THE NEXT GENERATION OF PROFESSIONAL UHD BROADCAST MONITORS

HDQLINE Represents the latest generation of Broadcast UHD capable Monitors, based on a custom developed video and audio processing platform in combination with the most precise LCD panel technology available today. Heart of the platform is a powerful high-precision video processing engine – 4 times more powerful than earlier versions – controlled by a fast embedded processor and cleverly designed software.

PROFESSIONAL POWER

In designing these monitors, the priority was to satisfy the full performance and capabilities required by broadcast and film professionals. These include:

FEATURING VIDEO PROCESSING ENGINE UP TO 4096x2160 PIXELS

No compromises in core features like accurate color reproduction, signal support and picture quality
Exceptional 4K capabilities to easily manage complex High Dynamic Range (HDR) workflows
Future proof platform design which allows adaptation to emerging technologies and upcoming standards
Fast and easy setup and operation, even in challenging life TV applications

The HDQLINE series of multi-standard monitors are ideally suited for challenging high-end applications – wherever the brilliance and sharpness of ultra-high resolution images together with state of the art usability and future proofness are required.

Available Models

HDQLINE HDP Series:	HD Monitors
HDQLINE HRDP Series:	HD Reference Monitors
HDQLINE QDP Series:	UHD/4K Monitors
HDQLINE QRDP Series:	UHD/4K Reference Monitors

The information in this document is subject to change without notice.

Main Features

Performance

- 24/7 operation, optimized for long life, low noise

System Integration

- Wide range of control protocols (TSL, Ember+, VTS-LSB, RCP – 1806), GPI/O, NTP

Widgets

- IMD/UMD, Tally, Timecode, Clock, Marker, Border, Audio Bars, Wave-form, Vectorscope, CIE Chart

I/O Flexibility

- Input :4x 3G SDI SFP, 2x BNC SDI, 2x HDMI, DP
- Output: 1x 3G BNC SDI
- Multiformat Quad Split included

Optional

- Input: 2 x 12G SDI via QIO 12G

Fast Setup and Control

- Local and Remote keyboards
- Display Control Suite manage-ment software (DCS+)
- Automatic color calibration
- Presets
- OSD

Panel Performance

- Wide viewing angle
- IPS technology

Precise Color Reproduction

- 3D LUT, Uniformity Correction
- Wide color gamut

HDR Features

- HDR EOTF: HLG, PQ, SLog-3
- False Color

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OVERVIEW MODELS

Size	HD / 2K	UHD / 4K	UHD / 4K Reference Monitor	Borderless Wall Monitor
17" - 18"	HDP 185-B HDL 185-B (slim)	QDP 173-A QDL 173-A (slim)		
21"	HDP 215-A			
24"	HDP 240-A	QDP 240-B	HRDP 240-B	
27"		QDP 270-A		
32"		QDP 320-C QDP 320 HC-A	QRDP 310-A QRDP 310-B	
42"		QDP 430-C		
49"	HDP 490-A	QDP 490-C		
55"	HDP 550-A	QDP 550-C		HDP 550 XSB-A
65"		QDP 650-C		

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HD/2K Monitors (HDP Series)

Model	HDP 215-A	HDP 240-A	HDP 490-A	HDP 550-A
Type	HDTV LCD	HDTV LCD	HDTV LCD	HDTV LCD
Screen Size	21.5″	24″	49″	55″
Native Resolution	1920x1080	1920x1200	1920x1080	1920x1080
Aspect Ratio	16:9	16:10	16:9	16:9
Active Screen Size	475.2 mm(H) x 257.30 mm (V)	518.4 mm (H) x 324.0 mm (V)	1073.7 mm (H) x 604.0 mm (V)	1209.6 mm (H) x 680.4 mm (V)
Brigtness max.	250 cd	300 cd	700 cd	700 cd
Contrast Ratio	1000:1	1000:1	1300:1	1300:1
Viewing Angle	H-178°/V-178°	H-178°/V-178°	H-178°/V-178°	H-178°/V-178°
Colors	16.7 M	16.7 M	1.06 B	1.06 B

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UHD/4K Monitors (QDP Series)

Model	QDP 240-B	QDP 270-A	QDP 270 HC-A	QDP 320-C	QDP 320 HC-A
Type	UHDTV LCD	UHDTV LCD	UHDTV LCD	UHDTV LCD	UHDTV LCD
Screen Size	23.8“	27“	27“	31.5“	31.5“
Native Resolution	3840x2160	3840x2160	3840x2160	3840x2160	3840x2160
Aspect Ratio	16:9	16:9	16:9	16:9	16:9
Active Screen Size	527 mm (H) x 296.5 mm (V)	596.7mm (H) x 335.7 mm (V)	596.7mm (H) x 335.7 mm (V)	697.3 mm (H) x 392.2 mm (V)	697.3 mm (H) x 392.2 mm (V)
Brigtness max.	540 cd	450 cd	400 cd	450 cd	400 cd
Contrast Ratio	1200:1	1300:1	**2000:1**	1300:1	**2000:1**
Viewing Angle	H-178°/V-178°	H-178°/V-178°	H-178°/V-178°	H-178°/V-178°	H-178°/V-178°
Colors	1.06 B	1.06 B	1.06 B	1.06 B	1.06 B
Color Gamut	Wide Gamut	Wide Gamut	Wide Gamut	Wide Gamut	Wide Gamut

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Large Screen UHD/4K Monitors (QDP Series)

Model	QDP 430-C	QDP 490-C	QDP 550-C	QDP 650-C
Type	UHDTV LCD	UHDTV LCD	UHDTV LCD	UHDTV LCD
Screen Size	43“	49“	55“	65“
Native Resolution	3840x2160	3840x2160	3840x2160	3840x2160
Aspect Ratio	16:9	16:9	16:9	16:9
Active Screen Size	941.2 mm (H) x 529.4 mm (V)	1073.8 mm (H) x 604.0 mm (V)	1209.6 mm (H) x 680.4 mm (V)	1428.4 mm (H) x 803.5 mm (V)
Brigtness max.	700 cd	700 cd	700 cd	700 cd
Contrast Ratio	1100:1	1100:1	1100:1	1100:1
Viewing Angle	H-178°/V-178°	H-178°/V-178°	H-178°/V-178°	H-178°/V-178°
Colors	1.06 B	1.06 B	1.06 B	1.06 B

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Rack Mount Monitors

Model	HDP 185-B	HDL 185-B (low profile)	QDP 173-A	QDL 173-A (low profile)
Type	HDTV LCD	HDTV LCD	UHDTV LCD	UHDTV LCD
Screen Size	18.5″	18.5″	17.3″	17.3″
Native Resolution	1920x1080	1920x1080	3840x2160	3840x2160
Aspect Ratio	16:9	16:9	16:9	16:9
Active Screen Size	408.9 mm (H) x 230.1 mm (V)	408.9 mm (H) x 230.1 mm (V)	382.1 mm (H) x 214.9 mm (V)	382.1 mm (H) x 214.9 mm (V)
Brigtness max.	500 cd	500 cd	400 cd	400 cd
Contrast Ratio	1000:1	1000:1	1000:1	1000:1
Viewing Angle	H-178°/V-178°	H-178°/V-178°	H-178°/V-178°	H-178°/V-178°
Colors	16.7 M	16.7 M	16.7 M	16.7 M
Outline Dimensions (mm)	442 x 263 x 137	442 x 263 x 90	414 x 359 x 125	414 x 359 x 78

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Reference Monitors

Model	HRDP 240-B	QRDP 310-A	QRDP 310-B
Type	HDTV LCD	UHDTV LCD	UHDTV LCD
Screen Size	24″	31″	31″
Native Resolution	1920x1200	4096x2160	4096x2160
Aspect Ratio	16:10	17:9	17:9
Active Screen Size	518.4 mm (H) x 324.0 mm (V)	697.9mm (H) x 368.1 mm (V)	697.9 mm (H) x 368.1 mm (V)
Brigtness max.	400 cd	350 cd	525 cd
Contrast Ratio	1800:1	1500:1	1500:1
Viewing Angle	H-178°/V-178°	H-178°/V-178°	H-178°/V-178°
Colors	1.06 B	1.06 B	1.06 B
Color Gamut	Wide Gamut	Wide Gamut	Wide Gamut

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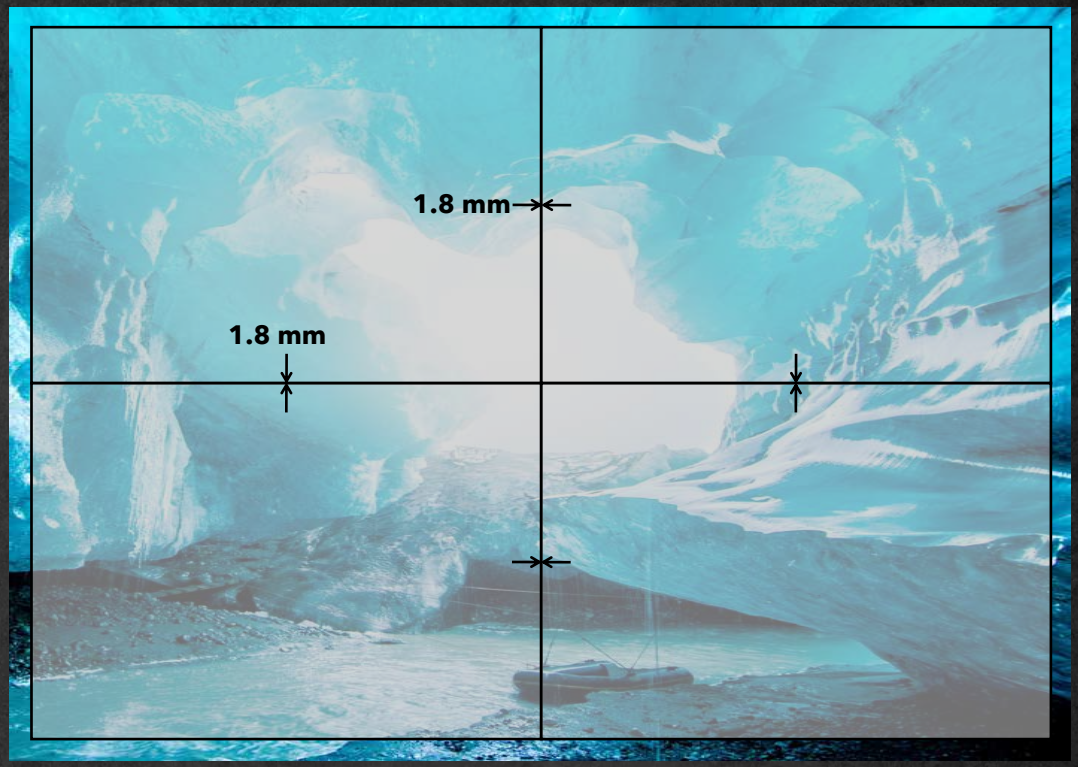
Videowall Monitors (borderless)

Model	HDP 550 XSB-A
Type	HDTV LCD
Screen Size	55“
Native Resolution	1920x1080
Aspect Ratio	16:9
Active Screen Size	1209.6 mm (H) x 680.4 mm (V)
Brigtness max.	500 cd
Contrast Ratio	1100:1
Viewing Angle	H-178°/V-178°
Colors	1.06 B

Super narrow bezel



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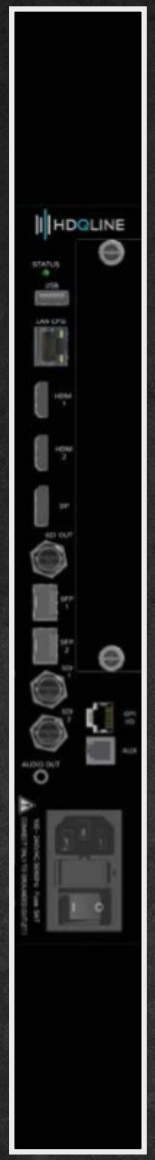
MAIN BOARD



Processing Engine

The heart of all HDQLINE monitors is the custom designed QIO processing engine. It provides a maxium of I/O flexibility and allows adaption to upcoming requirements and future standards.

Complete list of interfaces

- 4x SDI Input (SD, 1.5G, 3G) ⇒ 2x SFP slots, modules optionally available
- 2x SDI Input (SD, 1.5G, 3G) ⇒ 2x BNC
- 2x HDMI Input ⇒ 1x HDMI 2.0, 1x HDMI 1.3
- 1x Display Port Input ⇒ DP 1.1a
- 1x Audio Output ⇒ Stereo Phone Jack
- 1x LAN ⇒ 1GigE RJ45, control and management
- 1x AUX ⇒ RJ10, external keyboard, light control
- 1x GPIO ⇒ RJ45
- 1x USB ⇒ USB 2.0, Firmware Update, Presets
- Option Slot ⇒ 1x optional I/O module (e.g. QIO 12G)

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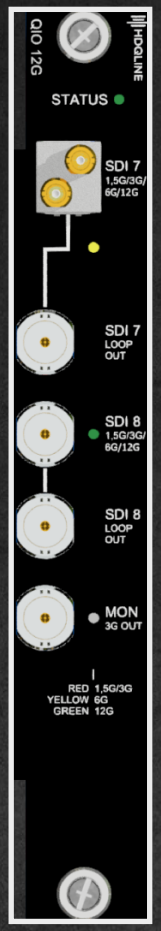
OPTIONS



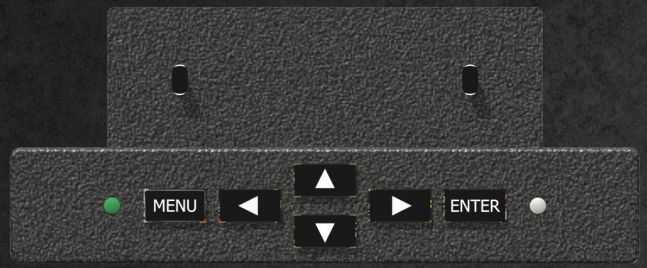
QIO Dual 12G Input Module

This module adds 2x 12G SDI single link UHD/4K inputs to the HDQLINE monitor platform. To widen the application area one input supports SFP modules allowing fiber or copper connection.

Complete list of interfaces

- 1x 12G SDI Input A (1.5G – 12G) ⇒ 1x BNC
- Loop Out A ⇒ 1x BNC
- 1x 12G SDI Input B (1.5G – 12G) ⇒ 1x SFP (coax/fiber) not included
- Loop Out B ⇒ 1x BNC
- 1x 3G SDI Output (monitors a single UHD quadrant) ⇒ 1x BNC

OPTIONS



External Under Monitor Keyboard

The **Q-UM-KBD** optional under monitor keyboard can be mounted to any HDQLINE monitor for front side OSD menu operation.

External Rack Mount Keyboard

The **Q-AUX-KBD** optional rack mount keyboard can be mounted 19" racks to control any HDQLINE monitor.

SFP Modules

- SFP module dual 3G SDI RX coax (HD-BNC) **SFP-3G-SDI-DR**
- SFP module dual 3G SDI RX fiber (LC) **SFP-3G-SDI-DR-OPT**
- SFP module dual 12G SDI RX coax (HD-BNC) **SFP-12G-SDI-COAX**
- SFP module dual 12G SDI RX fiber (LC) **SFP-12G-SDI-OPT**
- SFP module dual SMPTE ST 2110 to SDI gateway 10G BASE-SR multimode fiber (LC) **SFP-VOIP-DR-OPT**

Others

- 19" rack mount kit for 17" and 18" monitors **RACKMOUNT-17/ RACKMOUNT-18**
- VESA 400/200 adaptor **ADAPTOR-VESA-400**
- Reference light for calibrated ambient/wall lighting behind monitors (on request)
- Calibrated control/direction room lamps (on request)

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