

NEC LED Series

LED-06AF1 (Indoor) & LED-15BF1 (Outdoor)

Simple and easy tiling for an unlimited amount of configurations to meet the needs of applications required for both indoor and outdoor locations

IP65 protection rating on the LED-15BF1 ensures that outdoor elements do not become a factor

Auto video wall setup helps the installation move faster and easier, removing the hassle of predetermining the matrixing normally found in splitting the signal into its respective quadrant

Long-life Nichia LED lamp provides for one of the best total costs of ownership available for an LED video wall

Serviceable from the front or back makes for effortless repairs in the field

High image quality

- Color & brightness uniformity between modules enhances the video wall image using Nichia's LED
- 14-bit/16-bit color processing
- Dot-to-dot correction during production produces extremely high dot pitch accuracy
- Industry-leading contrast using black LED and improved shader (LED-06AF1), which reduces undesirable reflections

Unrivaled brightness eliminates concerns of the image being washed out from indoor lighting or sunlight



□ Video Processor

- Adaptive Deinterlacing - Multi-field, motion-adaptive deinterlacing (480i, 576i, 1035i 1080i) with dynamic edge-detection and directional-interpolation, robust film mode detection and processing
- Broadcast-quality color processing created with full 10-bit, 4:4:4 color processing for greater color precision and dynamic range, resulting in unparalleled images. Internal calculations with up to 24-bit precision.
- Frame Rate Conversion - Tearless frame rate conversion to/from any refresh rate, enabling the connection of any source to any display
- Image Enhancement Algorithm allows selectable noise reduction without significant loss of detail and detail enhancement to sharpen incoming images that, in their original form, are soft.
- Low Latency Processing - the lowest-latency image processing on the market at < 2 frames latency and < 1 frame when timing is locked

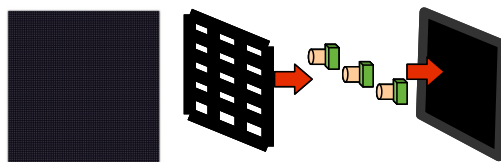
□ Control Software

- Auto mapping for pixel allocation places the incoming pixels to their corresponding LED pixels
- Auto locating ensures that each module receives the correct image quadrant
- Dimming controls within the control software determines the brightness of each module in the unlikely event the white balance is perfect

PIXEL CONFIGURATIONS

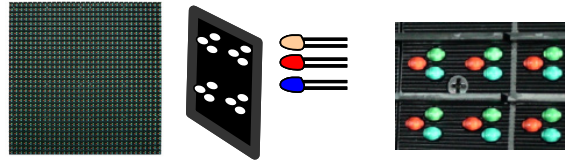
LED-06AF1

3-in-1 black SMD



LED-15BF1

1R/1G/1B Throw-Hole



Specifications for LED-06AF1/LED-15BF1

MODEL	LED-06AF1	LED-15BF1
Pixel Pitch	6.25mm	15.625mm
Number of Pixels	80 dot x 80 dot	32 dot x 32 dot
Pixel Configuration	3-in-1 black SMD	1R/1G/1B Through-Hole
Brightness	2000 cd/m ² ± 5% (6500K)	7500 cd/m ² ± 5% (6500K)
Contrast Ratio	3500:1	4500:1
Dimming Capability	64 Level	
Color Processing	14-bit	16-bit
Viewing Angle	Hor. ±75°, Vert. ±70° (1/2 brightness)	Hor. ±75°, Vert. +15°/-30° (1/2 brightness)
Refresh Rate	> 800 Hz	
Interface	DVI-D DualLink (For Video & Control)	
Power In/Out	In x 1, Out x 1	
Power Source	100 ~ 240V AC, 50/60Hz	
Power Consumption (Normal/Max)	235W (Full White)	135W (Full White)
Dimensions (WxHxD)	19.7 x 19.7 x 6.7 in. / 500 x 500 x 170mm	19.7 x 19.7 x 7.4 in. / 500 x 500 x 188mm
Weight	28 lbs. / 12.7 kg	30.9 lbs. / 14 kg
IP Level	Indoor Use Only	IP65
Lifetime	> 100,000 hrs. (until 1/2 brightness)	
Operating Temperature	-4 ~ 104°F / -20 ~ 40°C	-4 ~ 122°F / -20 ~ 50°C
Storage Temperature	-22 ~ 140°F / -30 ~ 60°C	
Operating Humidity	10 ~ 90%	
Storage Humidity	10 ~ 90%	
Regulations	UL 60950-1, CAN/CSA-C22.2 No.60950-1, FCC CFR Title 47 Part 15 Subpart B, Class A, EN61000-3-3, IEC 61000-4-8	
ACCESSORIES		
Included	User manual, DualLink DVI-D cable, power cable for daisy chain, AC cable	
Optional	Video distributor (LED-VD1), Video processor (LED-VP1), LED Wall Manager (LWM), LED Content Manager (LCM), LED Frame (LED-FM-FRAME)	
WARRANTY/SERVICE		
Limited Warranty	3 years, parts and labor	

VIDEO DISTRIBUTOR (LED-VD1)

	Spec	Remarks
Support VideoTiming	1024 x 768 @ 60Hz	with EDID
Video Input	DVI-D x 1 (w/ HDCP)	w/ HDCP 1024x768@60Hz
Video Out	DVI-D x 8	For LED Module (w/ RS-422 DualLink)
	DVI-D x 1	For Distributor cascade connection or Sub monitor
Control In	RJ45 (RS-485)	from PC/Server (Half-duplex 38400bps)
Control Out	RJ45 (RS-485)	for another Distributor cascade (Half-duplex 38400bps)
	DVI-D x 8 (RS-422)	for LED Module (DualLink)
Power Source	AC 100 ~ 240V, 50/60Hz	
Power Consumption	15W	
Dimension (WxDxH)	(Net)	18.9 x 12.8 x 3.9 in. / 479.2 x 325.1 x 98.2mm
	(Gross)	23 x 16.6 x 8 in. / 583 x 421 x 202mm
Weight	(Net)	10.1 lbs. / 4.6 kg
	(Gross)	14.8 lbs. / 6.7 kg
Temperature (Operation/Storage)	-20 ~ 40°C / -30 ~ 60°C	
Humidity (Operation/Storage)	10 ~ 90% / 10 ~ 90%	
Certification / Regulation	UL/C-UL, VCCI, FCC class A, Canadian DOC, CE, TUV-GS, RoHS (EU), US Mercury	

VIDEO PROCESSOR (LED-VP1)

	Spec	Remarks
Video Input	5RCA x 1	RGB or Component
	5BNC x 1	RGB or Component
	Mini D-SUB 15pin x 1	RGB or Component
	HDMI x 2	
	RCA x 1	Composite Video
	Mini DIN 4pin x 1	S-Video
Video Out	DVI-D x 1 (w/ HDCP)	for Video Distributor (1024x768@60Hz)
Control In	D-SUB 9pin (RS-232)	from PC/Server (19200bps)
User Interface	PWR/MENU/SELECT/INPUT/RATIO/ PATTERN	On Front Panel
Indicators	STAND-BY/ ISSUE/RUN	LED Lamp
Power Source	AC 100 ~ 240V, 50/60Hz	
Power Consumption	16W	
Dimension (WxDxH)	(Net)	18.9 x 13.4 x 3.7 in. / 480 x 340 x 94.1mm
	(Gross)	23 x 16.6 x 8 in. / 583 x 421 x 202mm
Weight	(Net)	7.1 lbs. / 3.2 kg
	(Gross)	11.7 lbs. / 5.3 kg
Temperature (Operation/Storage)	5 ~ 35°C / 0 ~ 50°C	
Humidity (Operation/Storage)	10 ~ 90% / 10 ~ 90%	
Certification / Regulation	UL/C-UL, VCCI, FCC class A, Canadian DOC, CE, TUV-GS RoHS(EU), US Mercury	