

# All Laser Technology is Not Created Equal

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

**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
- Constant Brightness Mode sustains light output over a long period of time
- Whisper quiet operation reduces distractions by lowering the noise of the projector
- Imaging Device Lifetime – Equal to or greater than light source
- Virtually maintenance free - Filter free design reduces maintenance requirements
- 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	PA3 Series	PA4 Series	PX Series	PH Series
20,000+ hour light source	X	X	X	X	X	X	X
Adjustable light source	X	X	X	X	X	X	X
White/Color uniformity	X	X	X	X	X	X	X
Tilt-free and portrait	X	X	X	X	X	X	X
HDBaseT			X	X	X	X	X
Filter Free			X	X	X	X	X
Constant brightness			X	X	X	X	X
Whisper Quiet			X		X		
24/7 operation						X	X

		M430WL	M380HL
Display Technology		0.65" DLP	
Light Output (lumens)		4,300 normal / Eco = variable	3,800 normal / Eco = variable
Resolution	Native	WXGA 1280 x 800	1080p 1920 x 1080
	Maximum	4K@30Hz 3840 x 2160	
Contrast Ratio (up to)		2,000:1	1,800:1
Light source Life (up to)		20,000 hours	
Screen Size (diagonal)		30 to 300 in. / 0.76 to 7.6m	
Throw Ratio		1.5 - 2.35:1	1.4 - 2.24:1
Projection Distance		3 - 50 ft. / 0.9 - 15.2m	
Projection Angle		7.7 - 9.8° tele / 12.1 - 15.4° wide (at 60°)	
Lens	Zoom	Manual	
	Zoom Ratio	1.6:1	
	Focus	Manual	
	F-number, f-number	F:2.5~3.26 / f=20.911~32.62mm	
	Shift	Manual (H = 0 / V = 0%~ +15%)	
Keystone Correction		Horizontal (manual), Vertical (manual)	
Synchronization Range	Horizontal	15, 24 to 100kHz (RGB: 24kHz or over)	
	Vertical	48 to 100, 120Hz	
Supported Video Standards			
SD/HD Video Signal Compatibility		4K, 1080p, 1080i, 720p, 576p, 576i, 480p, 480i	
PC Signal Compatibility		VGA, SVGA, XGA, SXGA, WUXGA	
Macintosh Compatibility		Yes	
Input/Output Terminals	RGB1 (analog)	VGA 15 pin D-sub	
	RGB2 (analog)		
	RGB1 (Digital)		
	RGB2 (digital)	HDMI (v2.2 w/HDCPv1.4)	
	RGB3 (digital)	HDMI (v2.2 w/HDCPv1.4)	
	RGB4 (digital)		
	RGB5 (digital)		
	RGB6 (digital)		
	Option Slot		
	Video	RCA	
	Audio 1	Stereo Mini Jack	
	Audio 2		
	Audio Out	Stereo Mini Jack	
	Monitor Out		
	USB Type A	Power, (1.5A)	
	USB Type A (behind cover)		
USB Type B (behind cover)	USB Service		
Wired LAN port			
3D Sync Line			
Audio		10W mono	
External Control		RS-232 (D-Sub 9pin), IR	
Sync Compatibility			
Power Requirements		100 - 240V AC, 50/60Hz	
Input Current		3A	
Power Consumption		240W / 180W / 0.5W	
Installation Orientation		Floor/Front, Floor/Rear, Ceiling/Front, Ceiling/Rear	
Dimensions (WxDxH)		13.3 x 4.7 x 10.4 in. (337 x 119.3 x 265 mm)	
Net Weight		9.7 lbs. (4.4 kg)	
Fan Noise		34 dB normal / 31 dB eco	
Regulations		USA: TUV (UL62368-1) FCC Part15 Class B, Canada: CAN/CSA (62368-1-14) ICES-003 Issue 7	
Operating Temperature		41° - 104°F / 5° - 40°C	
Humidity		20-85% non-condensing	
Storage		14° - 140°F / -10° - 60°C	

		PE506WL	PE506UL
Display Technology		0.64" LCD w MLA	
Light Output (lumens)		5,200 normal / Eco = variable	
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	
Throw Ratio		1.2 - 2.1:1	1.2 - 2.0:1
Projection Distance		2.6 - 44.3 ft. / 0.8 - 13.5m	
Projection Angle		0 to 9.6° tele / 0 to 15.9° wide	0 to 10.8° tele / 0 to 17.0° wide
Lens	Zoom	Manual	
	Zoom Ratio	1.7:1	1.6:1
	Focus	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
	Shift	Manual (H = +/- 26% / V = 0%~+55%)	Manual (H = +/- 29% / V = 0%~+60%)
Keystone Correction		+/- 30° horizontal, +/- 30° vertical	
Synchronization Range	Horizontal	15 to 100KHz (RGB: 24kHz or over)	
	Vertical	24 to 85Hz	
Supported Video Standards			
SD/HD Video Signal Compatibility		4K, 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)		
	RGB2 (digital)	HDMI (w/HDCPv1.4)	
	RGB3 (digital)	HDMI (w/HDCPv1.4)	
	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 (behind cover)	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		TBD	TBD
Power Consumption		TBD	TBD
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)	
Net Weight		17.3 lbs. (7.85 kg)	17.5 lbs. (7.95 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	

		P525WL	P525UL	P605UL	P506QL
Display Technology		0.64" LCD w MLA			0.47" DMD
Light Output (lumens)		5,000 normal / Eco = variable		6,000 normal / Eco = variable	5,000 normal / 3,000 Eco
Resolution	Native	WXGA 1280 x 800	WUXGA 1920 x 1200		4K UHD 3840 x 2160
	Maximum	4K@30Hz 3840 x 2160			4K@60Hz 3840 x 2160
Contrast Ratio (up to)		500,000:1 with dynamic contrast			500,000:1 with dynamic contrast
Light source Life (up to)		20,000 hours			20,000 hours
Screen Size (diagonal)		25 to 300 in. / 0.67 to 7.6m			50 to 310 in. / 1.27 to 7.87m
Throw Ratio		1.23 - 2.0:1			1.127 - 1.697:1
Projection Distance		2.6 - 44.3 ft. / 0.8 - 13.5m			5.2 - 26.2 ft. / 1.6 - 8m
Projection Angle		0 to 10.8° tele / 0 to 17.0° wide			25.46° tele / 34.5° wide
Lens	Zoom	Manual			Manual
	Zoom Ratio	1.6:1			1.5:1
	Focus	Manual			Manual
	F-number, f-number	F= 1.5~2.1, f= 17.2 to 27.6mm			F= 1.8~2.43, f= 12.1 to 18.1mm
	Shift	Manual (H = +/- 29% / V = 0%~+60%)			Manual (H = +/- 20% / V = +/-60%)
Keystone Correction		+/- 30° horizontal, +/- 30° vertical			Vertical
Synchronization Range	Horizontal	15 to 100KHz (RGB: 24kHz or over)			16 to 153KHz (RGB: 24-100kHz)
	Vertical	50 to 120Hz			48 to 100Hz
Supported Video Standards					
SD/HD Video Signal Compatibility		4K, 1080p, 1080i, 720p, 576p, 576i, 480p, 480i			4K, 1080p, 1080i, 720p, 576p, 576i, 480p, 480i
PC Signal Compatibility		VGA, SVGA, XGA, WXGA, Quad-VGA, SXGA, SXGA+, WXGA+, WXGA++, WSXGA+, WUXGA			VGA, SVGA, XGA, WXGA, Quad-VGA, SXGA, SXGA+, WXGA+, UXGA, WSXGA+
Macintosh Compatibility		Yes			
Input/Output Terminals	RGB1 (analog)	VGA 15 pin D-sub, Component video using ADP-CV1E adapter			VGA 15 pin D-sub, Component video using ADP-CV1E adapter
	RGB2 (analog)				
	RGB1 (Digital)				
	RGB2 (digital)	HDMI (w/HDCPv1.4)			HDMI (w/HDCPv2.0)
	RGB3 (digital)	HDMI (w/HDCPv1.4)			HDMI (w/HDCPv2.0)
	RGB4 (digital)	HDBaseT			HDBaseT
	RGB5 (digital)				
	RGB6 (digital)				
	Option Slot				
	Video				
	Audio 1	Stereo Mini Jack			Stereo Mini Jack
	Audio 2				
	Audio Out	Stereo Mini Jack			Stereo Mini Jack
	Monitor Out				
USB Type A	Memory, (2A)			5V/2.0A Power	
USB Type A (behind cover)	Wireless LAN (optional)				
USB Type B (behind cover)	USB Service				
Wired LAN port		RJ45 (100Base-TX/10Base-T)			
3D Sync Line					
Audio		20W mono			10W mono
External Control		RS-232 (D-Sub 9pin), IR, RJ-45			
Sync Compatibility					
Power Requirements		100 - 240V AC, 50/60Hz			
Input Current		5.0 - 2.1A	5.1 - 2.1A	5.5 - 2.3A	6.0A
Power Consumption		320W / 232W / 1.4W / 0.13W	330W / 240W / 1.4W / 0.13W	367W / 261W / 1.4W / 0.13W	580W / 330W / 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			18.9 x 15.7 x 6.8 in. / 480 x 407 x 142.5mm
Net Weight		21.3 lbs. / 9.7 kg			25.4 lbs. / 11.5 kg
Fan Noise		27 dB normal / 22 dB eco		28 dB normal / 19 dB eco	35 dB normal / 32 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.60950-1-07,2nd Edition,2014, ICES-003 Issue6(ANSI C63.4:2014)			UL60950-1:2nd edition,2014, UL62368-1:2nd Edition, UL62368-1:3rd Edition, FDA, FCC Part15 Subpart B(ANSI C63.4:2014), Proposition65, TPCH, CAN/CSA C22.2 No.62368-1-14,2nd 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			

		PA703UL	PA804UL	PA1004UL
Display Technology		0.76" LCD w MLA	0.76" LCD w MLA	
Light Output (lumens)		7,000 normal / Eco = variable	8,200 Boost Mode / Eco = variable	10,000 Boost Mode / Eco = variable
Resolution	Native	WUXGA 1920 x 1200	WUXGA 1920 x 1200	
	Maximum	4K 4096 x 2160	4K 4096 x 2160	
Contrast Ratio (up to)		2,500,000:1 with auto iris	3,000,000:1 with auto iris	
Light source Life (up to)		20,000 hours	20,000 hours	
Screen Size (diagonal)		50 to 500 in. / 1.27 to 12.7m	50 to 500 in. / 1.27 to 12.7m	
Throw Ratio		NP44ML01LK: 0.32:1 NP40ZL: 0.79 - 1.11 NP41ZL: 1.30 - 3.02 NP43ZL: 2.88 - 5.93	NP44ML01LK: 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	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	10.3 to 10.8° tele / 13.7 to 14.5° wide	
Lens	Zoom	Motorized	Motorized	
	Zoom Ratio	Variable	Variable	
	Focus	Motorized	Motorized	
	F-number, f-number	NP44ML01LK: 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	NP44ML01LK: 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	Motorized +0.5/-0.1 vertical, +/-30 horizontal	
Keystone Correction		+/- 40° horizontal, +/- 40° vertical	+/- 40° horizontal, +/- 40° vertical	
Synchronization Range	Horizontal	Analog: 15-100kHz, Digital: 15-153kHz	Analog: 15-100kHz, Digital: 15-153kHz	
	Vertical	Analog: 48-120Hz, Digital: 24-120Hz	Analog: 48-120Hz, Digital: 24-120Hz	
Supported Video Standards		NTSC, NTSC4.43, PAL, PAL-60, PAL-M, PAL-N, SECAM	NTSC, NTSC4.43, PAL, PAL-60, PAL-M, PAL-N, SECAM	
SD/HD Video Signal Compatibility		4K, 1080p, 1080i, 720p, 576p, 576i, 480p, 480i		
PC Signal Compatibility		VGA, SVGA, XGA, SXGA, SXGA+, UXGA, WUXGA, 4K		
Macintosh Compatibility		Yes	Yes	
Input/Output Terminals	RGB1 (analog)	VGA 15 pin D-sub, Component video using ADP.CV1E adapter		
	RGB2 (analog)			
	RGB1 (Digital)			
	RGB2 (digital)	HDMI (V2.0) w/HDCP (V1.4/2.2)	HDMI (V2.0) w/HDCP (V1.4/2.2)	
	RGB3 (digital)	HDMI (V2.0) w/HDCP (V1.4/2.2)	HDMI (V2.0) w/HDCP (V1.4/2.2)	
	RGB4 (digital)	DisplayPort w/HDCP (V1.4)	DisplayPort w/HDCP (V1.4)	
	RGB5 (digital)	HDBaseT w/HDCP (V1.4/2.2)	HDBaseT w/HDCP (V1.4/2.2)	
	RGB6 (digital)			
	Option Slot			
	Video			
	Audio 1	Stereo Mini Jack	Stereo Mini Jack	
	Audio 2			
	Audio Out			
	Monitor Out	HDBaseT	HDBaseT	
	USB Type A			
	USB Type A (behind cover)			
	USB Type B (behind cover)			
Wired LAN port				
3D Sync Line		3Pin D	3Pin D	
Audio				
External Control		RS-232, IR, HDBaseT, Stereo Mini, RJ-45	RS-232, IR, HDBaseT, Stereo Mini, RJ-45	
Sync Compatibility		Separate Sync / Composite Sync / Sync on G	Separate Sync / Composite Sync / Sync on G	
Power Requirements		100 - 240V AC, 50/60Hz	100 - 240V AC, 50/60Hz	
Input Current		10.5A - 4.5A	8.6A - 3.8A	10.5A - 4.6A
Power Consumption		647W / 414W / 0.64W / 0.11	635W / 515W / 0.8W / 0.22W	750W / 610W / 0.8W / 0.22W
Installation Orientation		Floor/Front, Floor/Rear, Ceiling/Front, Ceiling/Rear	Floor/Front, Floor/Rear, Ceiling/Front, Ceiling/Rear	
Dimensions (WxDxH)		22.8 x 19.4 x 8.2 in. / 580 x 494 x 208mm	23.6 x 8.5 x 19.3 in. / 599 x 216 x 490mm	
Net Weight		40.1lbs. / 18.2 kg	53.1 lbs. / 24.1 kg	53.8 lbs. / 24.4 kg
Fan Noise		42 dB normal / 34 dB eco	30 dB normal / 28 dB eco	35 dB normal / 32 dB eco
Regulations		USA: FCC Part15 Subpart B(ANSI C63.4:2014), UL62368-1:2nd Edition Canada: CSA C22.2 No.60950-1-07,2nd Edition,2014, NOM	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		

		PX1004UL	PX2201UL	
Display Technology		0.67" DMD	DLP (0.96" DMD)	
Light Output (lumens)		10,000 normal / Eco = variable	21,500	
Resolution	Native	WUXGA 1920 x 1200	WUXGA 1920 x 1200	
	Maximum	4K 4096 x 2160	WUXGA 2560 x 1600	
Contrast Ratio (up to)		15,000:1 with dynamic contrast	10,000:1 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	40 to 500 in. / 1.02 to 12.7m	
Throw Ratio		NP39ML: 0.38:1	NP45ZL: 0.9 - 1.2:1	
		NP31ZL: 0.75 - 0.93:1	NP46ZL: 1.2 - 1.56:1	
		NP16FL: 0.76:1	NP47ZL: 1.5 - 2.0:1	
		NP17ZL: 1.25 - 1.79:1	NP48ZL: 2.0 - 4.0:1	
		NP18ZL: 1.73 - 2.27:1	NP49ZL: 4.0-7.0:1	
		NP19ZL: 2.22 - 3.67:1		
		NP20ZL: 3.58 - 5.38:1		
	NP21ZL: 5.31 - 8.26:1			
Projection Distance		2.1 to 179.8 ft. / 0.64 to 54.8m	3.3 to 247.4 ft. / 1.0 to 75.4m	
Projection Angle		2.1 to 19.1° tele / 3.3 to 24.0° wide	10.3 to 10.8° tele / 13.7 to 14.5° wide	
Lens	Zoom	Motorized	Motorized	
	Zoom Ratio	Variable	Variable	
	Focus	Motorized	Motorized	
	F-number, f-number		NP39ML: F=2.0, f=5.64mm	NP45ZL: F=2.2 to 2.53, f= 19.34 to 25.76mm
			NP31ZL: F=1.96 to 2.3, f=11.3 to 14.1mm	NP46ZL: F=2.18 to 2.66, f= 25.69 to 33.22mm
			NP-16FL: F=1.85, f=11.6mm	NP47ZL: F=2.17 to 2.65, f= 31.90 to 42.20mm
			NP17ZL: F=1.85 to 2.5, f=18.7 to 26.5mm	NP48ZL: F=2.17 to 2.65, f= 42.60 to 84.80mm
		NP18ZL: F=1.64 to 1.86, f=25.7 to 33.7mm	NP49ZL: F=2.2 to 2.57, f= 83.93 to 146.85mm	
		NP19ZL: F=1.86 to 2.48, f=32.9 to 54.2mm		
	NP20ZL: F=1.85 to 2.4, f=52.8 to 79.1mm			
	NP21ZL: F=1.85 to 2.48, f =78.5 to 121.9mm			
	Shift	Motorized +0.59 vertical, +/-28 horizontal	+50/-10% Vertical, +/-30% Horizontal	
Keystone Correction		+/- 40° horizontal, +/- 40° vertical	+/- 60° horizontal, +/- 40° vertical	
Synchronization Range	Horizontal	Analog: 15-100kHz, Digital: 15-153kHz	Analog: 15-100kHz, Digital: 15-153kHz	
	Vertical	Analog: 48-120Hz, Digital: 24-120Hz	Analog: 48-120Hz, Digital: 24-120Hz	
Supported Video Standards		NTSC, NTSC4.43, PAL, PAL-60, PAL-M, PAL-N, SECAM	NTSC, NTSC4.43, PAL, PAL-60, PAL-M, PAL-N, SECAM	
SD/HD Video Signal Compatibility				
PC Signal Compatibility				
Macintosh Compatibility		Yes	Yes	
Input/Output Terminals	RGB1 (analog)		VGA 15 pin D-sub, Component video using ADP-CV1E adapter	
	RGB2 (analog)	5-BNC	5-BNC	
	RGB1 (Digital)		HDMI (V2.0) w/HDCP (V1.4/2.2)	
	RGB2 (digital)	HDMI (V1.4) w/HDCP	HDMI (V2.0) w/HDCP (V1.4/2.2)	
	RGB3 (digital)	DisplayPort w/HDCP	DisplayPort w/HDCP (V1.4)	
	RGB4 (digital)	HDBaseT	DVI-D w/HDCP (V1.4/2.2)	
	RGB5 (digital)		HDBaseT w/HDCP (V1.4/2.2)	
	RGB6 (digital)		3G-SDI	
	Option Slot	OPS		
	Video			
	Audio 1			
	Audio 2			
	Audio Out			
	Monitor Out	HDMI (V1.4) w/HDCP	VGA 15 pin D-sub	
USB Type A				
USB Type A (behind cover)				
USB Type B (behind cover)				
Wired LAN port				
3D Sync Line		3Pin D	BNC	
Audio				
External Control		RS-232, IR, HDBaseT, Stereo Mini, RJ-45	RS-232, IR, DDC/CI	
Sync Compatibility		Separate Sync / Composite Sync / Sync on G	Separate Sync / Composite Sync / Sync on G	
Power Requirements		100 - 240V AC, 50/60Hz	200 - 240V AC, 50/60Hz	
Input Current		11.8A - 5.2A	8.7A	
Power Consumption		1220W/625W/4.3W/0.2W	1922W / 1779W / 1461W / 4.8W / 0.4W	
Installation Orientation		Floor/Front, Floor/Rear, Ceiling/Front, Ceiling/Rear	Floor/Front, Floor/Rear, Ceiling/Front, Ceiling/Rear	
Dimensions (WxDxH)		19.7 x 22.8 x 8.5 in. / 500 x 583 x 216mm	20.9 x 10.8 x 29.4 in. / 530 x 275 x 748 mm	
Net Weight		63.9 lbs. / 29.0 kg	112.4 lbs. / 67 kg	
Fan Noise		42 dB normal / 37 dB eco	45 dB normal	
Regulations		USA: UL(UL60950-1, Laser + Lamp (IEC60825-1 + IEC62471), FCC Part15 Class A Canada: CUL(UL60950-1, Laser + Lamp (IEC60825-1 + IEC62471), ICES-003 Class A		
Operating Temperature		41° - 104°F / 5° - 40°C		
Humidity		20-80% non-condensing		
Storage		14° - 122°F / -10° - 50°C		

PH3501QL			
Display Technology			
Light Output (lumens)		35,000 normal / Eco = variable	
Resolution	Native	DC4K 4096 x 2160	
	Maximum	4K 4096 x 2160	
Contrast Ratio (up to)		2,000:1 with dynamic contrast	
Light source Life (up to)		20,000 hours	
Screen Size (diagonal)		50 to 500 in. / 1.27 to 12.7m	
Throw Ratio	L2K-10F1: 0.93:1		
	L4K-11ZM: 1.24 - 1.73:1		
	L4K-15ZM: 1.52 - 2.10:1		
	L4K-20ZM: 1.98 - 3.34:1		
	L2K-30ZM: 2.71 - 3.92:1		
	L2K-43ZM1: 3.91 - 5.52:1		
L2K-55ZM1: 5.00 - 7.80:1			
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	L2K-10F1: F=2.5, f= 28.95mm	
		L4K-11ZM: F=2.5, f= 38.5 to 53.7mm	
		L4K-15ZM: F=2.5, f= 47.5 to 65.6mm	
		L4K-20ZM: F=2.5, f= 61.4 to 105.2mm	
		L2K-30ZM: F=2.5, f= 85.0 to 121.6mm	
		L2K-43ZM1: F=2.5, f= 122.8 to 172.3mm	
	L2K-55ZM1: F=2.5, f= 156.5 to 243.1mm		
		Motorized +/-0.27 Vertical, +/-0.08 Horizontal	
		Motorized +/-0.17 Vertical, +/-0.50 Horizontal	
Shift	L2K-55ZM1:	Motorized +/-0.31 Vertical, +/-0.10 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			
Input/Output Terminals	RGB1 (analog)		
	RGB2 (analog)		
	RGB1 (Digital)	HDMI (V2.0) w/HDCP (V1.4/2.2) - 4096 x 2160 @ 60p, 12 bit 4:4:4	
	RGB2 (digital)	HDMI (V2.0) w/HDCP (V1.4/2.2) - 4096 x 2160 @ 60p, 12 bit 4:4:4	
	RGB3 (digital)	DisplayPort w/HDCP (V1.4) - 4096 x 2160 @ 60p, 12 bit 4:4:4	
	RGB4 (digital)	DisplayPort w/HDCP (V1.4) - 4096 x 2160 @ 60p, 12 bit 4:4:4	
	RGB5 (digital)	HDBaseT w/HDCP (V1.4/2.2) - 4096 x 2160 @ 60p, 8 bit 4:2:0	
	RGB6 (digital)	Quad 3G-SDI	
	Option Slot		
	Video		
	Audio 1		
	Audio 2		
	Audio Out		
	Monitor Out		
USB Type A			
USB Type A (behind cover)			
USB Type B (behind cover)			
Wired LAN port			
3D Sync Line		15 pin	
Audio			
External Control		RS-232, IR, HDBaseT, Stereo Mini, RJ-45	
Sync Compatibility		Separate Sync / Composite Sync / Sync on G	
Power Requirements		220 - 240V AC, 50/60Hz Single Phase	
Input Current		30A	
Power Consumption		4705W / 205W	
Installation Orientation			
Dimensions (WxDxH)		27.4 x 46.5 x 17.9 in. / 697 x 1180 x 455mm	
Net Weight		372.6 lbs. / 169 kg	
Fan Noise		55 dB normal	
Regulations		UL60950-1 (2nd) FCC Part15 Class A (Marking: UL) CSA60950-1 / ICES-003 Class A (Marking: CAN ICES-38(A)/NMB-38(A)) EN60950-1/EN5022 Class A, EN55032 Class A, EN55024, EN61000-3-2/-3-3/-11/-3-12 (Marking CE) IEC60825-1 Edition3 2014 : Class1, IEC62471 2006 : RG3, FDA(21 CFR 1040.10 and 1040.11) IEC60825-1 Edition3 2014 : Class1, IEC62471 2006 : RG3	
Operating Temperature		41° - 104°F / 5° - 40°C	
Humidity		20-80% non-condensing	
Storage		14° - 122°F / -10° - 50°C	

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