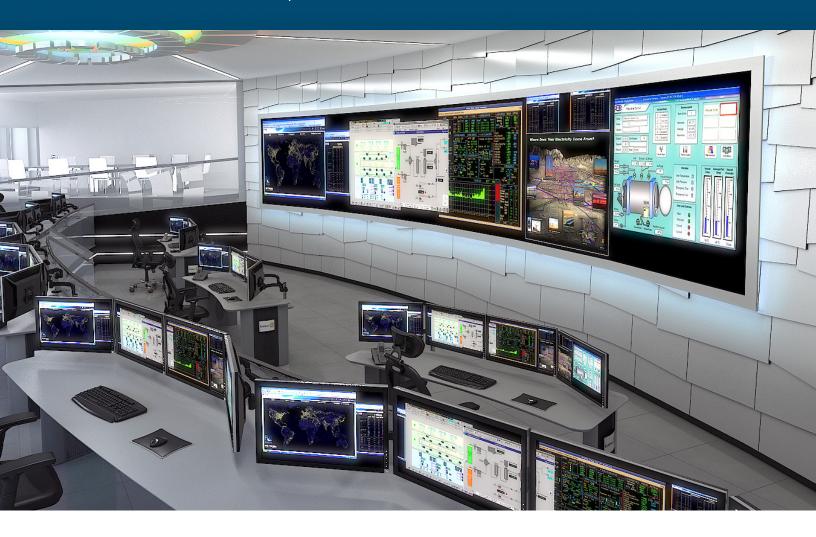


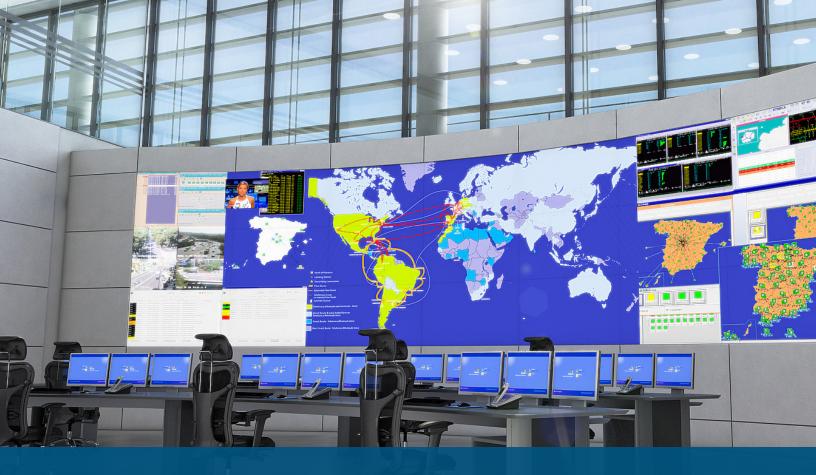
### Clarity LED3 Series REAR PROJECTION VIDEO WALL



### Long Life. Brilliant Color. Compatible and Easy.

Planar's Clarity™ LED3 Series is a complete line of LED-illuminated rear projection video wall displays that deliver superb image quality, industry-leading power-efficient performance, reliable long life, and ease of operation. Designed to fully exploit the latest generation LEDs, DLP systems, optics, image electronics, and quality screens, Clarity LED3 Series displays maintain a stable and maintenance-free image for many years.

With crisp, clear images, Clarity LED3 Series displays deliver outstanding brightness of up to 800+ nits, illumination life up to 100,000 hours, and high display reliability. Planar's proprietary SiFi3™ technology ensures every Clarity LED3 Series display in the video wall operates at a user-defined power or brightness level over the lifetime of the video wall, and in concert with the other displays in the wall. The rugged Clarity LED3 Series is engineered for easy set up and commissioning and quiet, worry-free operation and low cost-of-ownership.



### Reliable Displays Built for the Long Run

Control room video walls are often intended to operate around the clock for years and Planar has designed a display especially for the most demanding mission-critical environments

### **High Quality DLP Imaging**

Planar employs the latest TI Digital MicroMirror Devices in our displays. These worry-free semiconductor-based imaging chips last well beyond 100,000 hours of continuous use.

#### Redundant LED Illumination

We illuminate the DLP chip with highly-efficient and cooler-running red, green and blue LED light sources. Individual colors are driven by a separate LED driver circuit. And on each color die are 6 in-parallel LEDs ensuring another layer of redundancy and color stability over time.

#### **Long Illumination Lifetime**

Illumination systems are the most important element of rear projection displays. Clarity LED3 Series provides industry-leading illumination lifetime up to 100,000 hours in Eco mode. 60,000 hours of operation in normal, full power mode.

### Single, All-in-one Chassis

Instead of assemble-at-the-site kits, Planar employs one single uni-body chassis that fully surrounds and protects the displays' inter-workings. It has the strength to hold up to eight rows high and interconnects to adjacent display cubes with precision. Cable runs are designed not to hinder or interfere with the display's operation. It has all the needed accurate mounting points for a permanent set up with bases and screens, maintaining the screen's important flatness. Inside each component bolts to the chassis for vibration-free operation.

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## Superior Quality by Design

### Compatible Base Structures Maintain Stability

Clarity LED3 Series includes a full set of bases custom designed to fit properly and keep the video wall flat and stable on the floor. Added structure is available for high video walls. Video wall processing equipment is mounted in the bases for nearby and cool operation. Planar provides the highly-machined bracketry to permanently install the wall.

### Modular Design Keeps Temperatures Down

Excessive heat has a negative effect on electronic components. Clarity LED3 Series displays are designed so all internal components are separated on the chassis. This lowers the ambient heat, which ensures consistent, reliable and long-lasting video wall performance so you can be concerned about what's on the video wall and not what's inside.



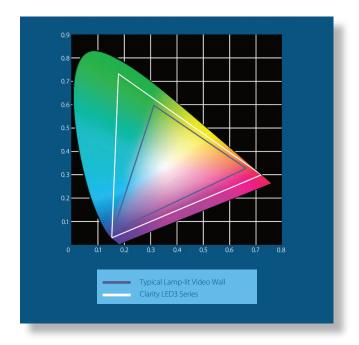
### **Built for Different Environments**

Our multi-layer screens are pre-acclimatized so they remain stable for years. The chassis is all aluminum and properly coated so no oxidation will affect the inter-workings. All components are shielded from one another. Our positive-pressure display also keep all the dust out of the chassis for clear and clean imagery.

### Brilliant, Colorful Images

#### **Precise Professional Optics**

Planar uses only the best commercial glass in making its optical lens stacks for the internal projectors. Made for 24 hours of continuous use, these lenses provide stunningly sharp and uniform imagery across the screen.



#### **Broad Color Gamut LEDs**

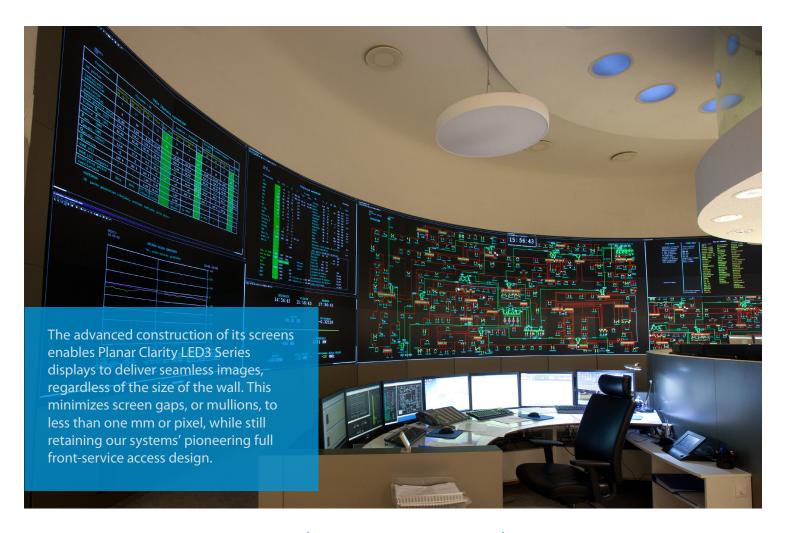
Clarity LED3 Series displays have bright, wide color gamut LEDs tuned for luminance and chromicity, provide a stunning colorful array of light to the screen. The LEDs are perceived by the human eye to be brighter than what is measured. These LEDs create very dark blacks and great contrast between colors. Multiple colors are projected simultaneously. Secondary colors are employed (cyan, yellow, and magenta) to improve the perceived color range, displaying 16 million colors at 10 bits deep.

### Large, Full-size DLP Chips

DLP semiconductor technology provides superior contrast, clear and sharp pixel definition, color consistency, and accurate reprensentation of the content. This eliminates blur, burn in, dark spots, aging and other image challenges.

### Planar Natural Color Improves Visualization

To counter some of the common issues with overly saturated LED colors, Planar employs a unique proprietary color space tuning technique, called Planar Natural Color, that intelligently maps a broader color palette to content, producing saturated and life-like colors.



### Seeing more with near-seamless screens

### Precision Screen Design Ensures Clear and Sharp Images

Clarity LED3 Series screens are multilayered for strength and functionality, with the tightest tolerances for fit, flatness and viewing. The fresnel is optically accurate, consistent and sourced from the best materials makers, as is the outer screen itself. Both are designed for clear and clean use over 10 years without aging, coloring or flexing. Both are assembled into the metal frame without staples, stitches, clamps or other visible items that would block the image. The screens are designed to be no more than .1mm apart when fixed to the cube chassis, or .7mm apart if you select front-removable screens, making the gaps between the screens almost invisible.

### Choices of Screens Improves Perception

The Clarity LED3 Series screens come in two choices: a standard angle view screen offering a bright image and a wide view screen offering a slightly less bright image but more consistent image across a wide viewing angle. The first is best for modest walls or curved walls, the second for larger and more flat walls. Clarity LED3 Series video walls can be designed with a concave curve, or facets, to improve the ergonomic visibility of the content to a room of users. Arcs of these curves can be as large as 25°.

### Wide Choice of Distinct Resolutions

Clarity LED3 Series displays come in three basic resolutions and two different aspect ratios to serve any application or budget. Screen diagonals range from 50 to 80 inches. Pixel pitches vary from as microscopic as .13mm between pixels to infinitesimal at .06mm between each pixel. These minuscule sizes provide and enormously detailed image for any application.

### Designed for easy operation



### Assurance at Your Site Starts With Full Testing at our Factory

Planar builds each Clarity LED Series display to order. Each video wall is configured with all the needed components for quick assembly at the site.

### Worry-free Operation

Clarity LED3 Series displays have all the needed cable runs, cable connections, rack options for video wall-based processing needs and bases in many height choices that are accurate to-the-fraction-of-a-millimeter connection brackets.

### Time-Saving Advanced Motorized Optical Alignment

With the ease of using a remote, a single technician can quickly and easily align the optics on the video wall. The optics on the video wall can be easily adjusted later if needed without the need for manual set screws.

### **Display Profiles**

By utilizing advanced color management techniques and our extensive experience with different video wall applications, Planar created Clarity Display Profiles. These preset and customizable color spaces have been optimized for a range of specific video wall applications, harnessing the power of the LED illumination and producing a better visual experience for leading video wall applications, Including:

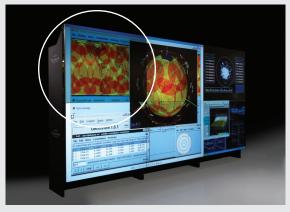
- Control Room
- · Low Ambient Light
- Security



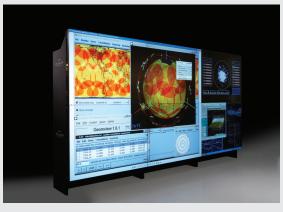
### Set it and Forget it Automatic Color Balance

A key feature a display's visual optimization is its capacity to achieve consistent color and brightness across displays in a video wall. A video wall lacking this capability is likely to offer a compromised image quality, potentially drawing attention to a mismatch between

the displays rather than attention to the content on the displays. Planar's Set it and Forget it (SiFi3™) technology allows operators to realize superior brightness and color balance at the touch of a button. A proprietary algorithm calculates the optimal color and brightness across the video wall and adjusts each display accordingly. SiFi3 completes this process - measuring, calculating and balancing - in about one minute, saving time, especially for larger video walls. SiFi ensures every Clarity LED3 Series display in the video wall operates at a user-defined power or brightness level over the lifetime of the video wall, and in concert with the other displays in the wall.



Unbalanced video wall



Balanced video wall with SIFI technology

### Displays Configured for Your Environment

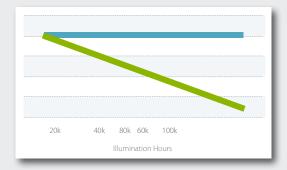


For video wall environments with critical power or ambient light requirements, the Clarity LED3
Series with SiFi3 technology and Planar WallNet can easily adapt to these challenging environments.
The Clarity LED3 Series is fully configurable to operate the video wall at either a fixed power level or a fixed brightness over its lifetime.

### **Fixed Power Operation**

When video wall power distribution is limited, a Clarity LED3 Series video wall can be set to an operator-defined, constant power level. Over time, LED illumination diminishes but, by defining lower power levels, it extends the life of the illumination module- up to 100,000 hours running at a continuous power level.

#### **FIXED POWER OPERATION**



- Operates at a fixed power level over LED lifetime
- Brightness decreases over time
- Illumination lifetime of up to 100,000 hours



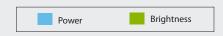
### Fixed Brightness Operation

The Clarity LED3 Series is an ideal solution for video wall operators requiring a constant, fixed brightness level. Once the brightness level is set, SiFi3 and Planar® WallNet™ software self-regulates and maintains that specific brightness level at the most power-efficient setting. power level.

#### **FIXED BRIGHTNESS OPERATION**



- Adjusts power to drive a consistent brightness
- Brightness stays constant over LED lifetime
- Illumination lifetime of 100,000 hours in eco mode



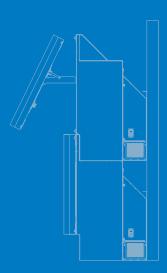
## EASE OF INSTALLATION & SERVICEABILITY



Planar Clarity LED3 Series displays are designed for easy installation and service. In new or retrofit situations, Clarity LED3 Series displays can be set-up in hours, rather than the days required for most other systems.



Each Clarity LED3 Series display is front and rear accessible, eliminating the need to select a specific display model.



Front access allows for full service with zero rear clearance.

#### Quiet and Cool Operation

With our high efficient LEDs, separated components and low power operation, less fan cooling is needed, making displays quieter than ever before. With less power use and power waste, the video wall stays cool and so do the operators.

#### **Network Control**

Planar WallNet and or Indisys™ Processing allows operators to use a web-based interface to monitor and control Planar displays—and it can automatically send email alerts if a problem is detected. Configuration is simple and gives users easy access to multiple display status views, network features and video wall administration tools. Plus, software updates are available with the click of a mouse.

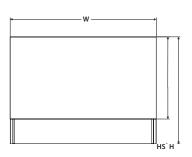
### **Designed for Easy Maintenance**

Easy-to-read diagnostic lights and screens on the main input electronics boards give early and specific notice of any impeding issues. Planar Wallnet and Indisys Processing can do the same over the network. Planar introduced both rear and front service displays to allow easy and comfortable access for maintenance from the front of the wall or the rear. With a modular design, all internal components are easy to reach, adjust or replace, in the rare case this is needed. The one consumable part in these modern displays is the air filter, which can be changed from outside the display.

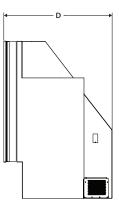
### Multiple Processing Choices Adapt Each Video Wall to Your Needs

Planar provides a full range of image processing solutions that set the industry standard for performance, power and versatility - whether you want to broadcast a single image across multiple screens, a single image across a single display or display several different feeds within a single display. From Planar's robust Indisys Extensity Image Processing for larger, more demanding applications to the easy-to-use Clarity VCS Video Wall Processor for medium-size systems, Planar provides a choice of world-class content management solutions to best fit your application needs and requirements.

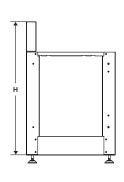
### Front











CLARITY LED3 SERIES SPECIFICATIONS							
Model	c50HD-LED3	c70HD-LED3	c50RP-LED3	c67RP-LED3	c80RP-LED3	c50RX-LED3	c67RX-LED3
Diagonal	50"	70"	50"	67"	78"	50"	67"
Resolution	Full HD 1920 x 1080	Full HD 1920 x 1080	SXGA+ 1400 x 1050	SXGA+ 1400 x 1050	SXGA+ 1400 x 1050	XGA 1024 x 768	XGA 1024 x 768
Engine Output	1150 lumens	1150 lumens	1200 lumens	1200 lumens	1200 lumens	900 lumens	900 lumens
PrecisionView - 2 (PV2 Brightness - cd/m2 Viewing Angle (1/2 gain) Viewing Angle 1/5 gain Viewing Angle 1/10 gain	Gain: 1.7 Opt: 840; Typ: 765; Eco: 520 H = 37°; V= 32° H = 51°; V= 48° H = 60°; V= 58°	Gain: 1.7 Opt: 430; Typ: 390; Eco: 265 H = 37°; V= 32° H = 51°; V= 48° H = 60°; V= 58°	Gain: 1.7 Opt: 775; Typ: 710; Eco: 480 H = 37°; V= 32° H = 51°; V= 48° H = 60°; V= 58°	Gain: 1.7 Opt: 435; Typ: 395; Eco: 265 H = 37°; V= 32° H = 51°; V= 48° H = 60°; V= 58°	Gain: 1.7 Opt: 285; Typ: 260; Eco: 175 H = 37°; V= 32° H = 51°; V= 48° H = 60°; V= 58°	Gain: 1.7 Opt: 580; Typ: 535; Eco: 360 H = 37°; V= 32° H = 51°; V= 48° H = 60°; V= 58°	Gain: 1.7 Opt: 325; Typ: 300; Eco: 200 H = 37°; V= 32° H = 51°; V= 48° H = 60°; V= 58°
PrecisionView - 1(PV1) Brightness - cd/m2 Viewing Angle (1/2 gain) Viewing Angle 1/5 gain Viewing Angle 1/10 gain	Gain: 1.0 Opt: 454, Typ: 408, Eco: 280 H= 34°, V= 38° H= 62°, V= 60° H= 76°, V= 78°	Gain: 1.0 Opt: 232, Typ: 211, Eco: 143 H= 34°, V= 38° H= 62°, V= 60° H= 76°, V= 78°	Gain: 1.0 Opt: 419, Typ: 383, Eco: 259 H= 34°, V= 38° H= 62°, V= 60° H= 76°, V= 78°	Gain: 1.0 Opt: 235, Typ: 213, Eco: 143 H= 34°, V= 38° H= 62°, V= 60° H= 76°, V= 78°	Gain: 1.0 Opt: 154, Typ: 140, Eco: 95 H= 34°, V= 38° H= 62°, V= 60° H= 76°, V= 78°	Gain: 1.0 Opt: 313, Typ: 289, Eco: 194 H= 34°, V= 38° H= 62°, V= 60° H= 76°, V= 78°	Gain: 1.0 Opt: 108, Typ: 162, Ecc: 108 H= 34°, V= 38° H= 62°, V= 60° H= 76°, V= 78°
Performance Efficiency (nits/watt)	Opt: 3.11; Typ: 3.40 Eco: 3.47	Opt: 1.59; Typ: 1.73 Eco: 1.77	Opt: 2.87; Typ: 3.16 Eco: 3.20	Opt: 1.61; Typ: 1.76 Eco: 1.77	Opt: 1.06; Typ: 1.16 Eco: 1.17	Opt: 2.15; Typ: 2.38 Eco: 2.40	Opt: 1.20; Typ: 1.33 Eco: 1.33
Contrast Ratio* Contrast Ratio - Dy- namic **	1650:1 20,000:1	1650:1 20,000:1	1750:1 20,000:1	1750:1 20,000:1	1750:1 20,000:1	1200:1 15,000:1	1200:1 15,000:1
Screen Dimensions Width (W) Height (HS)	43.6" (110.8 cm) 24.5" (62.3 cm)	61" (154.9 cm) 34.3" (87.0 cm)	40" (101.6 cm) 30" (76.2 cm)	53.5" (135.9 cm) 40.2" (102 cm)	62.5" (158.8 cm) 46.9" (119.1 cm)	40" (101.6 cm) 30" (76.2 cm)	53.5" (135.9 cm) 40.2" (102 cm)
Cabinet Dimensions Width (W) Height (H) Depth (D)	43.6" (110.8 cm) 31.3" (79.5 cm) 28.5" (72.6 cm)	61" (154.9 cm) 44.7" (113.5 cm) 30.9" (78.6 cm)	40" (101.6 cm) 37.8" (96 cm) 27.5" (69.9 cm)	53.5" (135.9 cm) 49.1" (124.8 cm) 33.7" (85.6 cm)	62.5" (158.8 cm) 46.9 (119.0 cm) 46.2" (117.3 cm)	40" (101.6 cm) 37.8" (96 cm) 27.5" (69.9 cm)	53.5" (135.9 cm) 49.1" (124.8 cm) 33.7" (85.6 cm)
Weight	63.2 kg, 139.5 lbs	94.4 kg, 209 lbs	72.8 kg, 160.5 lbs	111 kg. 244.5 lbs	119.5 kg, 263.5 lbs	72.8 kg, 160.5 lbs	111 kg. 244.5 lbs
Power Consumption (Opt./Typ./Eco) - Watts	270/225/150	270/225/150	270/225/150	270/225/150	270/225/150	270/225/150	270/225/150
Display Square Meters	0.69	1.35	0.77	1.45	1.98	0.77	1.45
Total Pixels	2,073,600	2,073,600	1,470,000	1,470,000	1,470,000	786,432	786,432
Pixels per square meter	3,008,880	1,536,149	1,898,753	1,014,020	741,315	992,599	530,072
Pixel Pitch	0.06 mm	0.08 mm	0.07 mm	0.10 mm	0.11 mm	0.10mm	0.13mm

Wall Bases	c50HD Base	c70HD Base	c50RP Base	c67RP Base	c80RP Base	c50RX Base	c67RX Base
Standard Height	Adjustable 885mm to 915mm	Adjustable 940mm to 1000mm	Adjustable 885mm to 940mm	Adjustable 904mm to 965mm	Adjustable 696mm to 756mm	Adjustable 885mm to 940mm	Adjustable 904mm to 965mm
Custom Order Height	390mm to 1500mm	470mm to 1500mm	410mm to 1500mm	440mm to 1500mm	220mm to 1500mm	410mm to 1500mm	440mm to 1500mm
Screen Brace: Flush	Included	Included	Included	Included	Included	Included	Included
Screen Brace: Wall inset	Optional	Optional	Optional	Optional	Optional	Optional	Optional
Curved Wall support	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Internal Equip. Rack	Optional	Optional	Optional	Optional	Optional	Optional	Optional
Front, Side, and Rear Panels	Optional	Optional	Optional	Optional	Optional	Optional	Optional

CLARITY LE	D3 SERIES SPECIFICATIONS CONTINUED		
Imaging Technology	DLP		
Illumination System Lifetime	Clarity LED 6x redundant 60,000 Hrs / 100,000 Hrs in Eco Mode		
Screen Type Border (typical) Screen Gap Flat Wall Screen Gap Facetted (Curved) Wall	PrecisionView™ - 2 or PrecisionView™ - 1 0 mm FS: <0.7 mm; RS <0.1 mm FS: 2.5mm; RS 1.0mm		
Color and Brightness Control	Automatic RGBCYMW Brightness and Color via SiFi3™ for LED		
Brightness Uniformity** - ANSI 9	> 96%		
Colors	16.7 million		
Color Gamut	118% IBU		
Color Spaces	Native LED, Clarity NaturalColor™, Rec 709		
Application-Specific Display Profiles	Control Room, Simulation, Security, Low Amibient Light Studio Monitor, On-Camera, Eco		
Image Alignment	Integrated 6-axis motorized alignment		
Maximum Stacking	6 high (4 high with c80RP-LED3)		
Temperature Range	5-40° C for Eco & Low ambient modes (20° +/- 3° C for optimal screen performance)		
Humidity Range	20 to 80% RH non-condensing		
Serviceability	Full front and rear access (Rear access only for c80RP-LED2)		
Safety Regulations	FCC Class A, EN55022/CISPR22, ICES-003, CNS 13438, EN55024,		
Texas Instruments DLP Chip	XGA70" SXGA+90" FHD95"		
DLP Chip MTBF	100,000+ hours		
Color Depth	32 bit		
Ambient Noise	40 db/ 32 db in Eco Mode, 1 meter from front of display		
BTU/Hours	922 BTU/Hour Maximum 768 BTU/Hour Typical 512 BTU/Hour Eco		
МТВБ	50,000 for DLP; 100,000 for most electronics; 20,000 for fans		
Recommended filter change frequency	Six months		
Interior and exterior surfaces	Anti-reflective flat black		





CLARITY LED3 SERIES INPUT ELECTRONICS SPECIFICATIONS						
	Open	Indisys HD	Indisys Extensity			
Capabilities	Single Input or Big Picture	Single or Dual Input, PIP, Resize, Pan, Scale, Zoom, Snapshot, Crop, Recolor, etc.	Single or Quad Input, PIP, Resize, Pan, Scale, Zoom, Snapshot, Crop, Recolor, etc.			
Inputs	VGA to FHD (1920 x 1080) DSUB 15 pin connector x2, Single Link DVI-D	2x Dual Link DVI-D, 330 Mhz Pixel Frequency	4x DisplayPort, 330 Mhz Pixel Frequency			
Optional Inputs	SDI, Composite, S-Video, Component HD	(See Indisys HD Brochure)	(See Indisys Extensity Brochure)			
Loop Through	Analog, Digital, and Video	2x Dual Link DVI-D, 330 Mhz Pixel Frequency	4x DisplayPort, 330 Mhz Pixel Frequency			
Active Inputs at one time per display	One Input only, can be optionaly looped through to other displays	Up to Two Inputs, can be optionaly looped through to other displays	Up to Four Inputs, can be optionaly looped through to other displays			
Cube Control	IR Remote, RS-232, RS-485 with loop through WallNet 2	IR Remote, RS-232, Indisys Manage- ment Suite S/W vis Ethernet TCP/IP	IR Remote, RS-232, Indisys Management Suite S/W vis Ethernet TCP/IP			

OPTIONAL PLANAR VIDEO WALL PROCESSING						
	Planar Imager (PLI)	Visual Control Station (VCS)	Indisys High Definition	Indisys Extensity		
Capabilities	Full Resolution Wall workstation running various applications.	Full source selection and wall layout capability	Full source selection and wall layout with screnario managers. Allows background full wall reso- lution applications via PLI	Full source selection and wall layout with screnario managers. Allows background full wall reso- lution applications via PLI		
Video Inputs	not applicable	Various Anagloge, VGA, and DVI,a nd DisplayPort inputs	Various Anagloge, VGA, and DVI inputs	Various Anagloge, VGA, and DVI,a nd DisplayPort inputs		
Ouput Capability	48 FHD Displays	60 FHD Displays	Varies, > 60 Displays	Varies, > 80 Displays		
Control	Windows 7 or Indisys Manage- ment Suite	Wall Manager	Indisys Management Suite	Indisys Management Suite		
Notes	Additional Desktop sharing capability		Additional Desktop sharing capability	Additional Desktop sharing capability		
Cube Input Electronics Compatibility	Open, Indisys HD, Indisys Extensity	Open	Indisys HD	Indisys Extensity		



# PLANAR WORLDWIDE **SERVICE & SUPPORT**

Planar is a global company and proud of the role its products play in mission-critical environments around the world. With thousands of installations in operation across the globe, Planar supports its customers with a 24x7 worldwide service line and a global network of highly trained service technicians.



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