

The Digital Mannequin

Bring LPD technology to lifesize with 5 tiles and a custom enclosure and create an opportunity for human-scale engagement. Requiring no special power or cooling infrastructure, and plugging directly into a regular wall outlet, the Digital Mannequin increases traffic and your bottom line.

The Digital Mannequin includes a set of LPD tiles, a backing frame, an optional enclosure, an image processor, and a standard power connector. This reference specification is for an enclosed solution.

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



Display Characteristics

Tiles - Horizontal (Width)	1
Tiles - Vertical (Height)	5
Resolution/Pixels - Horizontal (Width)	320
Resolution/Pixels - Vertical (Height)	1,200
Total Pixel Count	384,000
Display Area - Width (in.)	20.0
Display Area - Height (in.)	75.0
Display Area - Diagonal (in.)	77.6
Display Area - Width (mm)	508.0
Display Area - Height (mm)	1,905.0
Display Area - Diagonal (mm)	1,971.6
Display Area - Total (sq m)	0.968
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)

Power Consumption

Digital Mannequin Solution

Power Consumption (average)	150 W
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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)

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

Mechanical Characteristics

Digital Mannequin Solution

Width (in.) - In Wall	20.0
Height (in.) - In Wall	75.0
Depth (in.) - In Wall	21.7
Width (mm) - In Wall	508
Height (mm) - In Wall	1905
Depth (mm) - In Wall	552
Width (in.) - Std. Steel Enclosure	26
Height (in.) - Std. Steel Enclosure	93.6
Depth (in.) - Std. Steel Enclosure	22.7
Width (mm) - Std. Steel Enclosure	660
Height (mm) - Std. Steel Enclosure	2,377
Depth (mm) - Std. Steel Enclosure	577
Total Weight (lbs.)	650
Total Weight (kg)	295

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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