

# ULTRA SHORT THROW LASER PHOSPHOR PROJECTOR

## KHZ433UST



Spectacular 100" FullHD 1080p image from only 13" away



-  Combines laser phosphor technology with 4500 lumens and 200,000:1 contrast ratio to produce bright visuals and razor sharp text
-  PC-Free USB Media Player supports playback of video and audio files along with shared images and presentations
-  Full HD 1080p and extensive I/O connectivity with Dual HDMI featuring MHL, VGA-In, RJ-45 and 2x Audio-In
-  Powerful 10-Watt speakers enhance presentations and fill every room with loud crisp audio
-  Laser phosphor light source provides up to 20,000 hours of light source expectancy
-  HDMI MHL port supports popular HDMI dongles including Optoma's HDCast Pro, Chromecast, FireTV & more



The Optoma KHZ433UST is equipped with laser phosphor display technology for state-of-the-art picture and color performance. The KHZ433UST impresses with rich color and deep black levels that outperform traditional lamp-based projectors, while the laser solid-state light source provides up to 20,000 hours of life for a virtually maintenance-free operation.

With a throw ratio of .25, the KHZ433UST can display a 100" 1080p image from only 13" away making it ideal for space constrained environments such as small classrooms, meeting rooms, boardrooms and digital signage applications. Allowing for presentations to transition from external sources seamlessly, the KHZ433UST's PC-Free USB Media Player supports playback of video and audio files along with images and presentations shared directly from any USB device. Featuring a powerful 10-watt speaker, the KHZ433UST enhances presentations, videos and audio files by delivering crisp, robust audio. In addition, streaming and presenting is made easy with an MHL-powered HDMI port that supports popular dongles including Optoma's HDCast Pro and Amazon's FireTV. The USB port can also be used to power Optoma's WHD200 Wireless HDMI system or Google's Chromecast media dongle.

### CONNECTIVITY (May require optional accessories)



Computers



Smart Phones



Tablets



3D Blu-ray/DVD Players



Camcorders



Digital Cameras



Apple TV®



Chromecast™

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## OPTICAL/TECHNICAL SPECIFICATIONS

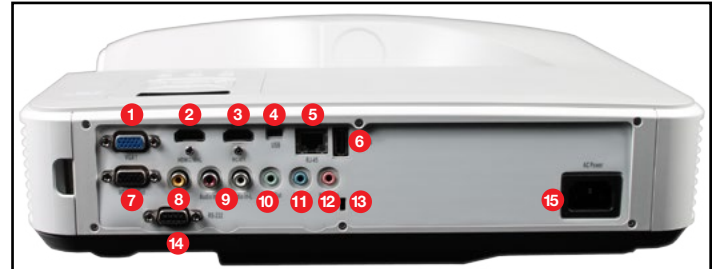
<b>Display Technology</b>	Single Texas Instrument DMD, 12 degree .65" 1080P DMD X1, Type S600, DC3
<b>Color Wheel</b>	3 Segment; Y/G/B Wheel Diameter 59mm
<b>Native Resolution</b>	1080p 1920x1080
<b>Maximum Resolution</b>	WUXGA 1920x1200
<b>Brightness</b>	4500 Lumens
<b>Contrast Ratio</b>	200,000:1 (dynamic black enabled)
<b>Displayable Colors</b>	1.7 Billion Colors
<b>Lamp Life and Type*</b>	Up to 20,000 hrs
<b>Projection Method</b>	Front, rear, ceiling mount, table top
<b>Keystone Correction</b>	±15° Vertical
<b>Uniformity</b>	80%
<b>Offset</b>	120%±3%
<b>Aspect Ratio</b>	16:9 (native), 16:10, 4:3, Auto
<b>Throw Ratio</b>	0.25:1 (distance/width), ±5% Variance
<b>Projection Distance</b>	17.7"– 22.1" (0.45–0.56 m)
<b>Image Size</b>	85" - 100"
<b>Projection Lens</b>	F=2.5~ 3.26, f=20.91 ~ 32.62 mm manual focus
<b>Optical Zoom</b>	Fixed lens
<b>Digital Zoom</b>	Yes
<b>Audio</b>	10W Mono Speaker
<b>Noise Level</b>	30dB (ECO)
<b>Remote Control</b>	Full Function Remote
<b>Operating Temperature</b>	41–104°F (5–40°C), 85% max humidity
<b>Power Supply</b>	AC input 90 – 264V, 50–60 Hz
<b>Power Consumption</b>	335W (Bright), 225W (ECO)
<b>High Altitude</b>	Operating temperature at sea level up to 10000 feet = 73F (max); Must manually switch to high altitude mode from 5000 feet and above (using OSD menu) to maintain optimal functionality.

## COMPATIBILITY SPECIFICATIONS

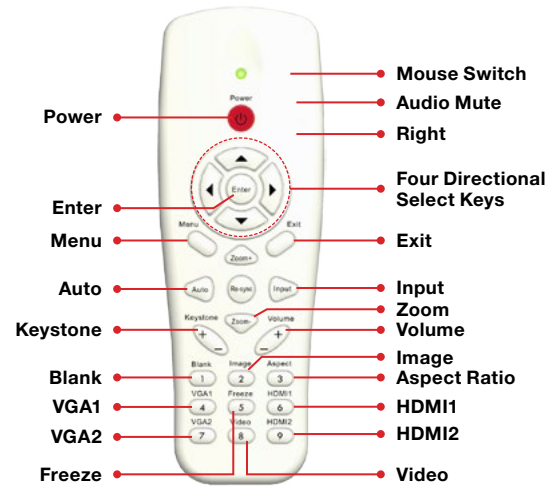
<b>PC Free USB Media Player and Office Document Viewer</b>	Supports playback of video files, audio files, and viewing of Office Documents and PDF files via USB 2.0 and USB 3.0 Flash Disks and Drives
<b>PC Free USB Media Player Video Codecs and Containers</b>	H.264, H.263, VC-1, MPEG-1/2/4, DIVX-3/4/5/6, XVID, WMV7/8, VP8, VP6, AVS, MKV
<b>PC Free USB Media Player Audio Codecs and Containers</b>	MP3, WMA, OGG, FLAC, APE, ATRAC
<b>PC Free USB Media Player Image formats</b>	JPEG, GIF, BMP
<b>PC Free Office Document and PDF Viewer formats</b>	Word Documents (.doc, .docx), Excel Spreadsheets (.xls, .xlsx), Powerpoint Presentations (.ppt, .pptx), Adobe Acrobat files (.pdf)
<b>Computer Compatibility</b>	SVGA, VGA, SXGA, UXGA, XGA, WXGA, HD, Mac
<b>Video Input Compatibility</b>	NTSC, PAL, SECAM, SDTV 480i/p, 576i/p, HDTV 720p(50/60Hz), 1080i(50/60Hz), 1080P(50/60Hz)
<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>	24– 85 Hz (120Hz for 3D feature)
<b>Horizontal Scan Rate</b>	15.375–91.146 KHz
<b>User Controls</b>	Complete on-screen menu adjustment in 18 languages
<b>I/O Connection Ports</b>	2xHDMI (with MHL), Composite Video In, 2xAudio-In (3.5mm & RCA), Mic-In (3.5mm), VGA-In, VGA-Out, Audio-Out (3.5mm), RS232, RJ-45, USB-A (USB Power 1A and PC Free USB Media Player), USB-B (Service only)
<b>Loop Through (Audio)</b>	Yes

## PHYSICAL SPECIFICATIONS

<b>Security</b>	Kensington® Lock Port, security bar and keypad lock
<b>Weight</b>	12.3 lb
<b>Dimensions (W x H x D)</b>	15" x 5" x 12.5" (381 x 127 x 317.5mm)



- |               |                |              |
|---------------|----------------|--------------|
| 1. VGA 1      | 6. USB Disk    | 11. Audio In |
| 2. HDMI-2/MHL | 7. VGA2 in/out | 12. Mic      |
| 3. HDMI-1     | 8. Video       | 13. K-slot   |
| 4. USB        | 9. RCA in L/R  | 14. RS-232   |
| 5. RJ-45      | 10. Audio Out  | 15. AC Power |



### Warranty

5 year or 20,000 Hour Light Source Warranty (whichever comes first)

### What's in the Box

KHZ433UST, AC power cord, VGA to VGA cable, remote control, batteries for remote, multilingual CD-ROM user's manual, quick start card, and warranty card

### Optional Accessories

Universal ceiling mount, DLP@Link™ 3D glasses, Wireless HDMI system, Remote, HDCast Pro

### Accessory Part Numbers

Remote: BR-3080N  
 Ceiling mount: OWM3000  
 DLP@Link™ 3D glasses: ZD302  
 Wireless HDMI system: WHD200  
 HDCast Pro: HDCAST PRO-BLACK



\*Light source life is dependent upon many factors, including brightness mode, display mode, usage, environmental conditions and more. Light source brightness can decrease over time.

†3D content can be viewed with DLP Link active shutter 3D glasses when projector is used with a compatible 3D player. Please visit [www.OptomaUSA.com](http://www.OptomaUSA.com) for more information.

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