

## All Laser Technology is Not Created Equal

Ensure your choice of laser projectors include the most advanced technology features:

### Sharp & NEC laser phosphor projector features include:

- 20,000-plus hours of virtually maintenance-free operation
- Adjustable light source for control in any ambient lighting condition
- Improved white/color uniformity creates consistency from corner to corner
- Tilt-free and Portrait mode features improve installation flexibility
- HDBaseT for easy connection and cost saving installation
- Filter free design reduces maintenance requirements
- Constant Brightness Mode sustains light output over a long period of time
- Whisper quiet operation reduces distractions by lowering the noise of the projector
- 24/7 operation - suited for Network Operation Centers and Digital Signage applications



## Explore NEC's Laser Phosphor Projector Lineup

	M Series	PE Series	P Series LCD	P Series DLP	PA4 Series	PV Series	PX Series	X Series
20,000+ hour light source	X	X	X	X	X	X	X	X
Adjustable light source	X	X	X	X	X	X	X	X
White/Color uniformity	X	X	X	X	X	X	X	X
Tilt-free and portrait	X	X	X	X	X	X	X	X
HDBaseT			X	X	X	X	X	X
Filter Free			X	X	X		X	X
Constant brightness			X	X	X	X	X	X
Whisper Quiet			X		X			
24/7 operation				X			X	X

		M421W	M401H
Display Technology		0.65" DLP	
Light Output (lumens)		4,200 normal / 3,300 eco	4,000 normal / 3,100 eco
Screen Resolution	Native	WXGA 1280 x 800	1080p 1920 x 1080
	Maximum	Up to WUXGA (1920x1200) @ 60Hz via HDMI	
Contrast Ratio (up to)		50,000:1	
Light source Life (up to)		20,000 hours (eco)	
Screen Size (diagonal)		40 to 120 in. / 1.02 to 3.05m	
Throw Ratio		1.19 - 1.54:1	1.16 - 1.47:1
Projection Distance		4.3 - 9.8 ft. / 1.3 - 3.0m	
Projection Angle		7.7 - 9.8° tele / 12.1 - 15.4° wide (at 60")	
Lens	Zoom	Manual	
	Zoom Ratio	1.3:1	
	Focus	Manual	
	F-number, f-number	F:2.43~2.78 /f=16.90~21.61mm	
	Shift		
Keystone Correction		Manual (+/- 30° H/V (auto vertical))	
Synchronization Range	Horizontal	15 to 140KHz	
	Vertical	24 to 120Hz	
Supported Video Standards			
SD/HD Video Signal Compatibility		1080p, 1080i, 720p, 576p, 576i, 480p, 480i	
PC Signal Compatibility		VGA, SVGA, XGA, SXGA, WUXGA	
Macintosh Compatibility		Yes	
Input/Output Terminals	RGB1 (analog)		
	RGB2 (analog)		
	RGB1 (Digital)	HDMI (v1.4 w/HDCPv1.4)	
	RGB2 (digital)	HDMI (v2.0 w/HDCPv2.2)	
	RGB3 (digital)		
	RGB4 (digital)		
	RGB5 (digital)		
	RGB6 (digital)		
	Option Slot		
	Video		
	Audio 1		
	Audio 2		
	Audio Out	Stereo Mini Jack	
	Monitor Out		
	USB Type A	Power, (1.5A)	
USB Type A (behind cover)			
USB Type B			
Wired LAN port			
3D Sync Line			
Audio		8W mono	
External Control		RS-232 (D-Sub 9pin), IR	
Sync Compatibility			
Power Requirements		100 - 240V AC, 50/60Hz	
Input Current		3.5A (external power adapter)	
Power Consumption		195W / 150W / 0.5W	
Installation Orientation		Floor/Front, Floor/Rear, Ceiling/Front, Ceiling/Rear	
Dimensions (WxDxH)		10.9 x 4.5 x 8.5 in. (278 x 115.5 x 216 mm)	
Net Weight		6 lbs. (3.0 kg)	
Fan Noise		36 dB normal / 26 dB eco	
Regulations		USA: cTUV (UL62368-1 3rd ed.) FCC Part15 Class B, Canada: CAN/CSA (62368-1:19 3rd ed.) ICES-003 Issue 7	
Operating Temperature		32° - 104°F / 0° - 40°C	
Humidity		20-80% non-condensing	
Storage		14° - 122°F / -10° - 50°C	

		PE506WL	PE506UL	PE456USL
Display Technology		0.64" LCD w MLA		
Light Output (lumens)		5,200 normal / Eco = variable		4,500 normal / Eco = variable
Screen Resolution	Native	WXGA 1280 x 800	WUXGA 1920 x 1200	
	Maximum	4K@30Hz 3840 x 2160		
Contrast Ratio (up to)		3,000,000:1 with dynamic contrast		
Light source Life (up to)		20,000 hours		
Screen Size (diagonal)		30 to 300 in. / 0.76 to 7.6m		55 - 130 in. / 1.4 - 3.3m
Throw Ratio		1.2 - 2.1:1	1.2 - 2.0:1	0.44:1
Projection Distance		2.6 - 44.3 ft. / 0.8 - 13.5m		1.7 to 4.16 ft. / 0.517 to 1.268m
Projection Angle		0 to 9.6° tele / 0 to 15.9° wide	0 to 10.8° tele / 0 to 17.0° wide	34.5° (at 80")
Lens	Zoom	Manual		Fixed
	Zoom Ratio	1.7:1	1.6:1	Fixed
	Focus	Manual		Manual
	F-number, f-number	F= 1.7~2.2, f= 17.4 to 29.0mm	F= 1.5~2.1, f= 17.2 to 27.6mm	F:1.6 /f=6.39mm
	Shift	Manual (H = +/- 26% / V = 0%~+55%)	Manual (H = +/- 29% / V = 0%~+60%)	
Keystone Correction		+/- 30° horizontal, +/- 30° vertical		+/- 15° horizontal (manual), +/- 15° vertical (manual + auto)
Synchronization Range	Horizontal	15 to 100KHz (RGB: 24kHz or over)		
	Vertical	24 to 85Hz		
Supported Video Standards				
SD/HD Video Signal Compatibility		4K UHD, 1080p, 1080i, 720p, 576p, 576i, 480p, 480i		
PC Signal Compatibility		VGA, SVGA, XGA, SXGA, SXGA+, WUXGA		
Macintosh Compatibility		Yes		
Input/Output Terminals	RGB1 (analog)	VGA 15 pin D-sub		
	RGB2 (analog)			
	RGB1 (Digital)	HDMI (w/HDCPv1.4)		
	RGB2 (digital)	HDMI (w/HDCPv1.4)		
	RGB3 (digital)			
	RGB4 (digital)			
	RGB5 (digital)			
	RGB6 (digital)			
	Option Slot			
	Video			
	Audio 1	Stereo Mini Jack		
	Audio 2			
	Audio Out	Stereo Mini Jack		
	Monitor Out	VGA 15 pin D-sub		
	USB Type A	Wireless LAN (optional), Memory, (2A)		
	USB Type A (behind cover)			
USB Type B	USB Service			
Wired LAN port		RJ45 (100Base-TX/10Base-T)		
3D Sync Line				
Audio		16W mono		
External Control		RS-232 (D-Sub 9pin), IR, RJ-45		
Sync Compatibility				
Power Requirements		100 – 240V AC, 50/60Hz		
Input Current		4.5 - 1.6A		
Power Consumption		330W / 212W / 187W / 2W / 0.5W	352W / 228W / 201W / 2W / 0.5W	352W / 228W / 201W / 2W / 0.5W
Installation Orientation		Floor/Front, Floor/Rear, Ceiling/Front, Ceiling/Rear		
Dimensions (WxDxH)		15.9 x 5.4 x 14.1 in. (405 x 137 x 358 mm)		15.9 x 6.5 x 15.9 in. (405 x 164 x 404 mm)
Net Weight		17.3 lbs. (7.85 kg)	17.5 lbs. (7.95 kg)	17.9 lbs. (8.1 kg)
Fan Noise		37 dB normal / 27 dB eco		
Regulations		USA: UL (UL60950-1/UL62368-1) FCC Part15 Class B, Canada: CAN/CSA (62368-1-14) ICES-003 Issue 7		
Operating Temperature		32° – 104°F / 0° – 40°C		
Humidity		20-88% non-condensing		
Storage		14° – 122°F / -10° – 50°C		

		P547UL	P627UL	P601Q	P721Q
Display Technology		0.64" LCD w MLA		0.65" DMD	
Light Output (lumens)		5,400 normal / Eco = variable	6,200 normal / Eco = variable	6,000 normal / Eco = variable	7,200 normal / Eco = variable
Screen Resolution	Native	WUXGA 1920 x 1200		4K UHD 3840 x 2160	
	Maximum	4K@30Hz 3840 x 2160		4K UHD 3840 x 2160	
Contrast Ratio (up to)		3,000,000:1 with dynamic contrast		3,000,000:1 with dynamic contrast	
Light source Life (up to)		20,000 hours		20,000 hours	
Screen Size (diagonal)		30 to 300 in. / 0.76 to 7.62m		60 to 300 in. / 1.52 to 7.62m	
Throw Ratio		1.23 - 2.0:1		1.25 - 2.0:1	
Projection Distance		2.6 - 42.3 ft. / 0.8 - 12.9m		5.2 - 42.3 ft. / 1.6 - 12.9m	
Projection Angle		0 to 10.7° tele / 0 to 17.1° wide		0 to 8.8° tele / 0 to 13.9° wide	
Lens	Zoom	Manual		Motorized	
	Zoom Ratio	1.6:1		1.6:1	
	Focus	Manual		Motorized	
	F-number, f-number	F= 1.5~2.1, f= 17.2 to 27.7mm		F= 2.0~2.4, f= 18.7 to 29.6mm	
	Shift	Manual (H = +/- 29% / V = 0%~+60%)		Motorized (H = +/- 25% / V = 0%~+55%)	
Keystone Correction		+/- 30° horizontal, +/- 30° vertical		horizontal, vertical	
Synchronization Range	Horizontal	15 to 100KHz (RGB: 24kHz or over)		15 to 140KHz	
	Vertical	50 to 120Hz		24 to 120Hz, 240Hz	
Supported Video Standards					
SD/HD Video Signal Compatibility		4K UHD, 1080p, 1080i, 720p, 576p, 576i, 480p, 480i		4K UHD, 1080p, 1080i, 720p	
PC Signal Compatibility		VGA, SVGA, XGA, WXGA, SXGA, WUXGA			
Macintosh Compatibility		Yes			
Input/Output Terminals	RGB1 (analog)	VGA 15 pin D-sub			
	RGB2 (analog)				
	RGB1 (Digital)	HDMI (w/HDCPv1.4)		HDMI (w/HDCPv2.2)	
	RGB2 (digital)	HDMI (w/HDCPv1.4)		HDMI (w/HDCPv2.2)	
	RGB3 (digital)				
	RGB4 (digital)	HDBaseT (w/HDCPv1.4)		HDBaseT	
	RGB5 (digital)				
	RGB6 (digital)				
	Option Slot				
	Video				
	Audio 1	Stereo Mini Jack			
	Audio 2				
	Audio Out	Stereo Mini Jack			
	Monitor Out				
	USB Type A	Memory, (2A)		Memory, (1.5A)	
USB Type A (behind cover)	Wireless LAN (optional)				
USB Type B	USB Service				
Wired LAN port		RJ45 (100Base-TX/10Base-T)			
3D Sync Line					
Audio		20W mono		10W x2	
External Control		RS-232 (D-Sub 9pin), IR, RJ-45			
Sync Compatibility					
Power Requirements		100 - 240V AC, 50/60Hz			
Input Current		5.1 - 2.1A		6.5 - 2.6A	
Power Consumption		303W / 222W / 2W / 0.3W	328W / 239W / 2W / 0.3W	530W / 285W / 2W / 0.5W	
Installation Orientation		Floor/Front, Floor/Rear, Ceiling/Front, Ceiling/Rear			
Dimensions (WxDxH)		18.9 x 16.0 x 5.6 in. / 480 x 407 x 142.5mm		19.1 x 7.3 x 17.0 in. (486 x 185.5 x 432.5 mm)	
Net Weight		20.7 lbs. / 9.4 kg		32.0 lbs. (14.5 kg)	
Fan Noise		26 dB normal / 22 dB eco	27 dB normal / 22 dB eco	36 dB normal / 34 dB eco	
Regulations		USA: UL60950-1:2nd edition,2014, UL62368-1:2nd Edition, FDA, FCC Part15 Subpart B(ANSI C63.4:2014), Proposition65, TPCH Canada: CAN/CSA C22.2 No.62368-1-14,2nd Edition,2014, ICES-003 Issue7(ANSI C63.4:2014)		USA: cTUV (UL62368-1 3rd ed.) FCC Part15 Class B, Canada: CAN/CSA (62368-1:19 3rd ed.) ICES-003 Issue 7	
Operating Temperature		32° - 104°F / 0° - 40°C		32° - 113°F / 0° - 45°C	
Humidity		20-80% non-condensing		10-85% non-condensing	
Storage		14° - 122°F / -10° - 50°C		14° - 140°F / -10° - 60°C	

		PA804UL	PA1004UL	
Display Technology		0.76" LCD w MLA		
Light Output (lumens)		8,200 Boost Mode / Eco = variable	10,000 Boost Mode / Eco = variable	
Screen Resolution	Native	WUXGA 1920 x 1200		
	Maximum	4K 4096 x 2160		
Contrast Ratio (up to)		3,000,000:1 with auto iris		
Light source Life (up to)		20,000 hours		
Screen Size (diagonal)		50 to 500 in. / 1.27 to 12.7m		
Throw Ratio	NP44ML-02LK: 0.32:1			
	NP40ZL: 0.79 - 1.11			
	NP41ZL: 1.30 - 3.02			
	NP43ZL: 2.88 - 5.93			
	NP11FL: 0.8:1			
	NP12ZL: 1.16 - 1.56:1			
	NP13ZL: 1.46 - 3.02:1			
	NP14ZL: 2.90 - 4.79:1			
NP15ZL: 4.59 - 7.02:1				
Projection Distance		2.5 to 68.5 ft. / 0.74 to 20.9m		
Projection Angle		10.3 to 10.8° tele / 13.7 to 14.5° wide		
Lens	Zoom	Motorized		
	Zoom Ratio	Variable		
	Focus	Motorized		
	F-number, f-number	NP44ML-01LK: F=2.0, f= 6.27mm		
		NP40ZL: F=2.0 to 2.5, f= 13.3 to 18.6mm		
		NP41ZL: F=1.7 to 2.0, f= 21.8 to 49.8mm		
		NP43ZL: F=2.2 to 2.6, f= 49.7 to 99.8mm		
		NP11FL: F= 2.3, f= 13.2mm		
(NP12ZL) F= 2.2 to 2.69, f= 19.4 to 25.3mm				
(NP13ZL) F= 1.7 to 2.37, f= 24.2 to 48.6mm				
(NP14ZL) F= 2.2 to 2.64, f= 48.5 to 77.6mm				
(NP15ZL) F=2.2 to 2.7, f= 76.6 to 116.5mm				
Shift	Motorized +0.5/-0.1 vertical, +/-30 horizontal			
Keystone Correction		+/- 40° horizontal, +/- 40° vertical		
Synchronization Range	Horizontal	Analog: 15-100kHz, Digital: 15-153kHz		
	Vertical	Analog: 48-120Hz, Digital: 24-120Hz		
Supported Video Standards		NTSC, NTSC4.43, PAL, PAL-60, PAL-M, PAL-N, SECAM		
SD/HD Video Signal Compatibility				
PC Signal Compatibility				
Macintosh Compatibility		Yes		
Input/Output Terminals	RGB1 (analog)			
	RGB2 (analog)			
	RGB1 (Digital)	HDMI (V2.0) w/HDCP (V2.2/1.4)		
	RGB2 (digital)	HDMI (V2.0) w/HDCP (V2.2/1.4)		
	RGB3 (digital)			
	RGB4 (digital)	DisplayPort w/HDCP (V1.3)		
	RGB5 (digital)	HDBaseT w/HDCP (V2.2/1.4)		
	RGB6 (digital)			
	Option Slot			
	Video			
	Audio 1	Stereo Mini Jack		
	Audio 2			
	Audio Out			
	Monitor Out	HDBaseT		
USB Type A				
USB Type A (behind cover)				
USB Type B				
Wired LAN port				
3D Sync Line		3Pin D		
Audio				
External Control		RS-232, IR, HDBaseT, Stereo Mini , RJ-45		
Sync Compatibility		Separate Sync / Composite Sync / Sync on G		
Power Requirements		100 - 240V AC, 50/60Hz		
Input Current		8.6A - 3.8A	10.5A - 4.6A	
Power Consumption		635W / 515W / 0.8W / 0.22W	750W / 610W / 0.8W / 0.22W	
Installation Orientation		Floor/Front, Floor/Rear, Ceiling/Front, Ceiling/Rear		
Dimensions (WxDxH)		23.6 x 8.5 x 19.3 in. / 599 x 216 x 490mm		
Net Weight		53.1 lbs. / 24.1 kg	53.8 lbs. / 24.4 kg	
Fan Noise		30 dB normal / 28 dB eco	35 dB normal / 32 dB eco	
Regulations		USA UL60950-1: 2nd edition, FCC Part15 Subpart B(ANSI C63.4.2014), CAN/CSA C22.2 No.60950-1-07,2nd Edition,2014, ICES-003 Issue6(ANSI C63.4.2014)		
Operating Temperature		41° - 104°F / 5° - 40°C		
Humidity		20-80% non-condensing		
Storage		14° - 122°F / -10° - 50°C		

		PV710UL	PV800UL
Display Technology		0.76" LCD w MLA	
Light Output (lumens)		7,100 Boost Mode / Eco = variable	8,000 Boost Mode / Eco = variable
Screen Resolution	Native	WUXGA 1920 x 1200	
	Maximum	4K 4096 x 2160	
Contrast Ratio (up to)		3,000,000:1 with auto iris	
Light source Life (up to)		20,000 hours	
Screen Size (diagonal)		50 to 500 in. / 1.27 to 12.7m	
Throw Ratio	NP13ZL: 1.46 - 3.02:1		
	NP44ML-02LK: 0.32:1		
	NP40ZL: 0.79 - 1.11		
	NP41ZL: 1.30 - 3.02		
	NP43ZL: 2.88 - 5.93		
Projection Distance		2.5 to 68.5 ft. / 0.74 to 20.9m	
Projection Angle		10.3 to 10.8° tele / 13.7 to 14.5° wide	
Lens	Zoom	Manual	Motorized
	Zoom Ratio	Variable	
	Focus	Manual	Motorized
	F-number, f-number	(NP13ZL) F= 1.7 to 2.37, f= 24.2 to 48.6mm	
		NP44ML-01LK: F=2.0, f= 6.27mm	
		NP40ZL: F=2.0 to 2.5, f= 13.3 to 18.6mm	
		NP41ZL: F=1.7 to 2.0, f= 21.8 to 49.8mm	
	NP43ZL: F=2.2 to 2.6, f= 49.7 to 99.8mm		
	Shift	Motorized +0.5/-0.1 vertical, +/-30 horizontal	
Keystone Correction		+/- 30° horizontal, +/- 30° vertical	
Synchronization Range	Horizontal	Analog: 15-100kHz, Digital: 15-153kHz	
	Vertical	Analog: 48-120Hz, Digital: 24-120Hz	
Supported Video Standards		NTSC, NTSC4.43, PAL, PAL-60, PAL-M, PAL-N, SECAM	
SD/HD Video Signal Compatibility			
PC Signal Compatibility			
Macintosh Compatibility		Yes	
Input/Output Terminals	RGB1 (analog)		
	RGB2 (analog)		
	RGB1 (Digital)	HDMI (V2.0) w/HDCP (V2.2/1.4)	
	RGB2 (digital)	HDMI (V2.0) w/HDCP (V2.2/1.4)	
	RGB3 (digital)		
	RGB4 (digital)		
	RGB5 (digital)	HDBaseT w/HDCP (V1.4)	
	RGB6 (digital)		
	Option Slot		
	Video		
	Audio 1		
	Audio 2		
	Audio Out		
	Monitor Out		
	USB Type A		
USB Type A (behind cover)			
USB Type B			
Wired LAN port			
3D Sync Line			
Audio			
External Control		RS-232, IR, HDBaseT, RJ-45	
Sync Compatibility		Separate Sync / Composite Sync / Sync on G	
Power Requirements		100 - 240V AC, 50/60Hz	
Input Current		5.3A - 2.2A	6.1A - 2.5A
Power Consumption		412W / 456W / 0.6W / 0.17W	445W / 490W / 0.6W / 0.17W
Installation Orientation		Floor/Front, Floor/Rear, Ceiling/Front, Ceiling/Rear	
Dimensions (WxDxH)		19.8 x 16.2 x 6.6 in. / 503 x 411 x 168mm	
Net Weight		24.7 lbs. / 11.2 kg	24.7 lbs. / 11.2 kg
Fan Noise		40 dB normal / 31 dB eco	42 dB normal / 33 dB eco
Regulations		USA UL60950-1: 2nd edition, FCC Part15 Subpart B(ANSI C63.4:2014), CAN/CSA C22.2 No.60950-1-07,2nd Edition,2014, ICES-003 Issue6(ANSI C63.4:2014)	
Operating Temperature		32° - 113°F / 0° - 45°C	
Humidity		20-80% non-condensing	
Storage		14° - 122°F / -10° - 50°C	

## PX2201UL

Display Technology		DLP (0.96" DMD)	
Light Output (lumens)		21,500 (Center)	
Resolution	Native	WUXGA 1920 x 1200	
	Maximum	WQXGA 2560 x 1600	
Contrast Ratio (up to)		10,000:1 with dynamic contrast	
Light source Life (up to)		20,000 hours	
Screen Size (diagonal)		40 to 500 in. / 1.02 to 12.7m	
Throw Ratio	NP45ZL: 0.9 - 1.2:1		
	NP46ZL: 1.2 - 1.56:1		
	NP47ZL: 1.5 - 2.0:1		
	NP48ZL: 2.0 - 4.0:1		
	NP49ZL: 4.0-7.0:1		
Projection Distance		3.3 to 247.4 ft. / 1.0 to 75.4m	
Projection Angle		10.3 to 10.8° tele / 13.7 to 14.5° wide	
Lens	Zoom	Motorized	
	Zoom Ratio	Variable	
	Focus	Motorized	
	F-number, f-number	NP45ZL: F=2.2 to 2.53, f= 19.34 to 25.76mm	
		NP46ZL: F=2.18 to 2.66, f= 25.69 to 33.22mm	
NP47ZL: F=2.17 to 2.65, f= 31.90 to 42.20mm			
NP48ZL: F=2.17 to 2.65, f= 42.60 to 84.80mm			
NP49ZL: F=2.2 to 2.57, f= 83.93 to 146.85mm			
Shift	+50/-10% Vertical, +/-30% Horizontal		
Keystone Correction		+/- 60° horizontal, +/- 40° vertical	
Synchronization Range	Horizontal	Analog: 15-100kHz, Digital: 15-153kHz	
	Vertical	Analog: 48-120Hz, Digital: 24-120Hz	
Supported Video Standards		NTSC, NTSC4.43, PAL, PAL-60, PAL-M, PAL-N, SECAM	
SD/HD Video Signal Compatibility			
PC Signal Compatibility			
Macintosh Compatibility		Yes	
Input/Output Terminals	RGB1 (analog)	VGA 15 pin D-sub, Component video using ADP-CV1E adapter	
	RGB2 (analog)	5-BNC	
	RGB1 (Digital)	HDMI (V2.0) w/HDCP (V1.4/2.2)	
	RGB2 (digital)	HDMI (V2.0) w/HDCP (V1.4/2.2)	
	RGB3 (digital)	DisplayPort w/HDCP (V1.3)	
	RGB4 (digital)	DVI-D w/HDCP (V2.2/1.4)	
	RGB5 (digital)	HDBaseT w/HDCP (V2.2/1.4)	
	RGB6 (digital)	3G-SDI	
	Option Slot		
	Video		
	Audio 1		
	Audio 2		
	Audio Out		
	Monitor Out	VGA 15 pin D-sub	
USB Type A			
USB Type A (behind cover)			
USB Type B			
Wired LAN port			
3D Sync Line		BNC	
Audio			
External Control		RS-232, IR, DDC/CI	
Sync Compatibility		Separate Sync / Composite Sync / Sync on G	
Power Requirements		200 - 240V AC, 50/60Hz	
Input Current		8.7A	
Power Consumption		1922W / 1779W / 1461W / 4.8W / 0.4W	
Installation Orientation		Floor/Front, Floor/Rear, Ceiling/Front, Ceiling/Rear	
Dimensions (WxDxH)		20.9 x 10.8 x 29.4 in. / 530 x 275 x 748 mm	
Net Weight		112.4 lbs. / 67 kg	
Fan Noise		45 dB normal	
Regulations			
Operating Temperature		41° - 104°F / 5° - 40°C	
Humidity		20-80% non-condensing	
Storage		14° - 122°F / -10° - 50°C	

		X141Q	X171Q	
Display Technology		0.8" DLP HEP DMD		
Light Output (lumens)		13,500		
Screen Resolution	Native	WUXGA 1920 x 1200		
	Maximum	4K+ 3840 x 2400		
Contrast Ratio (up to)		3,000,000:1 with dynamic contrast		
Light source Life (up to)		20,000 hours		
Screen Size (diagonal)		40 to 500 in. / 1.02 to 12.7m		
Throw Ratio		XP-57UL: 0.31 - 0.33:1		
		XP-58ZL: 0.55 - 0.75:1		
		XP-59ZL: 0.74 - 1.08:1		
		XP-60ZL: 1.05 - 1.41:1		
		XP-61ZL: 1.40 - 2.11:1		
		XP-62ZL: 2.10 - 4.00:1		
Projection Distance		3.58 to 141 ft. / 1.09 to 43m		
Projection Angle		5.9° to 18.1° tele / 11.4° to 25.8° wide		
Lens	Zoom	Motorized		
	Zoom Ratio	Variable		
	Focus	Motorized		
	F-number, f-number		XP-57UL: TBD	
			XP-58ZL: TBD	
		XP-59ZL: F=2.02 to 2.33, f= 13.47 - 19.67mm		
		XP-60ZL: F=1.90 to 2.09, f= 18.78 - 25.30mm		
	XP-61ZL: F=1.80 to 2.11, f= 25.040 - 37.57mm			
	XP-62ZL: F=1.90 to 2.44, f= 37.23 - 70.60mm			
	Shift	Motorized +0.5/-0.1 vertical, +/-30 horizontal		
Keystone Correction		+/- 36° horizontal, +/- 6° vertical		
Synchronization Range	Horizontal	Analog: 15-100kHz, Digital: 15-153kHz		
	Vertical	Analog: 48-120Hz, Digital: 24-120Hz		
Supported Video Standards		NTSC, NTSC4.43, PAL, PAL-60, PAL-M, PAL-N, SECAM		
SD/HD Video Signal Compatibility				
PC Signal Compatibility				
Macintosh Compatibility				
Input/Output Terminals	RGB1 (analog)			
	RGB2 (analog)			
	RGB1 (Digital)	HDMI (V2.0) w/HDCP (V2.2/1.4)		
	RGB2 (digital)	HDMI (V2.0) w/HDCP (V2.2/1.4)		
	RGB3 (digital)	DisplayPort w/HDCP (V1.3)		
	RGB4 (digital)	DisplayPort w/HDCP (V1.3)		
	RGB5 (digital)	HDBaseT w/HDCP (V2.2/1.4)		
	RGB6 (digital)	12G SDI		
	Option Slot			
	Video			
	Audio 1			
	Audio 2			
	Audio Out			
	Monitor Out			
USB Type A				
USB Type A (behind cover)				
USB Type B				
Wired LAN port				
3D Sync Line				
Audio				
External Control		RS-232, IR, Wired Remote, HDBaseT, DDC/CI, RJ-45, USB (USB 2.0)		
Sync Compatibility		Separate Sync / Composite Sync / Sync on G		
Power Requirements		100 - 240V AC, 50/60Hz		
Input Current		10.0A - 5.0A	10.5A - 4.6A	
Power Consumption		1000W / 900W / 3.0W / 0.5W		
Installation Orientation		Floor/Front, Floor/Rear, Ceiling/Front, Ceiling/Rear		
Dimensions (WxDxH)		19.7 x 23.9 x 8.5 in. / 500 x 606 x 216mm		
Net Weight		84.9 lbs. / 38.5 kg		
Fan Noise		37 dB normal / 35 dB eco	40 dB normal / 38 dB eco	
Regulations		CAN/CSA C22.2 No.62368-1-19, 3rd Edition, ICES-003 Issue 7(ANSI C63.4-2014)		
Operating Temperature		32° - 113°F / 0° - 45°C		
Humidity		20-85% non-condensing		
Storage		14° - 140°F / -10° - 60°C		



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