

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
- HDBaseT for easy connection and cost saving installation
- Tilt-free and Portrait mode features improving installation flexibility
- Adjustable light source for control in any ambient lighting condition
- Constant Brightness Mode sustains light output over a long period of time



*Explore NEC's
Laser Phosphor
Projector Lineup*



See how DLP display technology outperforms its competition:

- Imaging Device Lifetime – Equal to or greater than light source
- White/Color uniformity – Uniform from corner to corner
- Virtually maintenance free – Filter free
- 24/7 operation - suited for Network Operation Centers and Digital Signage applications

	P502WL	P502HL	PX602WL	PX602UL	PX803UL		PH1202HL1	PH1201QL	
Display Technology	0.65" DMD	0.65" DMD	0.65" DMD	0.67" DMD	0.67" DMD		0.65" DMD	1.38" DMD	
Light Output (lumens)	5000 normal / Eco = variable	5000 normal / Eco = variable	6000 normal / Eco = variable	6000 normal / Eco = variable	8000 normal / Eco = variable	10,000 normal / Eco = variable	12000 normal / Eco = variable	12000 normal / Eco = variable	
Resolution	Native	WXGA 1280 x 800	1080p 1920 x 1080	WXGA 1280 x 800	WUXGA 1920 x 1200	WUXGA 1920 x 1200	1080p 1920 x 1080	DC4K 4096 x 2160	
	Maximum	WUXGA 1280 x 800	WUXGA 1920 x 1200	4K 4096 x 2160	4K 4096 x 2160	4K 4096 x 2160	4K 4096 x 2160	4K 4096 x 2160	
Contrast Ratio (up to)	15,000:1 with dynamic contrast			10,000:1 with dynamic contrast		15,000:1 with dynamic contrast		2,000:1 with dynamic contrast	
Lamp Life (up to)	20,000 hours	20,000 hours	20,000 hours	20,000 hours	20,000 hours		20,000 hours	20,000 hours	
Screen Size (diagonal)	30 to 300 in. / 0.76 to 7.62m	50 to 300 in. / 0.76 to 7.62m	50 to 300 in. / 1.27 to 7.62m	50 to 300 in. / 1.27 to 7.62m	30 to 300 in. / 0.76 to 7.62m		100 to 500 in. / 2.54 to 12.7m	80 to 500 in. / 2.03 to 12.7m	
Throw Ratio	1.3 - 2.2:1	1.24 - 2.1:1	NP33ZL: 0.75 - 0.95:1 NP34ZL: 0.95 - 1.20:1 NP35ZL: 1.23 - 1.52:1 NP36ZL: 1.28 - 1.60:1 NP37ZL: 1.52 - 2.92:1 NP38ZL: 2.90 - 5.50:1	NP33ZL: 0.75 - 0.95:1 NP34ZL: 0.95 - 1.20:1 NP35ZL: 1.23 - 1.52:1 NP36ZL: 1.28 - 1.60:1 NP37ZL: 1.52 - 2.92:1 NP38ZL: 2.90 - 5.50:1	NP39ML: 0.38:1 NP31ZL: 0.75 - 0.93:1 NP16FL: 0.76:1 NP17ZL: 1.25 - 1.79:1 NP18ZL: 1.73 - 2.27:1 NP19ZL: 2.22 - 3.67:1 NP20ZL: 3.58 - 5.38:1 NP21ZL: 5.31 - 8.26:1		NP-9LZ08ZM1: 0.9 - 1.34:1 NP-9LS12ZM1: 1.28 - 1.83:1 NP-9LS13ZM1: 1.42 - 2.24:1 NP-9LS16ZM1: 1.73 - 2.88:1 NP-9LS20ZM1: 2.23 - 4.16:1 NP-9LS40ZM1: 4.43 - 6.76:1	L2K-10F1: 0.9:1 NC-50LS12Z: 1.13 - 1.55:1 NC-50LS14Z: 1.30 - 1.85:1 NC-50LS16Z: 1.45 - 2.17:1 NC-50LS18Z: 1.63 - 2.71:1 NC-50LS21Z: 1.95 - 3.26:1 L2K-43ZM1: 3.70 - 5.30:1 L2K-55ZM1: 4.80 - 7.40:1	
	Projection Distance	2.6 to 46.6 ft. / 0.8 to 14.2m	2.6 to 47.6 ft. / 0.8 to 14.5m	2.8 to 120.8 ft. / 0.9 to 36.8m	2.58 to 114.9 ft. / 0.79 to 35.0m	2.1 to 179.8 ft. / 0.64 to 54.8m		4.6 to 245.1 ft. / 1.4 to 74.7m	2.1 to 179.8 ft. / 0.64 to 54.8m
	Projection Angle	12.6 to 12.9° tele / 21.0 to 21.9° wide	13.2 to 13.5° tele / 21.9 to 22.9° wide	53.1 to 17.5° tele / 5.7 to 22.0° wide	3.2 to 18.0° tele / 6.0 to 23.0° wide	2.1 to 19.1° tele / 3.3 to 24.0° wide		5.8 to 14.4° tele / 10.9 to 18.4° wide	2.1 to 19.1° tele / 3.3 to 24.0° wide
	Lens	Zoom	Manual	Manual	Powered	Powered	Powered	Powered	Powered
		Zoom Ratio	1.7:1	1.7:1	Variable	Variable	Variable	Variable	Variable
		Focus	Manual	Manual	Powered	Powered	Powered	Powered	Powered
		F-number, f-number	F= 2.0, f= 18.2 to 31.1mm	F= 2.0, f= 18.2 to 31.1mm	NP33ZL: F= 2.3 to 2.53, f= 11.11 to 14.06mm NP34ZL: F= 2.3 to 2.57, f= 14.03 to 17.95mm NP35ZL: F= 2.0 to 2.32, f= 18.07 to 22.59mm NP36ZL: F= 2.0 to 2.32, f= 18.07 to 22.59mm NP37ZL: F= 2.3 to 3.39, f= 22.56 to 42.87mm NP38ZL: F= 2.3 to 2.74, f= 42.63 to 80.91mm	NP33ZL: F= 2.3 to 2.53, f= 11.11 to 14.06mm NP34ZL: F= 2.3 to 2.53, f= 11.11 to 14.06mm NP35ZL: F= 2.3 to 2.57, f= 14.03 to 17.95mm NP36ZL: F= 2.0 to 2.32, f= 18.07 to 22.59mm NP37ZL: F= 2.0 to 2.32, f= 18.07 to 22.59mm NP38ZL: F= 2.3 to 3.39, f= 22.56 to 42.87mm F= 2.3 to 2.74, f= 42.63 to 80.91mm	NP31ZL: F= 1.96 to 2.3, f= 11.3 to 14.1mm NP-16FL: F= 1.85, f= 11.6mm NP17ZL: F= 1.85 to 2.5, f= 18.7 to 26.5mm NP18ZL: F= 1.64 to 1.86, f= 25.7 to 33.7mm 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		NP-9LZ08ZM1: F= 2.5 - 3.0, f= 13.3 - 19.9mm NP-9LS12ZM1: F= 2.5, f= 18.6 - 26.7mm NP-9LS13ZM1: F= 2.5, f= 20.7 - 32.7mm NP-9LS16ZM1: F= 2.5, f= 25.2 - 42mm NP-9LS20ZM1: F= 2.5, f= 32.2 - 60.3mm NP-9LS40ZM1: F= 2.5, f= 62.1 - 97.8mm
Shift		Powered +0.59 vertical, +/-0.28 horizontal	Powered +0.62 vertical, +/-0.25 horizontal	Powered +/-0.5 vertical, +/-0.15 horizontal	Powered +/-0.5 vertical, +/-0.15 horizontal	Powered +0.59 vertical, +/-28 horizontal		Powered +/-0.5 vertical, +/-11 horizontal	Powered +0.5 vertical, +/-28 horizontal
Keystone Correction		+/- 25° horizontal, +/- 30° vertical		+/- 40° horizontal, +/- 40° vertical				+/- 40° horizontal, +0.06/-0.08° 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		1080p, 1080i, 720p, 576p, 576i, 480p, 480i							
PC Signal Compatibility	VGA, SVGA, XGA, SXGA, SXGA+, UXGA, WUXGA		VGA, SVGA, XGA, SXGA, SXGA+, WXGA, UXGA, FHD, WUXGA, 2K, QXGA, WQXGA, 4k						
Macintosh Compatibility	Yes								
Input/Output Terminals	RGB1 (analog)	VGA 15 pin D-sub, Component video using ADP-CV1E adapter							
	RGB2 (analog)			5-BNC	5-BNC	5-BNC	5-BNC		
	RGB3 (digital)	HDMI (V1.4) w/HDCP	HDMI (V1.4) w/HDCP	HDMI (V1.4) w/HDCP	HDMI (V1.4) w/HDCP	HDMI (V1.4) w/HDCP	HDMI (V1.4) w/HDCP	(2) HDMI (V1.4) w/HDCP	
	RGB4 (digital)	HDMI (V1.4) w/HDCP	HDMI (V1.4) w/HDCP	DisplayPort w/HDCP	DisplayPort w/HDCP	DisplayPort w/HDCP	DisplayPort w/HDCP	(2) DVI w/HDCP	
	RGB5 (digital)	HDBaseT	HDBaseT	HDBaseT	HDBaseT	HDBaseT	HDBaseT	(2) 3G-SDI	
	Option Slot			OPS	OPS	OPS	OPS		
	Video	RCA	RCA						
	Audio 1	L/R RCA (shared by video sources)	L/R RCA (shared by video sources)						
Audio 2	1/8 in. stereo	1/8 in. stereo							
Audio Out	mini stereo (Variable audio out)	mini stereo (Variable audio out)							
Monitor Out	15Pin D-sub	15Pin D-sub	HDMI (V1.4) w/HDCP	HDMI (V1.4) w/HDCP	HDMI (V1.4) w/HDCP	HDMI (V1.4) w/HDCP	HDMI (V1.4) w/HDCP		
3D Sync Line	3Pin D	3Pin D	3Pin D	3Pin D	3Pin D		3Pin D		
Audio	20W mono	20W mono							
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	5.7 - 2.3A	5.7 - 2.3A	6.8 - 2.5A	6.8 - 2.5A	9.4 - 3.8A	5.2 - 11.6A	9.2A	8.2A	
Power Consumption	464W / 362W / 2.1W / 0.5W	464W / 362W / 2.1W / 0.5W	590W / 460W / 4.15W / 0.28W	590W / 460W / 4.15W / 0.28W	874W/456W/4.3W/0.18W	1220W/625W/4.3W/0.2W	1392W / 1110W / 752W / 1291W / 1.83W / 5.7W		1608W
Installation Orientation	Floor/Front, Floor/Rear, Ceiling/Front, Ceiling/Rear								
Dimensions (WxDxH)	18.5 x 14.4 x 5.4 in. / 469 x 365 x 137mm	18.5 x 14.4 x 5.4 in. / 469 x 365 x 137mm	19.1 x 22.6 x 8.5 in. / 484 x 575 x 217mm	19.1 x 22.6 x 8.5 in. / 484 x 575 x 217mm	19.7 x 22.8 x 8.5 in. / 500 x 583 x 216mm		26.8 x 33.9 x 13.1 in. / 680 x 860 x 333mm	27.5 x 36.8 x 12.7 in. / 700 x 935 x 323 mm	
Net Weight	19.4 lbs. / 8.8 kg	19.4 lbs. / 8.8 kg	40.8 lbs. / 18.5 kg	40.8 lbs. / 18.5 kg	61.7 lbs. / 28.0 kg	63.9 lbs. / 29.0 kg	149.9 lbs. / 68 kg	148.9 lbs. / 67.5 kg	
Fan Noise	39 dB normal / 33 dB eco		39 dB normal / 34 dB eco		40 dB normal / 35 dB eco		47 dB normal	48 dB normal	
Regulations	*USA: UL/UL60950-1, Laser + Lamp (IEC60825-1 Ed.3 + IEC62471-1/-5), FCC Part15 Class B Canada: CUL/UL60950-1, Laser + Lamp (IEC60825-1 Ed.3 + IEC62471-1/-5), ICES-003 Class B*		USA: UL 1900 FCC Class B, Canada: CSA950 (C-UL), NOM		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		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		41° - 104°F / 5° - 40°C		41° - 104°F / 5° - 40°C		41° - 104°F / 5° - 40°C		
Humidity	20-80% non-condensing								
Storage	-14° - 122°F / -10° - 50°C								

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