

QFHD 10bit multi-format LCD Monitor: DM-3410

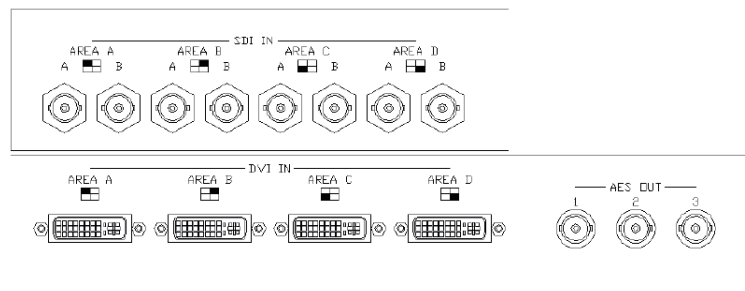
Specification Reference

Features

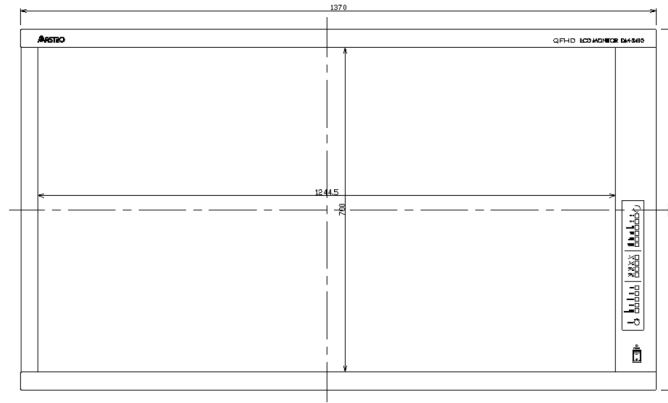
- 10bit color reproduction
- Compatible with 3G HD-SDI (SMPTE 424M, SMPTE 425M)
- Compatible with both single and dual DVI signals
- Compatible with 4K × 2K 12bit (X'Y'Z' 4:4:4) signal
- Uniformity circuit that corrects and standardizes luminance deviation, based on the value specific to each display device (analyzed and adjusted one by one before shipment)
- Embedded frame synchronizer capable of displaying 4K/ QFHD image without Genlock (as far as running on the same format)
- 2K × 1K up-conversion upto full screen display
- High brightness (450cd/m²) and high contrast (1300:1)



Input Specifications	
HD-SDI	Compliant with ITU-R BT.1769, BTA S-004B (1.485Gbit/s HD-SDI input) Automatic field (frame) frequency detection: 60.00/59.94, 50.00, etc[Hz]
3G HD-SDI	Compliant with SMPTE 424M, SMPTE 425M (2.970Gbit/s 3G HD-SDI input) Automatic field (frame) frequency detection: 60.00/59.94, 50.00, etc[Hz]
DVI	Compliant with DVI-D signal (Dual Link) , DDWG (Panel Link)
Output Specifications	
AES / EBU	Audio Ch1 to Ch6 embedded in the SDI signal assigned to the area A



Display specifications	
Panel	56" a-Si TFT LCD
Color	10 bit for each of RGB: 1,073,741,824 colors displayable
Contrast	1300:1
Response time	6.5ms (typ.: gray-to-gray average)
Viewing Angle	H: 170 degrees V: 170 degrees
Luminance	450cd/m ² (at 6500K color temperature)
Display area	1,244.5 (H) × 700 (V) mm
Resolution	3,840(H) × 2,160(V) pixels
Pixel pitch	0.108(H) × 0.324(V) mm



General Specifications	
Operating temperature	10~40 °C (no condensation)
Storage temperature	-10~60 °C
Operating humidity	30~80%RH (ambient temperature 0 to 40 °C and no condensation)
Storage humidity	10~90%RH (ambient temperature 0 to 40 °C and no condensation)
Rated voltage	AC 100-240V
Power consumption	550 Watt (typ.)
Exterior dimensions	1370(W) × 776(H) × 160(D) mm
Weight	approx. 58kg

Input Formats				
HD-SDI (SMPTE 292M / 294M / 372M)				
Input type	Color space	Color depth	Resolution	Frame Freq.
HD-SDI single	YPbPr 4:2:2	10bit	1920 × 1080	59.94i, 60i, 29.98p, 29.98psf, 30psf, 30p, 23.98p, 24p, 23.98psf, 24psf, 25psf, 25p
Dual Link	YPbPr 4:2:2	10bit	1920 × 1080	59.94p, 60p, 50p
	RGB 4:4:4	10bit / 12bit	1920 × 1080	59.94i, 60i, 29.98p, 29.98psf, 30psf, 30p, 23.98p, 24p, 23.98psf, 24psf, 25psf, 25p
Dual Link × 4	X' Y' Z' 4:4:4	12bit	2048 × 1080	23.98p, 24p, 23.98psf, 24psf
	YPbPr 4:2:2	10bit	3840 × 2160	59.94i, 60i, 29.98p, 29.98psf, 30psf, 30p, 23.98p, 24p, 23.98psf, 24psf, 25psf, 25p
Dual Link × 4	YPbPr 4:2:2	10bit	3840 × 2160	59.94p, 60p, 50p
	RGB 4:4:4	10bit / 12bit	3840 × 2160	59.94i, 60i, 29.98p, 29.98psf, 30psf, 30p, 23.98p, 24p, 23.98psf, 24psf, 25psf, 25p
	X' Y' Z' 4:4:4	12bit	4096 × 2160	23.98p, 24p, 23.98psf, 24psf
3G HD-SDI (SMPTE 424M / 425M)				
Input type	Color space	Color depth	Resolution	Frame Freq.
3G HD-SDI	YPbPr 4:2:2	10bit	1920 × 1080	59.94p, 60p, 50p
	RGB 4:4:4	10bit / 12bit	1920 × 1080	59.94i, 60i, 29.98p, 29.98psf, 30psf, 30p, 23.98p, 24p, 23.98psf, 24psf, 25psf, 25p
3G HD-SDI × 4	YPbPr 4:2:2	10bit	3840 × 2160	59.94p, 60p, 50p
	RGB 4:4:4	10bit / 12bit	3840 × 2160	59.94i, 60i, 29.98p, 29.98psf, 30psf, 30p, 23.98p, 24p, 23.98psf, 24psf
DVI-D (DDWG [panel link])				
Input type	Color space	Color depth	Resolution	Frame Freq.
DVI single	RGB	8bit	1920 × 1080	59.94p, 60p
DVI single × 4	RGB	8bit	3840 × 2160	59.94p, 60p
	RGB	8bit	3840 × 2160	59.94p, 60p
DVI Dual × 2	RGB	8bit	3840 × 2160	59.94p, 60p

ASTRODESIGN, Inc.

<http://www.astrodesign.co.jp>

1-5-2 Minami-yukigaya, Ota-ku, Tokyo, Japan 145-0066

TEL. +81-(0)3-5734-6320 FAX. +81-(0)3-5734-6104