°
Horizontal scan rate	15.38 ~ 91.15Khz
Vertical scan rate	50 ~ 85(120 for 3D)Hz
Uniformity	70%
Screen size	30.8" ~ 301.4" diagonal

Lamp info

Light source type	Lamp
Lamp watts	240
Lamp life hours (up to)	4000 (Bright), 12000 (Dynamic), 10000 (Eco), 15000 (Eco+)

Optical

Throw ratio	1.12:1 ~ 1.47:1
Projection distance	39.37" - 295.28"
Zoom	1.3
Zoom type	Manual
Focal length (mm)	16.9mm~21.6mm/0.665"~0.85"
Native offset	116%

Connectivity

Connections	**Inputs** 1 x HDMI 2.0, 1 x HDMI 1.4a 3D support
	Outputs 1 x Audio 3.5mm, 1 x USB-A power 1.5A
	Control 1 x RS232

General

Noise level (typical)	26dB
Noise level (max)	28dB
PC compatibility	UHD, WUXGA, FHD, UXGA, SXGA, WXGA, HD, XGA, SVGA, VGA, Mac
2D compatibility	NTSC M/J, 3.58MHz, 4.43MHz PAL B/D/G/H/I/M/N, 4,43MHz SECAM B/D/G/K/K1/L, 4.25/4.4MHz 480i/p, 576i/p, 720p(50/60Hz), 1080i(50/60Hz), 1080p(50/60Hz)
3D compatibility	Side-by-Side:1080i50 / 60, 720p50 / 60 Frame-pack: 1080p24, 720p50 / 60 Over-Under: 1080p24, 720p50 / 60
3D	Full 3D
Security	Security bar, Kensington Lock, Password protected interface
OSD / display languages	25 languages: Arabic, Czech, Danish, Dutch, English, Farsi, Finnish, French, German, Greek, Hungarian, Indonesian, Italian, Japanese, Norwegian, Polish, Portuguese, Romanian, Russian, Chinese (simplified), Spanish, Swedish, Chinese (traditional), Turkish, Vietnamese
Operating conditions	5°C~40°C/41°F~104°F, max altitude 3000M/9843ft, max humidity 85%
Remote control	Data remote with laser and mouse function
Speaker count	1
Watts per speaker	10W
In the box	AC power cord Remote control 2x AAA batteries Basic user manual
Optional wireless models	HDCast Pro, QuickCast Bundle, QuickCast starter kit, WHD200

Power

Power supply	100 ~ 240V, 50 ~ 60Hz
Power consumption (standby)	0.5W
Power consumption (min)	200W
Power consumption (max)	285W

Weight and dimensions

Dimensions (W x D x H)	12.44" x 9.61" x 4.25"
Gross weight	8.6 lbs
Net weight	7.3 lbs

EH412STx

Short throw, bright and compact projector

- **Bright Full HD 1080p projector - 4000 lumens for use any time of day**

- **Short throw lens - 100" image from just a few feet away**

- **Easy connectivity - HDMI and USB power**

- **Clear, powerful audio - Built-in 10W speaker**

Project bright, vibrant presentations effortlessly in Full HD 1080p any time of day. Designed for small meeting rooms and classrooms, this short throw projector boasts amazing color, long lamp life and energy-saving features to provide a lower overall cost of ownership.

Multiple inputs, USB power and a built-in speaker provide an easy set-up - perfect for connecting a laptop, PC or Blu-ray player for clear projected images with sound. You can even use the USB power to connect and power HDMI dongles such as Google Chromecast.

Portable and lightweight this compact projector can be installed or taken on the move for off-site meetings.

Specifications

UPC - 796435 44 605 5

Display/image

Display technology	DLP™
Resolution	1080p Full HD (1920x1080)
Brightness	4,000 lumens
Contrast ratio	22,000:1
Native aspect ratio	16:9
Aspect ratio - compatible	4:3,16:9
Keystone correction - vertical	+/-40°
Horizontal scan rate	15.38 ~ 91.15Khz
Vertical scan rate	50 ~ 85(120 for 3D)Hz
Uniformity	70%
Screen size	36.2" ~ 307.8" diagonal

Lamp info

Light source type	Lamp
Lamp watts	240
Lamp life hours (up to)	4000 (Bright), 12000 (Dynamic), 10000 (Eco), 15000 (Eco+)

Optical

Throw ratio	0.49:1
Projection distance	15.75" - 133.86"
Focal length (mm)	7.42mm/0.292"
Native offset	116%

Connectivity

Connections	**Inputs** 1 x HDMI 2.0, 1 x HDMI 1.4a 3D support + MHL
	Outputs 1 x Audio 3.5mm, 1 x USB-A power 1.5A
	Control 1 x RS232

General

Noise level (typical)	26dB
Noise level (max)	28dB
PC compatibility	UHD, WUXGA, FHD, UXGA, SXGA, WXGA, HD, XGA, SVGA, VGA, Mac
2D compatibility	NTSC M/J, 3.58MHz, 4.43MHz PAL B/D/G/H/I/M/N, 4,43MHz SECAM B/D/G/K/K1/L, 4.25/4.4MHz 480i/p, 576i/p, 720p(50/60Hz), 1080i(50/60Hz), 1080p(50/60Hz)
3D compatibility	Side-by-Side:1080i50 / 60, 720p50 / 60 Frame-pack: 1080p24, 720p50 / 60 Over-Under: 1080p24, 720p50 / 60
3D	Full 3D
Security	Security bar, Kensington Lock, Password protected interface
OSD / display languages	25 languages: Arabic, Czech, Danish, Dutch, English, Farsi, Finnish, French, German, Greek, Hungarian, Indonesian, Italian, Japanese, Norwegian, Polish, Portuguese, Romanian, Russian, Chinese (simplified), Spanish, Swedish, Chinese (traditional), Turkish, Vietnamese
Operating conditions	5°C~40°C/41°F~104°F, max altitude 3000M/9843ft, max humidity 85%
Remote control	Data remote with laser and mouse function
Speaker count	1
Watts per speaker	10W
In the box	AC power cord Remote control 2x AAA batteries Basic user manual
Optional wireless models	HDCast Pro, QuickCast Bundle, QuickCast starter kit, WHD200

Power

Power supply	100 ~ 240V, 50 ~ 60Hz
Power consumption (standby)	0.5W
Power consumption (min)	200W
Power consumption (max)	285W

Weight and dimensions

Dimensions (W x D x H)	12.44" x 9.61" x 4.25"
Gross weight	8.75 lbs
Net weight	7.43 lbs