

# Bright XGA Projection

X412

**Optoma**

## Exceptional brightness and lamp life



Incredible 4,200 lumens and 50,000:1 contrast ratio



Flexible installations with 1.1x zoom and RS232



Accurate color with sRGB & REC.709 color profile



Powerful 10 watt speaker



Minimal maintenance with 15,000 hour lamp life



XGA

Full 3D



Project incredibly bright 4,200 lumens, XGA images with the Optoma X412. REC.709 and sRGB color profiles with a 50,000:1 contrast ratio ensures sharp and vivid images, ideal for classrooms, meeting and training rooms.

The 1.1x zoom, keystone correction and RS232 control deliver flexible installation options. Powerful 10-watt audio fills a room with loud and crisp audio to further enhance media and presentations.

Robust inputs include HDMI and VGA for connectivity to a wide range of devices. A 15,000-hour lamp life enables many years of use with minimal maintenance.

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## Bright XGA Projection - X412

### OPTICAL/TECHNICAL SPECIFICATIONS

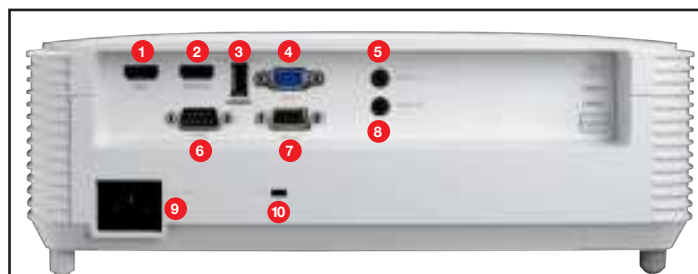
<b>Display Technology</b>	Texas Instruments 0.65" XGA DMD
<b>Color Wheel</b>	6 Segment; RYGCWB
<b>Native Resolution</b>	XGA (1024 x 768)
<b>Maximum Resolution</b>	UXGA (1600 x 1200)
<b>Brightness</b>	4,200 ANSI lumens
<b>Contrast Ratio</b>	50,000:1
<b>Displayable Colors</b>	1.07 billion
<b>Lamp Life*</b>	4,000/10,000/15,000 (Bright/Eco/Dynamic)
<b>Light Source Type*</b>	245W lamp
<b>Projection Method</b>	front, rear, ceiling mount, table top
<b>Keystone Correction</b>	±40 degree (vertical)
<b>Geometry</b>	Keystone correction
<b>Lens Shift</b>	N/A
<b>Uniformity</b>	85%
<b>Offset</b>	115% ±5%
<b>Aspect Ratio</b>	4:3 (native), 16:9, LBX and auto compatible
<b>Throw Ratio</b>	1.94-2.16:1
<b>Projection Distance</b>	3.3'-32.8' (without zoom)
<b>Image Size</b>	27.5"-304.4"
<b>Projection Lens</b>	F=2.41-2.53, F=21.86-24mm
<b>Optical Zoom</b>	1.1x
<b>Digital Zoom</b>	0.8 - 2.0x
<b>Audio</b>	10W
<b>Noise Level</b>	26 dB
<b>Remote Control</b>	Full size remote
<b>360° and Portrait Mode Operation</b>	No
<b>Operating Temperature</b>	41-104°F (5-40°C), 85% max humidity
<b>Power Supply</b>	AC input 100 - 240V, 50 - 60 Hz, auto-switching
<b>Power Consumption</b>	325W max, 295W typical (Bright mode), 225W max, 205W typical (Eco Mode)
<b>High Altitude</b>	Operating temperature at sea level up to 10,000 feet = 104° F (max); Must manually switch to high altitude mode from 5,000 feet and above (using OSD menu) to maintain optimal functionality

### COMPATIBILITY SPECIFICATIONS

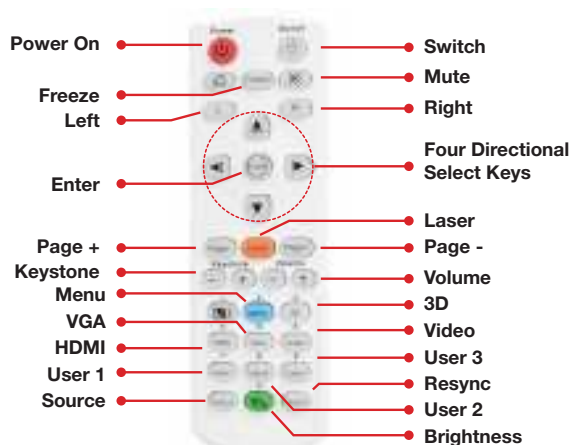
<b>Computer Compatibility</b>	VGA, SVGA, HDTV(720P), XGA, XGA+, SXGA, SXGA+, UXGA, HDTV(1080p), WUXGA
<b>Video Input Compatibility</b>	PAL, SECAM, 576i/p, NTSC, 480i/p, HDTV 720p/1080i/1080p
<b>3D Compatibility†</b>	Supports all HDMI 1.4a mandatory 3D formats (Frame pack, side-by-side, top-bottom) and 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.
<b>Vertical Scan Rate</b>	50- 85 Hz (120Hz for 3D feature projector)
<b>Horizontal Scan Rate</b>	15.375-91.146 KHz
<b>Input lag</b>	32ms
<b>I/O Connection Ports</b>	2x HDMI 1.4a, 1x VGA, 1x audio in, 1x USB-A, 1x VGA out, 1x audio out
<b>Control</b>	RS232

### PHYSICAL SPECIFICATIONS

<b>Security</b>	Kensington® lock port, password (OSD)
<b>Weight</b>	7.7 lbs
<b>Dimensions (W x H x D)</b>	12.4(W) x 9.5 (D) x 4.5(H)



- |                  |             |                     |
|------------------|-------------|---------------------|
| 1. HDMI          | 5. VGA-In   | 9. AC power         |
| 2. HDMI          | 6. VGA-Out  | 10. Kensington lock |
| 3. USB-Power/out | 7. Audio-In |                     |
| 4. Audio-Out     | 8. RS232    |                     |



#### Warranty

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

#### What's in the Box

X412 projector, AC power cord, remote control, batteries for remote, carrying case, quick start guide and warranty card

#### Optional Accessories

Ceiling mount

#### Accessory Part Numbers

Lamp: BL-FU245A  
Remote: BR-5080C  
Carrying case: BK-4028  
Ceiling mount: OCM815W  
Ceiling mount: OCM818W-RU  
Ceiling mount: BM-5001U

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