

Standard Frame

The Standard Frame is a modular system that provides a scalable and flexible framework to support LPD video walls with the precision necessary to maintain a virtually seamless display surface. The modular structure offers designers the flexibility to assemble Prysm tiles into displays of any desired width and heights of up to eight tiles (10 ft, 3.0 m). It also includes hidden rack-mounting options for Prysm Image Processors and additional electronics.

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



Applications

The Standard Frame is typically selected to support LPD tile arrays in corporate, collaboration, command and control, broadcast, entertainment hospitality, and retail environments. Display applications include digital signage, advertising, public information, and events, as well as branding and interactive experience delivery.

Features

- ▶ Maintains precise alignment of LPD tile arrays
- ▶ Modular and scalable
- ▶ Column-based approach supports both straight and curved video walls
- ▶ Minimal required clearances
- ▶ Exterior panels may be attached to the video wall to adapt its appearance to customer requirements
- ▶ Add-on brackets facilitate bracing to adjacent structures for stability
- ▶ Removable hoist facilitates safe and efficient tile installation and replacement
- ▶ Industry-standard rack mounting options for Prysm Image Processors and additional electronics
- ▶ Integral cable channels and ducts provide for orderly cable management

...cont'd on reverse

Standard Frame

Specifications

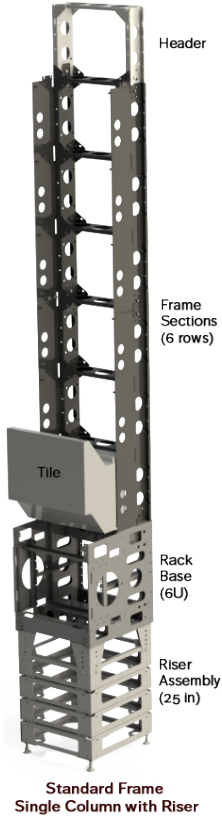
Deployment Configurations ¹	Floor mounted Wall mounted Overhead mounted
Depth ²	22.7 in (577 mm) 25.2 in (640 mm) with rear-mounted Prysm Image Processor
Height (maximum)	8 tiles
Width (maximum)	Unlimited
Leveling Adjustment	± 1.5 in (39 mm) provided by adjustable feet on each base (or riser if used)
Seam (typical tile-to-tile spacing)	< 0.02 in (0.5 mm)
Base Setback (from display plane)	1.5 in (38 mm)
Required Clearance – Tile Service	Front: 31.0 in (785 mm) ³ Rear and Sides: none ⁴ Top: 15.8 in (400 mm) ⁵
Tile Replacement	< 20 minutes (per tile × number of tiles controlling access)
Cooling ⁶	Passive ventilation, aided by on tile fans, is generally adequate for displays of ≤ 30 tiles in controlled environments with these unobstructed airflow paths: - Above the image: 4" tall by full image width - Below the image: 2" tall by full image width

Frame Finish	Powder coated matte black
RoHS Compliance	Yes
Horizontal Curvature	0 to 10 degrees (in 1-degree increments) Custom configurations available
Tilt Angle	± 15 degrees (custom hardware required)
Cable Management	Integrated cable channels and ducts
Electronics Mounting	1 U or 6 U Rack Base: Standard 19 in. rack hardware with max depth of 20.2 in (512 mm) Reduced Height Base: No equipment space 1 U Prysm Image Processor Rack (vertical, on rear)

Accessory	Description
Hoist	Attaches to the frame for installation and service of tiles. (one required per wall)
Tile Lifting Bar	Attaches to the tile for transport and handling. (one required per wall)
Prysm Image Processor Rack	Rack-mount bracket (19.0 in, 1 U) allowing attachment of Prysm Image Processor to the back of the frame. Adds 2.5 in (64 mm) to depth. (optional)
Stabilizing Bracket	Box insert that stiffens frame and provides sway brace attach points. (required for displays over 6 tiles tall)
Rail Slider	Floor-mounted structure that shifts the video wall sideways or fore/aft to allow service. (optional)
Riser Kits	Adjustable platforms which raise the column and display position by 5 to 25 in (127-635 mm) in 1-inch increments. (optional)
Cosmetic Skins and Enclosure	Exterior panels may be added to the video wall to adapt its appearance to customer requirements. (optional)

¹ All installations require structural engineering determination of seismic anchoring requirements.
² Depth is measured from display surface to rearmost frame component.
³ Video wall may be mounted on rail sliders to allow access where fixed clearance is not possible.
⁴ 24.0 in (610mm) preferred. Installation with less or no rear clearance requires special procedures.
⁵ Includes height of hoist plus clearance for mounting and dismounting.
⁶ Thermal analysis is necessary to determine display ventilation requirements.

Baseline Column Dimensions ¹



Wall Height (tile rows)	Base Type	Display Height ³		Frame Height ³ in (mm)	Required Ceiling Height ft (m) ^{3,4}	Weight lbs (kg) ⁵
		Lower Edge in (mm)	Upper Edge in (mm)			
3	RHB ²	11.8 (300)	57.0 (1447)	65.6 (1666)	6.18 (1.89)	100 (46)
	1 U Rack	15.4 (391)	60.5 (1538)	69.2 (1757)	6.48 (1.98)	94 (43)
	6 U Rack	30.9 (786)	76.1 (1933)	84.7 (2152)	7.77 (2.37)	130 (59)
4	RHB ²	11.8 (300)	72.0 (1829)	80.6 (2048)	7.43 (2.27)	117 (53)
	1 U Rack	15.4 (391)	75.6 (1920)	84.2 (2139)	7.73 (2.36)	112 (51)
	6 U Rack	30.9 (786)	91.1 (2315)	99.8 (2534)	9.03 (2.76)	147 (67)
5	RHB ²	11.8 (300)	87.1 (2212)	95.7 (2431)	8.69 (2.65)	133 (61)
	1 U Rack	15.4 (391)	90.6 (2303)	99.3 (2522)	8.99 (2.74)	128 (58)
	6 U Rack	30.9 (786)	106.2 (2698)	114.8 (2917)	10.28 (3.14)	163 (74)
6	RHB ²	11.8 (300)	102.1 (2594)	110.8 (2813)	9.94 (3.03)	150 (68)
	1 U Rack	15.4 (391)	105.7 (2685)	114.3 (2904)	10.24 (3.13)	145 (66)
	6 U Rack	30.9 (786)	121.3 (3080)	129.9 (3299)	11.54 (3.52)	180 (82)
7	RHB ²	11.8 (300)	117.2 (2976)	125.8 (3196)	11.20 (3.42)	167 (76)
	1 U Rack	15.4 (391)	120.8 (3067)	129.4 (3287)	11.50 (3.51)	162 (74)
	6 U Rack	30.9 (786)	136.3 (3462)	144.9 (3682)	12.79 (3.90)	197 (90)
8	RHB ²	11.8 (300)	132.2 (3359)	140.9 (3578)	12.45 (3.80)	183 (84)
	1 U Rack	15.4 (391)	135.8 (3450)	144.5 (3669)	12.75 (3.89)	178 (81)
	6 U Rack	30.9 (786)	151.4 (3845)	160.0 (4064)	14.05 (4.28)	213 (97)
Maximum Display Elevation ⁶			176.4 (4480)	185.0 (4699)	16.13 (4.92)	266 (121)

¹ Frame without riser. ⁴ Incorporates clearances needed for servicing.
² Reduced Height Base. ⁵ Per column weight for frame only. Add 68 lbs (31 kg) per tile plus allowances for electronics, cabling, and accessories.
³ With leveling feet at center of travel. ⁶ Based on tallest standard column (8 tile rows) and riser, 25 in (635 mm).

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