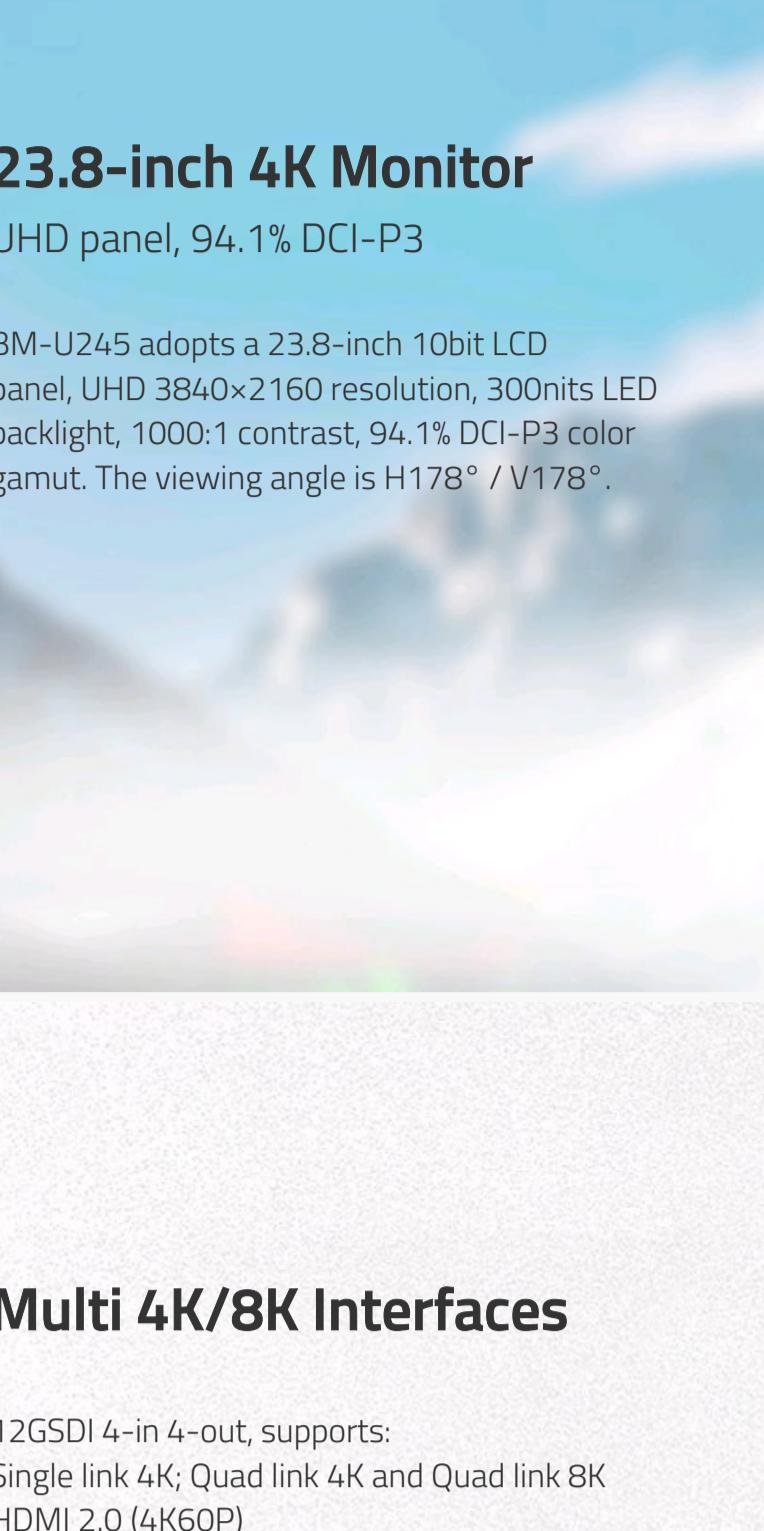
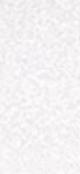


Home > Monitor > Studio

BM-U245 | 23.8-inch 4K/8K 12GSDI Studio Monitor

- > 23.8-inch LCD Panel, 3840x2160 resolution
- > 12GSDI 4-in 4-out, 8K input ready, HDMI2.0 input
- > 12GSDI via SFP Fiber input (Optional)
- > ST2110 IP via SFP Fiber input (Optional)
- > 3DLUT Auto Self-calibration without PC
- > Audio/Video O latency for lip-sync
- > HLG/PQ/S-log3 HDR EOTF
- > Payload ID auto setting
- > Built-in Multi camera Delay LUTs
- > User 3DLUTs upload via USB
- > Waveform / Vector / Histogram
- > Focus assist / False color / Zebra
- > 16-ch audio meters / Lissajous
- > IP webserver remote control
- > TSL UMD and text TALLY display
- > USB firmware upgrade



MSRP

Ex TAX / Shipping

Features

Specifications

Download

What's in box

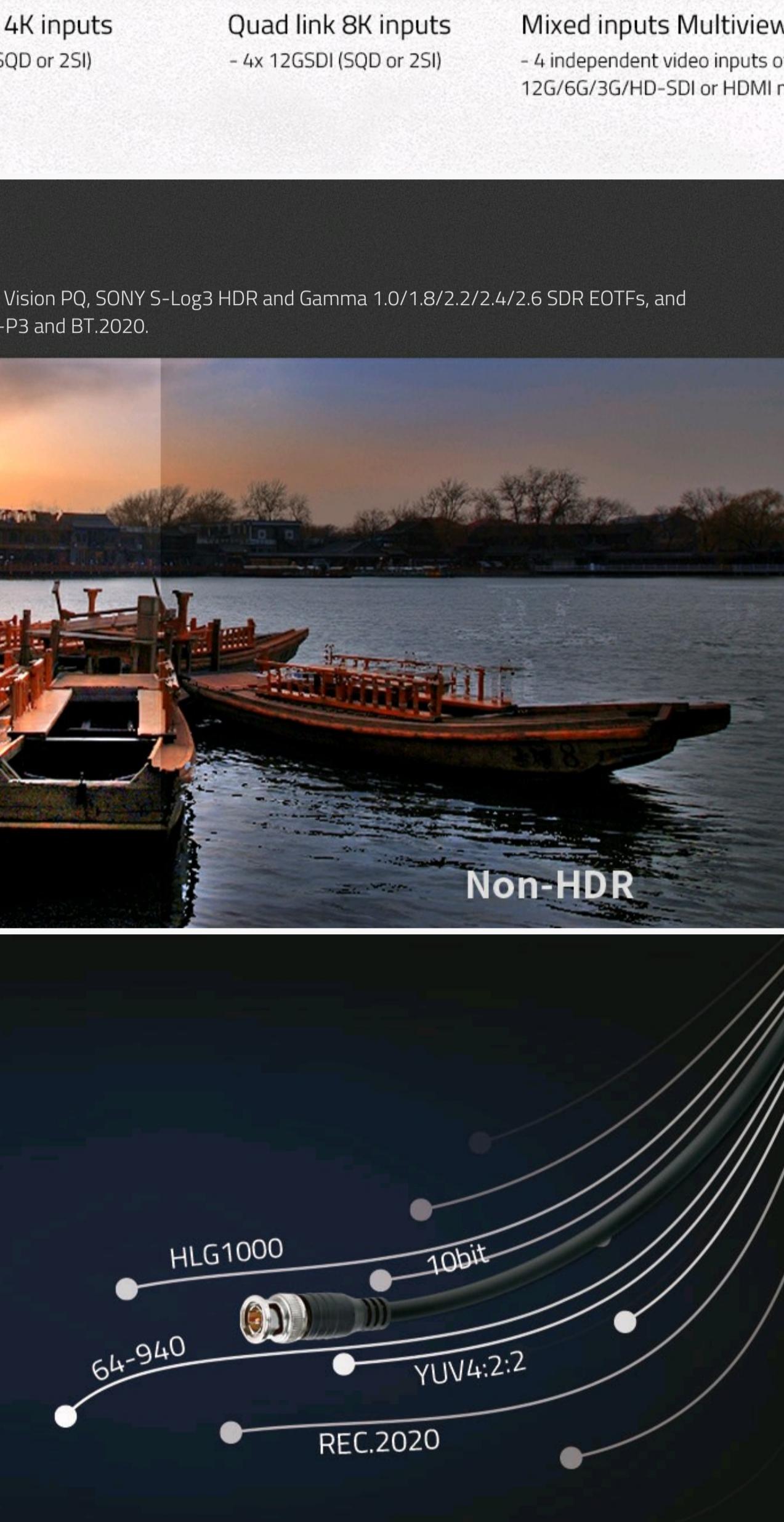
Optional accessory

Related

23.8-inch 4K Monitor

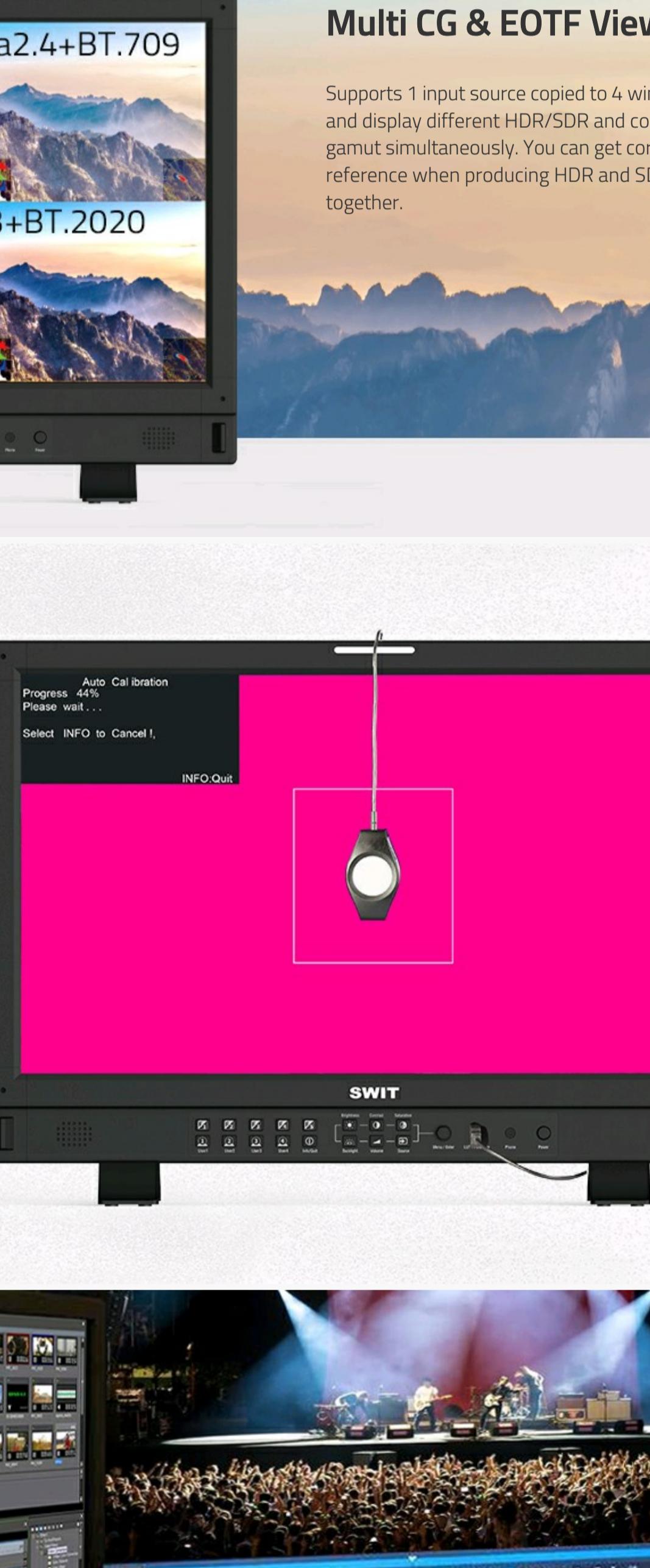
UHD panel, 94.1% DCI-P3

BM-U245 adopts a 23.8-inch 10bit LCD panel, UHD 3840x2160 resolution, 300nits LED backlight, 1000:1 contrast, 94.1% DCI-P3 color gamut. The viewing angle is H178° / V178°.

**Multi 4K/8K Interfaces**

12GSDI 4-in 4-out, supports:
Single link 4K; Quad link 4K and Quad link 8K
HDMI 2.0 (4K60P)
12GSDI via SFP Fiber (Optional)
ST2110 IP via SFP Fiber (Optional)

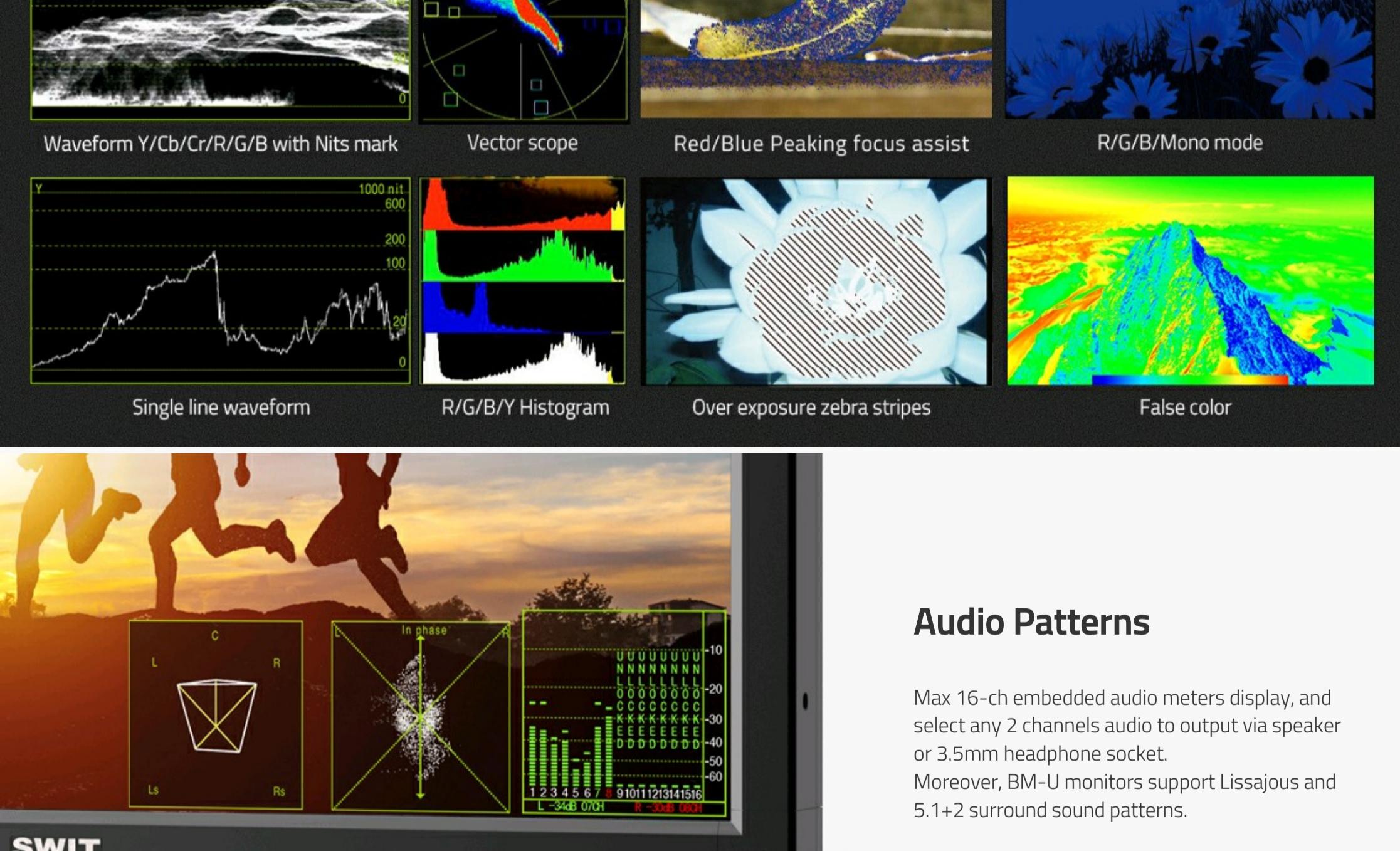
* The Quadlink 4K/8K supports both Quad mode and 2SI interleave mode;
* The SFP optical fiber adaptor is optional purchased.

**Display Modes**

Supports Single link 4K input including 12GSDI, HDMI2.0 or 12GSDI via SFP, and Quad link 4x 3GSDI 4K or Quad link 4x 12GSDI 8K inputs. You can also input 4x independent 4K videos to multiview, supports 12G/6G/3G/HD-SDI and HDMI 2.0/1.4/1.3 mixed formats input, and waveform, vector, audio meters, EOTF, color gamut selection for each input.

**HDR/SDR EOTFs**

BM-U245 provides HLG (Hybrid Log Gamma), Dolby Vision PQ, SONY S-Log3 HDR and Gamma 1.0/1.8/2.2/2.4/2.6 SDR EOTFs, and Color Gamut selection from LCD native, BT.709, DCI-P3 and BT.2020.

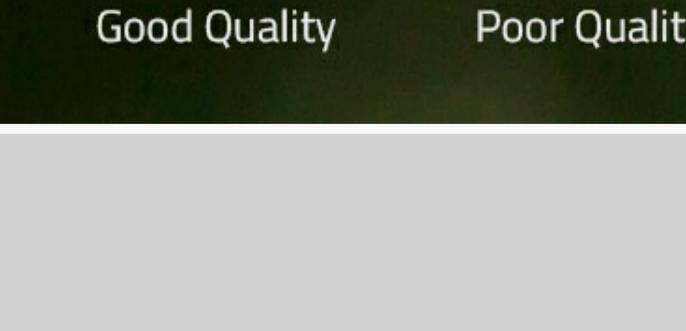
**3DLUT Auto Self-Calibration**

By X-rite i1 or JETI Specbos 1211

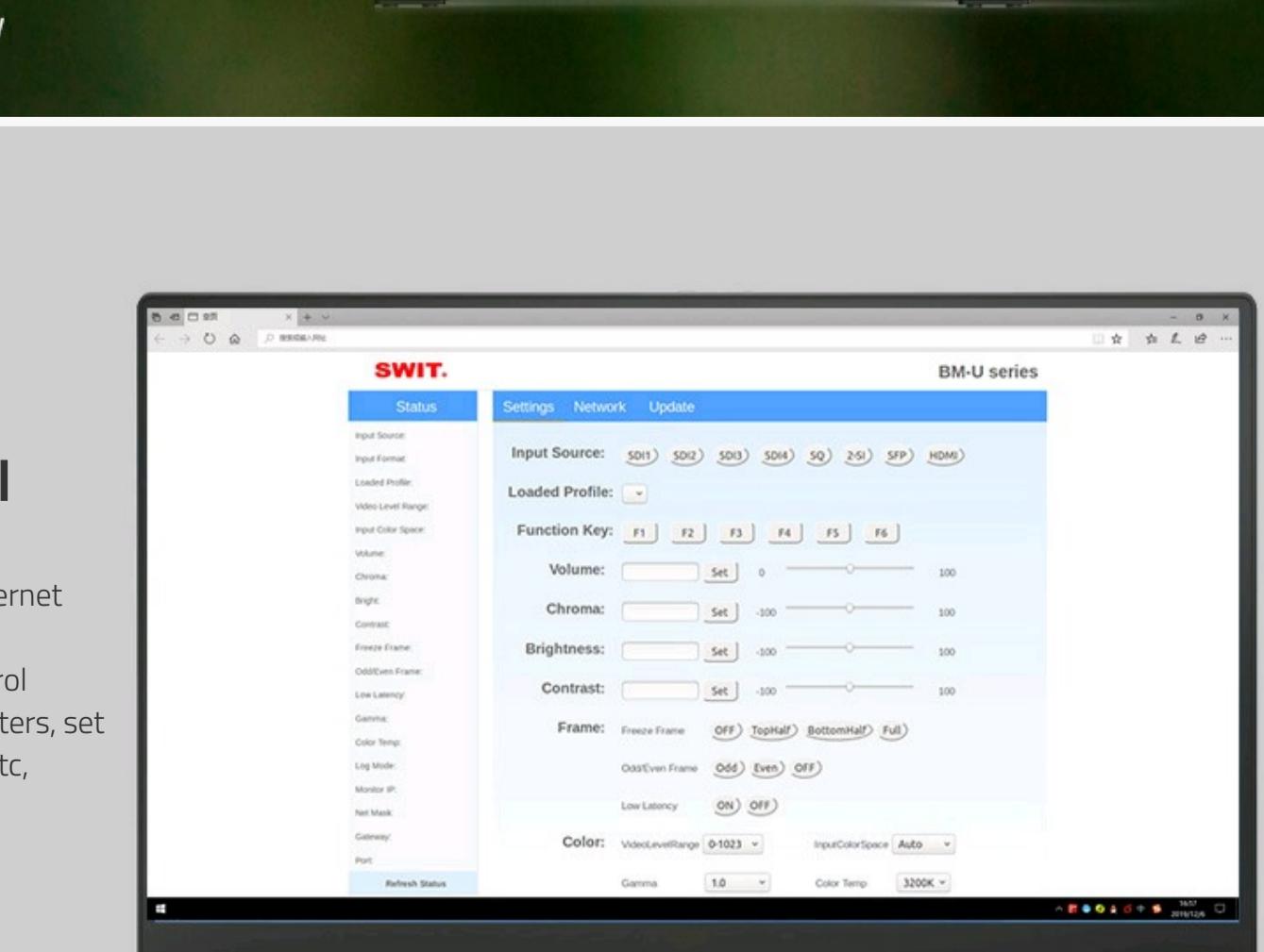
With built-in 3DLUT calibration software, (software copyright) support X-rite i1 and JETI Specbos 1211 probes to directly connect with the monitor USB port. The monitor generates color patterns and the color probes read the color, send color info to monitor via USB. Then the monitor compares the color difference and generate 3DLUT and calibrate itself automatically.

Calibration time: X-rite i1 15min, Specbos 1211 45min

Calibration result: ΔE≤1.0



Good Quality Poor Quality

**Multi CG & EOTF Viewing**

Supports 1 input source copied to 4 windows and display different HDR/SDR and color gamut simultaneously. You can get correct reference when producing HDR and SDR together.

**Eye Pattern**

Built-in eye pattern to check input video transmission quality via SDI cable, especially the 12GSDI quality.

+400mV +400mV

-400mV -400mV

Good Quality Poor Quality

+400mV +400mV

-400mV -400mV

SWIT®



BM-U245

23.8-inch 12GSDI 4K/8K HDR Monitor

Features

■ 23.8-inch UHD LCD

3840x2160 UHD native resolution IPS panel, 10bit 1.073G colors, 300nit backlight, 1000:1 contrast, H/V 178/178.

■ 18-bit Processing

Internal 18-bit signal processing.

■ 4K & 8K UHD Interfaces

12GSDI 4-in 4-out, supports Single link 4K, Quad link 4K and Quad link 8K inputs; HDMI 2.0 input, and 12GSDI via fiber input by optional SFP adaptor.

12G-SDI	3GSDI A	3GSDI B	12GSDI C	12GSDI D
HDMI 2.0	3GSDI C	3GSDI D	12GSDI C	12GSDI D

Single link 4K inputs

3GSDI A	3GSDI B	3GSDI C	3GSDI D
3GSDI C	3GSDI D	12GSDI C	12GSDI D

Quad link 4K inputs (2SI&SQD)

12GSDI A	12GSDI B	12GSDI C	12GSDI D
12GSDI C	12GSDI D	12GSDI C	12GSDI D

Quad link 8K inputs (2SI&SQD)
9 zones pixel-to-pixel zoom-in

■ Mixed inputs Multiviewer

4x independent 12G/6G/3G/HD-SDI or HDMI 1.3/1.4/2.0 mixed inputs multiview; Display waveform, vector, audio meters, EOTF, color gamut for each input.

12G/6G/3G/HD-SDI	12G/6G/3G/HD-SDI
12G/6G/3G/HD-SDI	12G/6G/3G/HD-SDI or HDMI

Mixed Multiviewing

■ HDR/Color Gamut selection, Payload ID auto setting

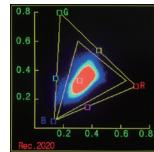
Gamma 1.0/1.8/2.2/2.4/2.6 or HLG/PQ/Slog3 HDR selection; BT.709, DCI-P3, BT.2020 selection; Payload ID auto set input range, color space, HDR/SDR, color gamut, color depth, etc.

■ Multi Color Gamut & EOTF Viewing

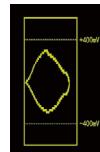
1 input source copied to 4 windows and display different HDR/SDR and color gamut simultaneously.

BT.2020 + HLG HDR	BT.709 + 2.4 SDR
DCI-P3 + PQ HDR	BT.2020 + S-log3 HDR

HDR/SDR simultaneously view



Color Gamut Pattern



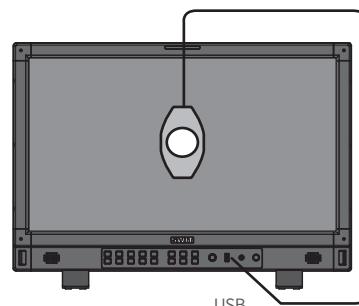
Eye Pattern

■ Zero Latency Processing

Less than 1/100 frame audio/video latency for 4K input sources, for special image processing mode for lip-sync monitoring.

■ 3DLUT Auto Self-Calibration

Built-in calibration software, supports X-rite i1 and JETI Specbos 1211 probes directly plug into monitor USB port to auto calibrate. Calibration time: X-rite i1: 15min; Specbos1211: 45min
Calibration result: $\Delta E < 1.0$



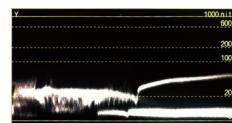
Built-in 3DLUT calibration software, Directly connect color sensor probe to monitor USB port, and the monitor will calibrate itself automatically.

■ Deleg 3DLUTs & User 3DLUTs Upload

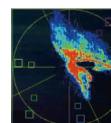
With built-in De-log LUTs including Log-C, S-log2, S-log3, C-log, V-log and RedLogFilm LUTs, to convert Log video to 709 SDR or HLG/PQ HDR. Support User 3DLUTs upload by USB.

■ Waveform/Vector/Histogram

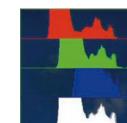
Support waveform (Y, Cb, Cr, R, G, B) and single line mode; support vector scope and R/G/B/Y histogram display, with multiple display position, size and color selection.



Y, Cb, Cr, R, G, B Waveform with nits



Vector scope



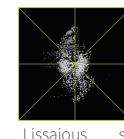
R/G/B/Y histogram



16-ch audio meters

■ Audio Patterns

Display up to 16-ch audio level meters, and select any 2 channels to output via 3.5mm socket or speakers; Support Lissajous and 5.1+2 surround patterns.



Lissajous



surround sound pattern

■ Others

Focus assist, R/G/B/mono, False color, Zebra, H/V delay, Freeze; 15:9, 14:9, 13:9, 4:3, 2.35:1, 2:1, 1.85:1 and User defined markers; Support TSL 3.1/4.0 UMD and text TALLY display; GPI control and webserver IP control, USB firmware updates.



- ◆ 4x12GSDI, 8K Input Ready
- ◆ HLG/PQ/S-log3 HDR
- ◆ Multi CG/EOTF viewing
- ◆ 3DLUT Self-calibration, dE<1.0

Video Formats

SDI 1/2/3/4 IN/OUT, SFP (Optional)

4096×2160p (60 / 59.94 / 50 / 30 / 29.97 / 25 / 24 / 23.98)
 3840×2160p (60 / 59.94 / 50 / 30 / 29.97 / 25 / 24 / 23.98)
 2048×1080p (60 / 59.94 / 50 / 30 / 29.97 / 25 / 24 / 23.98)
 2048×1080i (50 / 59.94 / 60)
 1080p (60 / 59.94 / 50 / 30 / 29.97 / 25 / 24 / 23.98)
 1080i (60 / 59.94 / 50)
 1080psf (30 / 29.97 / 25 / 24 / 23.98)
 720p (60 / 59.94 / 50)
 480i (59.94) 576i (50)

4K Quad-link SDI IN/OUT (each channel)

2048×1080p (60 / 59.94 / 50 / 30 / 29.97 / 25 / 24 / 23.98)
 1080p (60 / 59.94 / 50 / 30 / 29.97 / 25 / 24 / 23.98)

8K Quad-link SDI IN/OUT (each channel)

4096×2160p (60 / 59.94 / 50 / 30 / 29.97 / 25 / 24 / 23.98)
 3840×2160p (60 / 59.94 / 50 / 30 / 29.97 / 25 / 24 / 23.98)

HDMI IN

4096×2160p (60 / 59.94 / 50 / 30 / 29.97 / 25 / 24 / 23.98)
 3840×2160p (60 / 59.94 / 50 / 30 / 29.97 / 25 / 24 / 23.98)
 1080p (60 / 59.94 / 50 / 30 / 29.97 / 25 / 24 / 23.98)
 1080i (60 / 59.94 / 50)
 720p (60 / 59.94 / 50)

Specifications

Model		BM-U245
Display	LCD size	23.8 inches
	Resolution	3840×2160
	Aspect Ratio	16:9
	Color Depth	10bit 1.073G colors
	Signal Process	18bit
	Color Gamut	100% Rec709; 94.1% DCI-P3
	Viewing angle	H/V 178/178
	Backlight	LED
	Brightness	300nits
	Contrast	1000:1
Input	SDI	12G/6G/3G/HD-SDI × 4
	HDMI	HDMI 2.0 × 1
	UMD	RS485 × 1
	GPI (Tally)	RS485 × 1
	Ethernet	RJ45 × 1, 1000M
	USB	USB-A × 1 – 3DLUT & Firmware
Output	SDI	12G/6G/3G/HD-SDI × 4
	Analog audio	3.5mm headphone + Speaker
	UMD	RS485 × 1
General	AC Input	AC 100-240V 50/60Hz
	DC Input	DC 12-17V & V-mount plate
	Power	≤70W
	Working environment	0°C - +40°C; 10% - 90%
	Storage environment	- 15°C - + 60°C; 10% - 90%
	Dimensions	580.9×392.3×88.8mm
	Weight	8.87kg







