

Specifications for Lion XL, UXL

Specifications apply to Lion XL, and Lion UXL as noted

Mechanical

Specification	Maximum	Minimum	Typical	Notes
Outside dimensions Lion XL, UXL				
Width	53.58"			1361 mm
Height	58.11"			1476 mm
Depth	32.6"			828 mm
Weight, all s	247 lbs			113 kg
screen	48 lbs			22 kg
lower section	98 lbs			45 kg
upper section	101 lbs			46 kg
Shipping weight	~ 350 lbs			~ 159 kg (147L x 109W x 135H cm) (58"L x 43"W x 53"H)
Stacking				
Horizontal	Unlimited			
Vertical	4			
Orientation	20°			Tilt of top surface plane on any axis
Chassis color			Black	
Ventilation requirement		8", 200 mm		Clearance at rear for level displays. For tilted displays, must have enough room to stand and work.
Screen size Lion XL, UXL				
Diagonal	67"			1700 mm
Width	53.6"			1361 mm
Height	40.2"			1021 mm
Mullion	0.07"			1.75 mm
screen-to-screen gap	0.02"			0.5 mm

Electrical and Heat

Specification	Maximum	Minimum	Typical	Notes
Video input amplitude				
Separate analog	1.0 V p-p	0.5 V p-p	0.7 V p-p	75 ohm termination
Composite analog	5.0 V p-p		0.3 V p-p	75 ohm termination
TTL H and V sync	5.0 V	2.5 V	3.5 V	TTL at 330 ohm termination
Input connectors				
15-pin D-sub female				Analog 1, Analog 2, In and Out
DVI				Digital In and Out; DVI std
BNC (optional)				Composite video
4-pin DIN (optional)				In and Out
RJ45				In and Out

Electrical and Heat

Specification	Maximum	Minimum	Typical	Notes
Frequency, see table below				
Total pixels, lines, see table below				
AC requirements				
Line voltage	115 V range	120 V	100 V	45–65 Hz auto-ranging, power factor corrected
	230 V range	240 V	200 V	
Line current				
	115 V, 2 lamps	6 A	5.5 A	
	115V, 1 lamp	4 A	3.0 A	
	230 V, 2 lamps	3.2 A	2.7 A	
	230 V, 1 lamp	2.2 A	1.5 A	
Power				
	2 lamps	690 W	633 W	
	1 lamp	460 W	345 W	
Heat, BTUs per hour				
	2 lamps	2373	2167	
	1 lamp	1571	1178	

Optical

Specification	Maximum	Minimum	Typical	Notes
Image position	+ 1 pixel	-1 pixel	0 pixel	
Rotation	- ½ pixel	+ ½ pixel	0 pixel	
Pincushion/Barrel	-1 pixel	+ 1 pixel	0 pixel	
Keystoning	-1 pixel	+ 1 pixel	0 pixel	
Focus/Aberration				No objectionable defocusing or chromatic aberration at distance of 1.5 screen diagonals by a 20/20 vision viewer
Screen, High-Contrast				
Gain			1.7 ± 10%	Two-part screen composed of a front glass BlackScreen and a back Fresnel lens
Viewing cone, 2 gain, H & V	70° (±35°)			
Viewing cone, 5 gain, H & V	90° (±45°)			
Brightness, 2 lamps			50/55 ftL	UXL/XL
Brightness, 1 lamp			25/27.5 ftL	UXL/XL
Quality View Metric (QVM) ¹			6800	with two lamps on
QVM at 50° viewing angle			300	with two lamps on
Screen, Wide-View				
Gain			1.0 ± 10%	
Viewing angle, 2 gain, H & V	80°			80° (±40°)
Viewing angle, 5 gain, H & V	135°			135° (±67.5°)
Brightness, 2 lamps			30/32 ftL	UXL/XL
Brightness, 1 lamp			15/16 ftL	UXL/XL

Optical

Specification	Maximum	Minimum	Typical	Notes
Quality View Metric (QVM) ¹			2500	with two lamps on
QVM at 50° viewing angle			600	with two lamps on
Brightness uniformity, either screen			> 80%	ANSI 13-point standard
Contrast ratio			>1,500	Dark room
Resolution, Lion XL				1024 × 768 pixels
Resolution, Lion XL				1600 × 1200 pixels
Lamp life, hours 180W high pressure mercury			8000	Median (50% of lamps still operational after the specified median lamp life)

1. Clarity's Quality Viewing Metric (QVM) is a comprehensive measure of image quality. It combines the effects of brightness, contrast and ambient light to yield a more meaningful measurement for evaluating perceived image quality. See www.ClarityVisual.com for more information on QVM and image quality.

Environmental

Specification	Maximum	Minimum	Typical	Notes
Temperature operating				All performance specifications are maintained within this temperature range
glass screen	40° C, 95° F	0° C, 32° F		
acrylic screen	27° C, 80° F	15° C, 59° F		
non-operating	60° C, 140° F	-10° C, 14° F		
Altitude (barometric pressure)	10,000 ft 3050 m			Above sea level, or equivalent barometric pressure
Humidity	80% R.H.	20% R.H.		40° C non-condensing