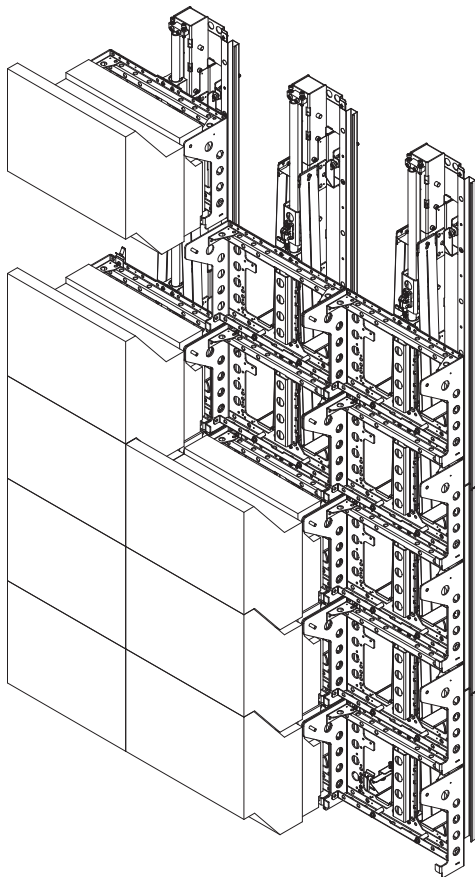**PRYSM**®

Premium Frame 2

The Premium Frame 2 is Prysm's most flexible framing system for Laser Phosphor Display (LPD) video walls, enabling displays of unlimited height and width to be mounted to floors, walls or overhead structures. Its modular architecture frees the display designer from traditional formats and allows rapid installation in configurations tailored to the content and host facility.

The Premium Frame 2 is also Prysm's framing system for LPD video walls in mission-critical applications. In the unlikely event of a failure, it provides direct access to any tile in the video wall and allows for the rapid replacement of components without extended downtime.

For more information, contact us at sales@prysm.com, 1.877.99.PRYSM or +1.408.586.1100.

Tile support structure partially loaded with LPD tiles. Upper left tile is raised for servicing.

Applications

The Premium Frame 2 is generally used to support large video walls and those in high-profile or mission-critical applications.

For maximum flexibility, the Premium Frame 2 system is offered in two packages:

Tile Support Structure + Host Facility Sub-Frame

The tile support structure includes the modular mechanical components that precisely position the LPD tiles in a video wall. The tile support structure is scalable to any size and is supported by a customer-provided host facility sub-frame specially designed to Prysm's specification for each installation site.

Tile Support Structure + Prysm Sub-Frame

Combines the core tile support structure with a Prysm-supplied floor-mounted support structure (no host facility sub-frame is required). Supports video walls up to 8 tiles high (10 ft, 3 m).

Features

- ▶ The most flexible framing system for LPD video walls
- ▶ Prysm's rapid-service framing solution for mission-critical applications (direct access to any tile in the video wall)
- ▶ Maintains precise alignment of LPD tiles
- ▶ Enables video walls of unlimited size (height and width)
- ▶ Supports straight or horizontally curved displays
- ▶ Modular architecture allows rapid installation
- ▶ Tile support structure can be supported by a customer-supplied host facility sub-frame requiring only common materials and construction techniques
- ▶ Tile support structure can be supported by a Prysm sub-frame that enables floor installations up to 8 tiles in height (no host facility sub-frame is required)
- ▶ Exterior panels may be attached to tailor the video wall's appearance to customer requirements
- ▶ Removable hoist facilitates safe and efficient tile installation and servicing
- ▶ Integral cable harnesses provide orderly cable management
- ▶ No electromechanical components

LPD™ Laser Phosphor Display

Specifications

Deployment Configurations	Tile Support Structure + Host Facility Sub-Frame	Tile Support Structure + Prysm Sub-Frame
Mounts to:		
Overhead	Yes	
Wall	Yes	
Floor	Yes	Yes
Display Lower Edge Height (min)	5.7 in (14.5 cm)	15 in (38 cm)
Horizontal Curvature	Determined by sub-frame	0 – 10°
Display Height	Unlimited	10 ft (3 m)
Display Width	Unlimited	Unlimited

Video Wall Depth	
Tile Support Structure for Host Facility Sub-Frame [1]	28.0 in (71 cm)
Tile Support Structure + Prysm Sub-Frame [2]	28.4 in (72 cm)
Gap Between Tiles [3]	< 0.02 in (0.5 mm)

Required Clearance – Passive Ventilation [4]	
Front	None
Rear [5]	1.6 in (4 cm)
Top and Bottom	4.2 in (10.5 cm)

Required Clearance – Service	
Front	23.6 in (60 cm)
Rear	2.5 in (6.4 cm)
Top and/or Bottom [6]	21.3 in (54 cm)
Tile Replacement	< 20 min/tile to be replaced plus 2 min/tile controlling access
Cooling	Passive, assisted by on-tile fans
Frame Finish	Powder Coated Matte Black
RoHS Compliance	Yes
Tilt (Forwards or Backwards) [7]	15° (max) from vertical

Frame Weight (Excluding Tiles and Electronics)	
Tile Support Structure [8]	34.6 lb (15.7 kg) per tile plus 17.8 lb (8.1 kg) per column
Tile Support Structure + Prysm Sub-Frame	

Video Wall Height	4-High	5-High	6-High	7-High	8-High
Weight (lb)	265	326	370	413	458
Weight (kg)	121	148	168	188	208

Parts & Accessories

Item	Part Number	Description
Hoist	050-00128-00	Attaches to the frame for loading and replacement of tiles. (1 per wall)
Tile Lift Bar	050-00126-00	Attaches to the LPD tile to facilitate transport and handling. (1 per wall)
Height Adjustment Kit	050-00132-00	Allows adjustment of video wall vertical position within 1 tile height. (optional, 1 per column)
Operate-Up Kit	050-00124-00	Allows tiles to be lowered for service where overhead access is unavailable. (optional, 1 per column)
Prysm Image Processor Rack	050-00020-00	Bracket (19", 1 RU) allowing attachment of IP2 to the rear of the Prysm sub-frame. Adds 2.5 in (6.4 cm) to depth. (optional, 1 per IP2)
Height Adjustment Legs	050-00130-00	Elevates Prysm sub-frame by 6 to 9 inches (15 to 23 cm). (optional, 1 per riser)
Stabilizing Bracket	050-00131-00	Extra bracket for securing Prysm sub-frame to host structure. (optional)
Panel Edge Protector (Replacement)	050-00133-00	Tape placed temporarily between tiles to prevent glass-to-glass contact during motion. (consumable)
Cosmetic Skins and Enclosures	Custom Order	Exterior panels may be attached to the frame to tailor its appearance to customer requirements. (optional)

Tile Support Structure (for use on a Host Facility Sub-Frame)

Height		
4 Tiles	031-00504-00	Assemblies which support a tile column of the specified height and mount on a customer-provided host facility sub-frame. See *Premium Frame 2 Planning Guide* (520-00036-00) for host facility sub-frame requirements.
5 Tiles	031-00505-00	
6 Tiles	031-00506-00	
7 Tiles	031-00507-00	
8 Tiles	031-00508-00	
9 Tiles	031-00509-00	
10 Tiles	031-00510-00	
11 Tiles	031-00511-00	
12 Tiles	031-00512-00	
> 12 Tiles	Contact Prysm	

Tile Support Structure + Prysm Sub-Frame

Height	Frame Column [9]	End Riser [9]	
4 Tiles	050-00076-00	050-00120-00	Support structure used to floor-mount the video wall without a host-facility sub-frame.
5 Tiles	050-00077-00	050-00139-00	
6 Tiles	050-00078-00	050-00140-00	
7 Tiles	050-00079-00	050-00141-00	
8 Tiles	050-00080-00	050-00142-00	

[1] Measured from display surface to the rearmost tile support structure component (does not include host facility sub-frame).
[2] Measured from display surface to the back of the Prysm sub-frame.
[3] For tall video walls the horizontal gap between upper tile rows (> 8 tiles high) may increase to accommodate accumulated dimensional tolerances.
[4] < 30 tile video wall, ambient conditions: < 30° C, 20% – 80% RH, unobstructed airflow. Larger installations and those without minimum ventilation clearances or assumed ambient conditions need thermal analysis and may require forced air cooling.
[5] Allowable position of a rear wall measured from the rear surface of the Prysm sub-frame. Clearance required behind a host facility sub-frame is design dependant.
[6] Access for tile replacement can be obtained by moving higher tiles up (standard), lower tiles down or a combination of the two. Access mechanism is set during installation and the total clearance must allow the specified range of motion.
[7] Tilt is not possible with the Prysm sub-frame.
[8] Approximation. For exact weight per configuration, see *Premium Frame 2 Planning Guide* (520-00036-00).
[9] Each Prysm sub-frame requires one frame column for each column of tiles plus one end riser.

LPD™ Laser Phosphor Display