

IP2 Image Processor

The Prysm IP2 Image Processor accepts standard video inputs (Dual Link DVI-D, HDMI, and DisplayPort) from an upstream video wall controller, media player, or PC and distributes this video (along with configuration and control information) to the TD2¹ tiles that comprise a Laser Phosphor Display (LPD) video wall. In response, the tiles return health, status, and performance information which is used by the IP2 to automatically ensure brightness and color uniformity across the entire video wall over time.

Each IP2 may support up to thirty (30) TD2 LPD tiles in enhanced or standard resolution modes. Larger video walls require multiple IP2s. For a multi-IP2 video wall, an upstream controller is needed to break up the video canvas into smaller sections and send each section of video to the appropriate IP2.

Comprehensive configuration and management of the video wall is controlled through the IP2's Display Manager™ application. Display Manager is accessible on-site or remotely via a Web browser. Refer to the Display Manager specification sheet more information.

¹ TD1 tiles are not supported.

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



Features

Front Panel

- ▶ On/Standby Switch
- ▶ Power Status LED
- ▶ LCD Screen
- ▶ Navigation/Selection Buttons
- ▶ Status LEDs
- ▶ USB Firmware Upgrade Port
- ▶ RJ-45 Service Port
- ▶ RS-232 Remote Control Port That Splat
- ▶ Standard 19" Rack Mount Ears
- ▶ PORT 1²

Back Panel

- ▶ 8 Display Outputs³
- ▶ Genlock Input
- ▶ Genlock Output²
- ▶ Highspeed Genlock & DBC Link In/Out Ports
- ▶ DisplayPort Input
- ▶ VGA Input²
- ▶ Digital Dual-Link DVI-D Input
- ▶ HDMI Video Input
- ▶ RJ-45 Internet LAN Input
- ▶ Factory Reset Button
- ▶ Power Input
- ▶ AC Power Switch

² Currently not in use.

³ Only 6 display outputs are used for CAT-7 tile cables.

continued on reverse

Specifications

System I/O

Video Inputs	Dual Link DVI-D ¹ , HDMI 1.4 ¹ , DisplayPort 1.2 ¹
Display Outputs	RJ-45 ²
Control Interface	RS-232 ³ , RJ-45 ⁴ , or Front Panel
Genlock	Analog, NTSC/PAL (Bi-Level), HD (Tri-Level)
Other	USB Firmware Upgrade Port RJ-45 Service Port

Power

Power Consumption	30 W Avg, 35 W Max
Operating Voltage	100-240 VAC, 50/60 Hz

Mechanical Characteristics

Weight	6 kg (13.2 lbs)
Dimensions (W × H × D)	438 mm × 44 mm × 406 mm (17.2 in × 1.7 in × 16.0 in)
Mounting	1 RU Rack Mount, Wall Mount, or Tabletop

Environmental

Continuous Operation	24/7
Operating Temperature Range	0° C to 40° C
Storage Temperature Range	-20° C to 60° C
Operating Humidity	20 to 80% (Non-Condensing)
Storage Humidity	10 to 90% (Non-Condensing)
IP Rating	IP 50, Indoor Use Only ⁵
Acoustic Noise Level	20 dBA ⁶
Compliance	RoHS, WEEE
Standards	IEC60950-1, EN (5502, 55024)
Certifications	NRTL (US & Canada), FCC Part 15 (Class A), CE

¹ HDCP-compliant HDMI inputs accept HDMI live source inputs at 720p @ 60 Hz and 1080p @ 60 Hz, such as laptops, tablets, VTC, HDTV. HDCP-encoded content connected as a live source is not displayed.

² Via shielded CAT-7 for proprietary video, data, and control.

³ Serial RS-232.

⁴ Web browser via Ethernet port or ECI over IP.

⁵ Additional enclosures available for outdoor use.

⁶ At 1m distance from the IP2 (fanless design).

IP2 Resolutions & Formats

Video Formats

Standard	Resolution	Frame Rate	DisplayPort 1.2	HDMI 1.4	Dual Link DVI-D
480i	640 × 480	59.94/60 Hz	Yes	Yes	Yes
480i	720 × 480	59.94/60 Hz	Yes	Yes	Yes
480p	720 × 480	59.94/60 Hz	Yes	Yes	Yes
PAL	720 × 576i	50 Hz	Yes	Yes	Yes
PAL	720 × 576p	50 Hz	Yes	Yes	Yes
720p	1280 × 720	50/59.94/60 Hz	Yes	Yes	Yes
1080i	1920 × 1080	50/59.94/60 Hz	Yes	Yes	Yes
1080p	1920 × 1080	23.97/24/25/29.97 Hz	Yes	Yes	Yes
		30/50/59.94/60 Hz	Yes	Yes	Yes

Graphics Resolutions

Standard	Resolution	Refresh Rate	DisplayPort 1.2	HDMI 1.4	Dual Link DVI-D
VGA	640 × 480	60 Hz	Yes	No	Yes
		75 Hz	Yes	No	Yes
SVGA	800 × 600	60 Hz	Yes	No	Yes
		75 Hz	Yes	No	Yes
XGA	1024 × 768	60 Hz	Yes	No	Yes
		75 Hz	Yes	No	Yes
XGA+	1152 × 864	75 Hz	Yes	No	Yes
HD	1366 × 768	60 Hz	Yes	No	Yes
WXGA	1280 × 720	60 Hz	Yes	No	Yes
		75 Hz	Yes	No	Yes
WXGA	1280 × 800	60 Hz	Yes	No	Yes
		75 Hz	Yes	No	Yes
WXGA	1280 × 768	60 Hz	Yes	No	Yes
		75 Hz	Yes	No	Yes
SXGA	1280 × 1024	60 Hz	Yes	No	Yes
		75 Hz	Yes	No	Yes
SXGA+	1400 × 1050	60/75 Hz	Yes	No	Yes
WXGA+	1440 × 900	60/75 Hz	Yes	No	Yes
UXGA	1600 × 1200	60/75 Hz	Yes	Yes	Yes
WSXGA+	1680 × 1050	60/75 Hz	Yes	Yes	Yes
Full-HD	1920 × 1080	60/75 Hz	Yes	Yes	Yes
WUXGA	1920 × 1200	60/75 Hz	Yes	Yes	Yes
2K	2048 × 1080	60 Hz	Yes	No	Yes
QXGA	2048 × 1536	60 Hz	Yes	No	Yes
QWXGA	2048 × 1152	60 Hz	Yes	No	Yes
WQHD	2560 × 1440	60 Hz	Yes	No	Yes
WQXGA	2560 × 1600	60 Hz	Yes	No	Yes

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