

LED Video Display Panels

By NookSchoenfeld


LED video display panels seem to change every year. Every 18 months, *PLSN* presents a Buyers Guide on video cabinets so our readers can keep up with what's out there. Since the last time we've covered this category (*PLSN*, June 2017, page 62), just about every company has updated their product lines. I've seen quite a few of them offering weatherproofed outdoor models. But very few manufacturers are coming up with tiles that were designed to withstand the rigors of the road. If I was in the business of LED rental, I would certainly look for sealed, waterproof, protected tiles — the kind that don't break when a stagehand drops them.

ADJ AV2

Pixel Pitch: 2.97mm	Panel Dimensions: 19.75 x 19.75 x 3", 500 x 500 x 73mm	
Pixel Matrix: 168 x 168	Panel Weight: 17.64 lbs.	
Aspect Ratio: 168 x 168	IP Rating: IP20	
LED Type: 3-in-1 SMD 2121 LED	Certification: CE	
Viewable Angle: 160/120°	Curvability: No	
Brightness: 1000 NITs	Frames Hold Multiple Tiles: Yes	
Display Link: Ethercon	Touring Carts Hold Multiple Frames: Yes	
Power Link: powerCON	Details: Other models also in the AV Series: AV3, AV4IP and AV6X.	
Wattage Per Tile: 115W Max		
Max # Tiles Linked: N/A		
Cabinet Material: Plastic and metal		


adj.com/av2

Blizzard IRIS R2

Pixel Pitch: 2.9mm	Panel Dimensions: 500 x 500 x 100mm	
Pixel Matrix: 168 x 168	IP Rating: Front/Rear IP40/IP21	
Aspect Ratio: 1:01	Certification: cETLus, FCC, CE, RoHS	
LED Type: Blackface SMD 2020	Curvability: 10° concave, 5° convex	
Viewable Angle: 150/140° (H/V)	Frames Hold Multiple Tiles: Yes	
Brightness: 1200 NITs	Touring Carts Hold Multiple Frames: No	
Display Link: Neutrik etherCON in/out	Details: Also available: IRIS IP3 - IP65 Rated Outdoor (3.9mm), 3840Hz refresh rate IRIS R3G2 - (3.9mm), 1920Hz refresh rate IRIS InSite 2.5mm and 3.8mm for permanent install.	
Power Link: Neutrik powerCON in/out		
Wattage Per Tile: (Max/Avg) 127.5/42.5W		
Max # Tiles Linked: N/A		
Cabinet Material: CNC + cast aluminum		
Panel Weight: 19.4 lbs.		


blizzardpro.com

Coleder EDGE

Pixel Pitch: 1.96mm	Panel Dimensions: 471.1 x 530 x 80mm	
Pixel Matrix: 240 x 270	IP Rating: IP40	
Aspect Ratio: 8:09	Certification: CE-TUV, ETL, RoHS, FCC, CCC	
LED Type: SMD 3-in-1	Curvability: Concave/convex	
Viewable Angle: 160/140° (H/V)	Frames Hold Multiple Tiles: Yes	
Brightness: 1000 NITs	Touring Carts Hold Multiple Frames: Yes	
Display Link: Cable free or cable	Details: Automatic all-round edge protection; cable/cable-free auto-switching; solid curve lock for concave & convex; natural 8:9 aspect ratio.	
Power Link: Cable free or cable		
Wattage Per Tile: 60W (Avg.)		
Max # Tiles Linked: 16 panels		
Cabinet Material: Die-cast aluminum + magnesium alloy		
Panel Weight: 8.5 kg		

coleder.com

Absen Polaris 2.5 Pro

Pixel Pitch: 2.5 mm	Panel Dimensions: 500 x 500 x 87mm	
Pixel Matrix: 200 x 200	IP Rating: IP40/IP21 (front/rear)	
LED Type: Black SMD 1515	Certification: N/A	
Viewable Angle: 140°	Curvability: Concave/convex	
Brightness: 1200 NITs	Frames Hold Multiple Tiles: N/A	
Display Link: N/A	Touring Carts Hold Multiple Frames: No	
Power Link: N/A	Details: Advanced auto lock and auto eject system, inner/outer curve lock.	
Wattage Per Tile: 540 to 180W		
Max # Tiles Linked: 20		
Cabinet Material: Die-cast aluminum		
Panel Weight: 21.2 lbs.		


usabsen.com

Barco X2.8R

Pixel Pitch: 2.85mm	Cabinet Material: Carbon fiber	
Pixel Matrix: 168 x 168 pixels	Panel Dimensions: 480 x 480mm, 18.9 x 18.9"	
Aspect Ratio: 1:01	IP Rating: IP30	
LED Type: SMD RGB Black	Certification: CE, UL, FCC, RoHS, WEEE, REACH	
Viewable Angle: 160°	Curvability: Convex and concave	
Brightness: 1200 NITs	Frames Hold Multiple Tiles: No	
Display Link: Barco Infinipix/Neutrik etherCON (male/female)	Touring Carts Hold Multiple Frames: No	
Power Link: Neutrik powerCON TRUE1 (male/female)	Details: Designed for image quality, to be lightweight, and to install quickly for live events.	
Wattage Per Tile: 128W max/59W avg		
Max # Tiles Linked: 10 at 120V; 14 at 230V		
Panel Weight: 7kg / 15.4 lbs.		

barco.com

Chauvet F3

Pixel Pitch: 3.9	Panel Dimensions: 9.69 x 3.5 x 39.37 in (500 x 89 x 1000 mm)	
Pixel Matrix: 128 x 256	IP Rating: 31	
Aspect Ratio: 8:16	Certification: CE, MET	
LED Type: Tri color SMD 2121 LEDs	Curvability: No	
Viewable Angle: 140°	Frames Hold Multiple Tiles: No	
Brightness: 1500 NITs	Touring Carts Hold Multiple Frames: No	
Display Link: Seetronic EtherKON	Details: F3 runs on the NovaStar control protocol and is fully front & rear serviceable. F3 features powerful magnets in the frame to help hang the panels.	
Power Link: Seetronic powerKON		
Wattage Per Tile: 263W @120V		
Max # Tiles Linked: 8 panels @120V		
Cabinet Material: Magnesium die-cast		
Panel Weight: 28.6 lbs.		


chauvetprofessional.com

CreateLED TV-46 1.6mm

Pixel Pitch: 1.6mm	Panel Weight: 39 lbs.	
Pixel Matrix: 230 x 400 pixels	IP Rating: IP30	
Aspect Ratio: 16:09	Certification: CE, RoHS, EMC Class A, FCC, ETL	
LED Type: SMD	Curvability: None	
Viewable Angle: 160/140° (H/V)	Frames Hold Multiple Tiles: Yes	
Brightness: 800 NITs	Touring Carts Hold Multiple Frames: Yes	
Display Link: Wire to wire	Details: The 16:9 native ratio helps the product achieve 2K/4K/8K. User-friendly installation & maintenance. Precise panel alignment. Ultra-slim, light.	
Power Link: Wire to wire		
Wattage Per Tile: 150/90 Max/Avg.		
Max # Tiles Linked: N/A		
Cabinet Material: AL5052		
Panel Dimensions: 1024 x 576 x 36mm		


createled.com

Desay X Series

Pixel Pitch: 2.6	Panel Weight: 20 lbs.	
Pixel Matrix: 192 x 192	IP Rating: IP30	
Aspect Ratio: 1:01	Certification: cETLus, FCC, CE - EMC TUV	
LED Type: SMD 1515 Blackface	Curvability: Concave/convex	
Viewable Angle: 140/120° (H/V)	Frames Hold Multiple Tiles: No	
Brightness: 1500 NITs	Touring Carts Hold Multiple Frames: No	
Display Link: Neutrik	Details: 3.1/3.9/4.4/5.2mm, Outdoor 1.9/2.6/2.9/3.9mm; Indoor: Flat or up to 10° concave & convex; Optional 90° corner panel, modular design, rugged cabinet, integrated ladder, hot swap power box.	
Power Link: Neutrik		
Wattage Per Tile: 155/54W Max/Avg		
Max # Tiles Linked: 8		
Cabinet Material: Die-cast aluminum		
Panel Dimensions: 19.69 x 19.69"		


desayopto.com

Elation EVHD

Pixel Pitch: 2.6, 3.9, 5.9mm	Cabinet Material: Die-cast aluminum frame	
Pixel Matrix: 192 x 192, 128 x 128, 84 x 84	Panel Dimensions: 19.7 x 19.7"	
Aspect Ratio: 1:01	Panel Weight: 18.7 lbs.	
LED Type: SMD 2121 RGB LEDs (SMD 1515 for EVHD 2.6)	IP Rating: IP20	
Viewable Angle: 140/120° (H/V)	Certification: CE, cETLus	
Brightness: 1200 NITs	Curvability: Concave/convex	
Display Link: Neutrik EtherCon (standard Cat5e with Canon Connector)	Frames Hold Multiple Tiles: No	
Power Link: Neutrik PowerCon	Touring Carts Hold Multiple Frames: No	
Wattage Per Tile: 165, 125, 120W	Details: Modular front maintenance construction means the panels can be mounted inches off a wall. Accessibility from back and front helps with installation and service.	
Max # Tiles Linked: Varies (11-26)		


elationlighting.com

Gtek InnoPad

Pixel Pitch: 1.9mm	Panel Dimensions: 19.69 x 19.69 x 2.76"	
Pixel Matrix: 262 x 144	Panel Weight: 15.4 lbs.	
Aspect Ratio: 1:01	IP Rating: IP30	
LED Type: Rental LED Display	Certification: CE	
Viewable Angle: 150°	Curvability: Concave/convex	
Brightness: 800 NITs	Frames Hold Multiple Tiles: Yes	
Display Link: Neutrik Connector	Touring Carts Hold Multiple Frames: Yes	
Power Link: Neutrik Connector	Details: Made with carbon fiber material for lightness and strength. InnoPad C1.9 panels can be configured at 22.5 to 90° angles.	
Wattage Per Tile: 220W		
Max # Tiles Linked: 16 tiles/220V; 8 tiles/110V		
Cabinet Material: Carbon fiber		


gtek.aoto.com

Leyard and Planar VVR Series

Pixel Pitch: 2.5 to 10.4mm	Panel Dimensions: 500 x 500 x 74mm	
Pixel Matrix: Varies by pixel pitch	IP Rating: IP65 (outdoor)	
Aspect Ratio: 1:01		
LED Type: Indoor/outdoor		
Viewable Angle: 120/110° (H/V)		
Brightness: 1000/5000 NITs (indoor/outdoor)		
Display Link: Cat6; HDMI or DVI.		
Power Link: Standard AC power		
Wattage Per Tile: 188W		
Max # Tiles Linked: N/A		
Cabinet Material: Magnesium alloy		
Panel Dimensions: 500 x 500 x 74mm		
IP Rating: IP65 (outdoor)		
Certification: FCC Class A, CE EN60950-1, EN 55032 Class A and EN55024, WEEE		
Curvability: Concave		
Frames w/ Multiple Tiles: Yes		
Touring Carts Hold Multiple Frames: No		
Details: Magnetically attachable cabinets for fast assembly, with a quick lock system for single-person installation.		

leyard.com/vvr

Dicolor MA-480

Pixel Pitch: 4.81	Panel Dimensions: 500 x 500/500 x 1000	
Pixel Matrix: 104 x 208	Panel Weight: 9/13.5 kg	
Aspect Ratio: 1:1 / 1:2	IP Rating: IP65/IP54	
LED Type: SMD1820 (black)		
Viewable Angle: 140/140°		
Brightness: 4300 NITs		
Display Link: DVI/HDMI/VGA		
Power Link: Connector		
Wattage Per Tile: 800W/m		
Max # Tiles Linked: 10m		
Cabinet Material: Die-cast cabinet		
Certification: CE/FCC/ETL		
Curvability: Concave/convex have		
Frames Hold Multiple Tiles: Yes		
Touring Carts Hold Multiple Frames: Yes		
Details: Outdoor rental display w/modular design. Full front and back access for maintenance, easy installation. Curvable. Anti-bump design for cabinets and PCB welding plate. Mixed splicing of cabinets.		

dicolor.cn

Gloshine MV Series

Pixel Pitch: 2.97mm	Panel Weight: 8.3 KG	
Pixel Matrix: 168 x 168	IP Rating: IP30	
Aspect Ratio: 1:01	Certification: CB, CE, FCC	
LED Type: full black SMD2020	Curvability: Concave/convex (±6°)	
Viewable Angle: 160/140° (H/V)	Frames Hold Multiple Tiles: Yes	
Brightness: 1000-1500 NITs	Touring Carts Hold Multiple Frames: No	
Display Link: Neutrik	Details: Front and back serviceable, interchangeable module, screw-less mask, foldable module handle, 3840 Hz refresh rate.	
Power Link: Neutrik		
Wattage Per Tile: 325W (Avg.)		
Max # Tiles Linked: 20 tiles max on height		
Cabinet Material: Die-cast aluminum		
Panel Dimensions: 500 x 500 x 78mm		

gloshine.com

INFILED Deep Black DB Series

Pixel Pitch: 2.6mm	Panel Weight: 19 lbs.	
Pixel Matrix: 192x192	IP Rating: IP 30	
Aspect Ratio: 1:01	Certification: CE, ETL, FCC, FoHS	
LED Type: SMD1515	Curvability: Concave and convex	
Viewable Angle: 160/160° (H/V)	Frames Hold Multiple Tiles: No	
Brightness: 1200 NITs	Touring Carts Hold Multiple Frames: No	
Display Link: Neutrik	Details: Deep black design for ultimate image quality.	
Power Link: Neutrik		
Wattage Per Tile: 150W		
Max # Tiles Linked: 12/row		
Cabinet Material: Die-cast aluminum		
Panel Dimensions: 500 x 500mm		

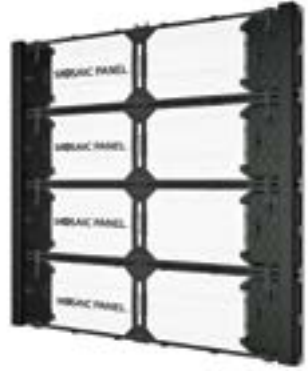
infiled.com

LianTronics RE Series

Pixel Pitch: 2.6/3.9mm	Panel Dimensions: 500 x 500 x 88mm	
Pixel Matrix: 147 x 456	Panel Weight: 8 lbs.	
Aspect Ratio: 1:01	IP Rating: IP30	
LED Type: LED Display for Rental	Certification: CE, RoHS, FCC	
Viewable Angle: 160/160° (H/V)	Curvability: Concave/convex	
Brightness: 1000 NITs	Frames Hold Multiple Tiles: Yes	
Display Link: Aviation plug cable	Touring Carts Hold Multiple Frames: Yes	
Power Link: Aviation plug power cable	Details: Fine-pitch, curvable (+10°, -10°) screen for rental use. Front and rear accessible. Support for mismatch splicing from all directions.	
Wattage Per Tile: 118W		
Max # Tiles Linked: N/A		
Cabinet Material: Die-cast aluminum		


liantronics.com

MEGA View Mosaic Panel

<p>Pixel Pitch: 2.5mm Pixel Matrix: 57 x 600 Aspect Ratio: 480 x 120 LED Type: SMD 2020 3-in-1 Blackface Viewable Angle: 140.25/140.25° Brightness: 1100 NITs Display Link: Ethernet Power Link: IEC Wattage Per Tile: 189W Max # Tiles Linked: N/A Cabinet Material: Die cast aluminum Panel Dimensions: 47 x 11.8 x 2.3"</p>	<p>Panel Weight: 23.1 lbs. IP Rating: IP40 Certification: ETC Curvability: None Frames Hold Multiple Tiles: No Touring Carts Hold Multiple Frames: No Details: Front-and-back accessibility lets the Mosaic panels be mounted directly on the wall. Removing the modules gives users access to all mounting positions.</p>	
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mega.lighting

PixelFLEX FLEXTour

<p>Pixel Pitch: 2.8 Pixel Matrix: 172 x 172 Aspect Ratio: 4:03 LED Type: Nationstar SMD2121 Black Face Viewable Angle: 140° (H/V) Brightness: 1200 NITs Display Link: Ethercon Power Link: Neutrik TrueOne Wattage Per Tile: 240W Avg Max # Tiles Linked: 20 w/o touring frame Cabinet Material: Cast aluminum Panel Dimensions: 500 x 500mm Panel Weight: 21 lbs. Certification: FCC, CE, ETL, UL</p>	<p>IP Rating: IP30/IP65 (Front/Rear) Curvability: 5° convex, 15° concave Frames Hold Multiple Tiles: Yes Touring Carts Hold Multiple Frames: Yes Details: Robust, curvable LED video display designed for touring. Modular in design with unique rigging capabilities for traditional and offset designs. Front serviceable with magnetic modules for easy on site maintenance. Integrated climbing ladder gives techs quick access.</p>	
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pixelflexled.com

Reel Video Systems Carbon 5

<p>Pixel Pitch: 5.769 Pixel Matrix: 30,044/square meter Aspect Ratio: 0.5 LED Type: White SMD 3-in-1 Viewable Angle: 140° Brightness: 6000 NITs Display Link: Ethercon Power Link: True 1 Wattage Per Tile: 500W Max # Tiles Linked: 640 tiles per home run Cabinet Material: Magnesium alloy Panel Dimensions: 600 x 1200mm</p>	<p>Panel Weight: 55 lbs. IP Rating: 65 Certification: Brompton Curvability: Convex and concave Frames Hold Multiple Tiles: No Touring Carts Hold Multiple Frames: Yes Details: Carbon 5 is an indoor/outdoor product. Reel Video Systems is one of the first companies to roll out ROE's lightweight (55 lbs. total) Air Frame system.</p>	
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reelvideosystems.com

ROE Visual Diamond 2.6

<p>Pixel Pitch: 2.604 mm Pixel Matrix: 192x192 Aspect Ratio: 1:01 LED Type: Black SMD 1515 Viewable Angle: 140° Brightness: 1500 NITs Display Link: RJ45 Power Link: 220V AC Wattage Per Tile: 180W Max # Tiles Linked: N/A Cabinet Material: Magnesium Panel Dimensions: 500 x 500 Panel Weight: 12 lbs.</p>	<p>IP Rating: IP 40 Certification: ETL, ACE Curvability: Concave/convex Frames Hold Multiple Tiles: Yes Touring Carts Hold Multiple Frames: Yes Details: The lightweight Diamond 2.6 (DM2.6) small-pitch LED panel incorporates magnesium alloy frame design for an easy-to-stack or hang solution.</p>	
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roevisual.com

Unilumin Unano1.8

<p>Pixel Pitch: 1.8mm Pixel Matrix: 240 x 270 Aspect Ratio: 8:09 LED Type: 3-in-1 SMD Viewable Angle: 160/160° (H/V) Brightness: 800 NITs Display Link: Neutrik Power Link: Neutrik Wattage Per Tile: 150/50W (230VAC) Max # Tiles Linked: 20 Cabinet Material: Magnesium Panel Dimensions: 17.43 x 19.61 x 2.44"</p>	<p>Panel Weight: 15.4 lbs. IP Rating: IP50 Certification: TUV-CE, UL, FCC, CB, RoHS Curvability: Concave (0° to +6°) Frames Hold Multiple Tiles: Yes Touring Carts Hold Multiple Frames: Yes Details: Fine pitch rental LED display; PPM (popping-up protection mechanism); HDR processing technology</p>	
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unilumin.com

Vanguard Tungsten

<p>Pixel Pitch: P2.5 Pixel Matrix: 200 x 200 Aspect Ratio: 1:01 LED Type: SMD with VCOB Viewable Angle: 160° Brightness: 800 NITs Display Link: Ethercon Power Link: Powercon Wattage Per Tile: 200W (max) Max # Tiles Linked: 20 (per 208V circuit) Cabinet Material: Die cast aluminum Panel Dimensions: 500 x 500mm</p>	<p>Panel Weight: 18 lbs. IP Rating: Indoor-rated Certification: MET Curvability: Concave/convex Frames Hold Multiple Tiles: Yes Touring Carts Hold Multiple Frames: Yes Details: Vanguard's new Tungsten cabinet includes chip on board, lamp protection, full front access and aluminum protected corners standard. (See page 85, this issue).</p>	
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vanguardleddisplays.com

Yes Tech MG7S P3.9

<p>Pixel Pitch: 3.9mm Pixel Matrix: 128 x 128 Aspect Ratio: 1:01 LED Type: 1516 black Viewable Angle: 160/120° Brightness: 4000-4500 NITs Display Link: N/A Power Link: N/A Wattage Per Tile: 210/70W Max # Tiles Linked: N/A Cabinet Material: High polymer nano-materials Panel Dimensions: 500 x 500 x 73mm Panel Weight: 6.5 kg</p>		<p>IP Rating: IP65/IP54 (front/rear) Certification: CE, FCC, ETL, CCC Curvability: Concave and Convex Frames Hold Multiple Tiles: Yes Touring Carts Hold Multiple Frames: Yes Details: New designs, new appearance, for indoor and outdoor use.</p>
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yes-led.com

Coming Next Month

Road Cases

