

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	NP33ZL: 0.75 - 0.95:1	NP-39ML: 0.38:1		NP-9LZ08ZM1: 0.9 - 1.34:1	L2K-10F1: 0.9:1
				NP34ZL: 0.95 - 1.20:1	NP34ZL: 0.95 - 1.20:1	NP31ZL: 0.75 - 0.93:1		NP-9LS12ZM1: 1.28 - 1.83:1	NC-50LS12Z: 1.13 - 1.55:1
				NP35ZL: 1.23 - 1.52:1	NP35ZL: 1.23 - 1.52:1	NP16FL: 0.76:1		NP-9LS13ZM1: 1.42 - 2.24:1	NC-50LS14Z: 1.30 - 1.85:1
				NP36ZL: 1.28 - 1.60:1	NP36ZL: 1.28 - 1.60:1	NP17ZL: 1.25 - 1.79:1		NP-9LS16ZM1: 1.73 - 2.88:1	NC-50LS16Z: 1.45 - 2.17:1
				NP37ZL: 1.52 - 2.92:1	NP37ZL: 1.52 - 2.92:1	NP18ZL: 1.73 - 2.27:1		NP-9LS20ZM1: 2.23 - 4.16:1	NC-50LS18Z 1.63 - 2.71:1
				NP38ZL: 2.90 - 5.50:1	NP38ZL: 2.90 - 5.50:1	NP19ZL: 2.22 - 3.67:1		NP-9LS40ZM1: 4.43 - 6.76:1	NC-50LS21Z: 1.95 - 3.26:1
						NP20ZL: 3.58 - 5.38:1			L2K-43ZM1: 3.70 - 5.30:1
						NP21ZL 5.31 - 8.26:1			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	NP33ZL: F= 2.3 to 2.53, f= 11.11 to 14.06mm	NP31ZL: F=1.96 to 2.3, f=11.3 to 14.1mm		NP-9LZ08ZM1: F=2.5 - 3.0, f= 13.3 - 19.9mm	L2K-10F1: TBD
				NP34ZL: F= 2.3 to 2.57, f= 14.03 to 17.95mm	F= 2.3 to 2.53, f= 11.11 to 14.06mm	NP-16FL: F=1.85, f=11.6mm		NP-9LS12ZM1: F=2.5, f= 18.6 - 26.7mm	NC-50LS12Z: F=2.5, f= 35.2 - 51.6mm
				NP35ZL: F= 2.0 to 2.32, f= 18.07 to 22.59mm	F= 2.3 to 2.57, f= 14.03 to 17.95mm	NP17ZL: F=1.85 to 2.5, f=18.7 to 26.5mm		NP-9LS13ZM1: F=2.5, f= 20.7 - 32.7mm	NC-50LS14Z: F=2.5, f= 40.6 - 57.8mm
				NP36ZL: F= 2.0 to 2.32, f= 18.07 to 22.59mm	F= 2.0 to 2.32, f= 18.07 to 22.59mm	NP18ZL: F=1.64 to 1.86, f=25.7 to 33.7mm		NP-9LS16ZM1: F=2.5, f= 25.2 - 42mm	NC-50LS16Z: F=2.5, f= 45.2 - 68mm
				NP37ZL: F= 2.3 to 3.39, f= 22.56 to 42.87mm	F= 2.0 to 2.32, f= 18.07 to 22.59mm	NP19ZL: F=1.86 to 2.48, f=32.9 to 54.2mm		NP-9LS20ZM1: F=2.5, f= 32.2 - 60.3mm	NC-50LS18Z F=2.5, f= 50.9 - 85.2mm
				NP38ZL: F= 2.3 to 2.74, f= 42.63 to 80.91mm	F= 2.3 to 3.39, f= 22.56 to 42.87mm	NP20ZL: F=1.85 to 2.4, f=52.8 to 79.1mm		NP-9LS40ZM1: F=2.5, f= 62.1 - 97.8mm	NC-50LS21Z: F=2.5, f= 60.8 - 102.3mm
					F= 2.3 to 2.74, f= 42.63 to 80.91mm	NP21ZL: F=1.85 to 2.48, f=78.5 to 121.9mm			L2K-43ZM1: TBD
									L2K-55ZM1: TBD
	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					
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		
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	42 dB normal / 37 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 1950 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	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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