

The Digital Ribbon

From news tickers to sports stats, the 1.6mm pitch Digital Ribbon brings a new level of detail to the content. Show real-time results in greater fidelity and provide fans with the information that used to get lost in low resolution.

The Digital Ribbon 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)	6
Tiles - Vertical (Height)	2
Resolution/Pixels - Horizontal (Width)	1,920
Resolution/Pixels - Vertical (Height)	480
Total Pixel Count	921,600
Display Area - Width (in.)	120.0
Display Area - Height (in.)	30.0
Display Area - Diagonal (in.)	123.7
Display Area - Width (mm)	3,048.0
Display Area - Height (mm)	762.0
Display Area - Diagonal (mm)	3,141.8
Display Area - Total (sq m)	2.323
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 Ribbon Solution

Power Consumption (average)	360 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 Ribbon Solution**

Width (in.) - In Wall	120.0
Height (in.) - In Wall	30.0
Depth (in.) - In Wall	21.7
Width (mm) - In Wall	3,048
Height (mm) - In Wall	762
Depth (mm) - In Wall	552
Width (in.) - Std. Steel Enclosure	126
Height (in.) - Std. Steel Enclosure	48.6
Depth (in.) - Std. Steel Enclosure	22.7
Width (mm) - Std. Steel Enclosure	3,200
Height (mm) - Std. Steel Enclosure	1,234
Depth (mm) - Std. Steel Enclosure	577
Total Weight (lbs.)	1,500
Total Weight (kg)	680

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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