

Custom Solutions

Our freeform, modular design allows designers and architects to conceive of a display in nearly any shape or size. Imagine anything and our Digital Engagement Consultants will work to deliver the solution.

Each custom display solution is made from a set of LPD tiles, a backing frame, an enclosure, an image processor (IP1), a computer and power. Because each custom solution has different quantities and components the following tables show technical specifications for single components. Available in flat or curved configurations.

For more information, email our sales team at sales@prysm.com or call 1.877.99.PRYSM.

LPD Tile Characteristics

Tiles - Horizontal (Width)	Any
Tiles - Vertical (Height)	Any
Resolution/Pixels - Horizontal (Width)	320
Resolution/Pixels - Vertical (Height)	240/Tile
Display Area	Any
Viewable Area	100%
Seams - Optical (tile-to-tile)	0.25 mm
Pixel Pitch	1.6 mm
Brightness / Luminance (max)	800 nits (High Brightness), 600 nits (Deep Black)
Native Contrast Ratio	100,000:1
Pixel Fill Factor	91%
Gamma	Adjustable from 0.3-3.0
Viewing Angle	178° H/V (no color shift at any viewing angle)
Scan Rate	240 Hz
Frame Rate	120 Hz
Response Time	0.003 ms
Tile-to-Tile Brightness Uniformity	97%
Tile-to-Tile Color Uniformity	99%
Tile Calibration	Automatic
Color Processing	14 bit/color, 4.4 trillion colors
White Point	2,400 to 11,000 K (adjustable)



Environmental

TD1 Tile

Continuous Operation	24/7
Operating Temperature Range	0° to 40°C (32° to 104°F)
Storage Temperature Range	-20° to 50°C (-4° to 122°F)
Operating Humidity	20 to 80% (non-condensing)
Storage Humidity	10 to 90% (non-condensing)
IP Rating	IP 50, Indoor Use Only (additional enclosures enable outdoor use)
Heat Output	102 BTU/hr
Acoustic Noise Level	22 dBA (w/o fans) 35 dBA (w/fans)
Compliance	RoHS, WEEE
Testing & Inspection	TUV
Safety Approvals	UL, CSA, NRTL, T-Mark, GOST, STQC S-Mark, S-Mark, BSMI
EMC/EMI Certifications	FCC, IC, CE, VCCI, CoC, BSMI

Image Processor (IP1)

Continuous Operation	24/7
Operating Temperature Range	0° to 40°C (32° to 104°F)
Storage Temperature Range	-20° to 60°C (-4° to 140°F)
Operating Humidity	20 to 80% (non-condensing)
Storage Humidity	10 to 90% (non-condensing)
IP Rating	IP 50, Indoor Use Only (additional enclosures enable outdoor use)
Heat Output	102 BTU/ hr
Acoustic Noise Level	43 dBA
Compliance	RoHS, WEEE
Testing & Inspection	TUV
Safety Approvals	UL, CSA, GS-Mark, SASO, GOST, STQC S-Mark
EMC/EMI Certifications	FCC, CE

Power Consumption

Custom Solution Power Consumption

Power consumption for a custom solution is based on the total number of components in the configuration. Below are the specifications for the core components. For specific configuration power consumption questions, contact our sales team.

TD1 Tile

Power Consumption (average)	30 W/tile, 155 W/sq m
Power Consumption (standby)	7 W
Operating Voltage	100-240 VAC, 50/60 Hz

Image Processor (IP1)

Power Consumption (average)	30 W
Power Consumption (standby)	1 W
Operating Voltage	100-240 VAC, 50/60 Hz

Lifetime

TD1 Tile

System Lifetime	60,000 hours (to 50% initial brightness)
Consumables	None

Image Processor (IP1)

System Lifetime	60,000 hours
Consumables	None

Inputs via Image Processor (IP1)

Video Inputs	VGA, DVI-D*, HDMI*, Component (*HDCP Compliant)
Input Resolutions & Formats	See Image Processor One Pager for Resolutions & Formats
Input Frame Rates	See Image Processor One Pager for Frame Rates
Control Interface Connections	RS-232 (serial), RJ-45 (Ethernet)
Control Interfaces	Web Browser or Front Panel
Genlock	Analog, NTSC/PAL (bi-level), HD (tri-level)

Mechanical Characteristics

Custom Solution Mechanical Characteristics

Mechanical characteristics for a custom solution are based on the total number of components in the configuration. Below are the specifications for the core components. For specific configuration mechanical characteristics, contact our sales team.

TD1 Tile

Width (in.)	20.03
Height (in.)	20.62
Depth (in.)	14.32
Width (mm)	508.8
Height (mm)	523.8
Depth (mm)	363.7
Weight (lbs.)	63.9
Weight (kg)	29.0

IP1

Width (in.)	19.02
Height (in.)	1.75
Depth (in.)	13.90
Width (mm)	483.0
Height (mm)	44.5
Depth (mm)	353.0
Weight (lbs.)	13.2
Weight (kg)	6.0

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