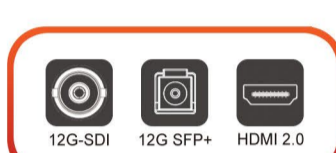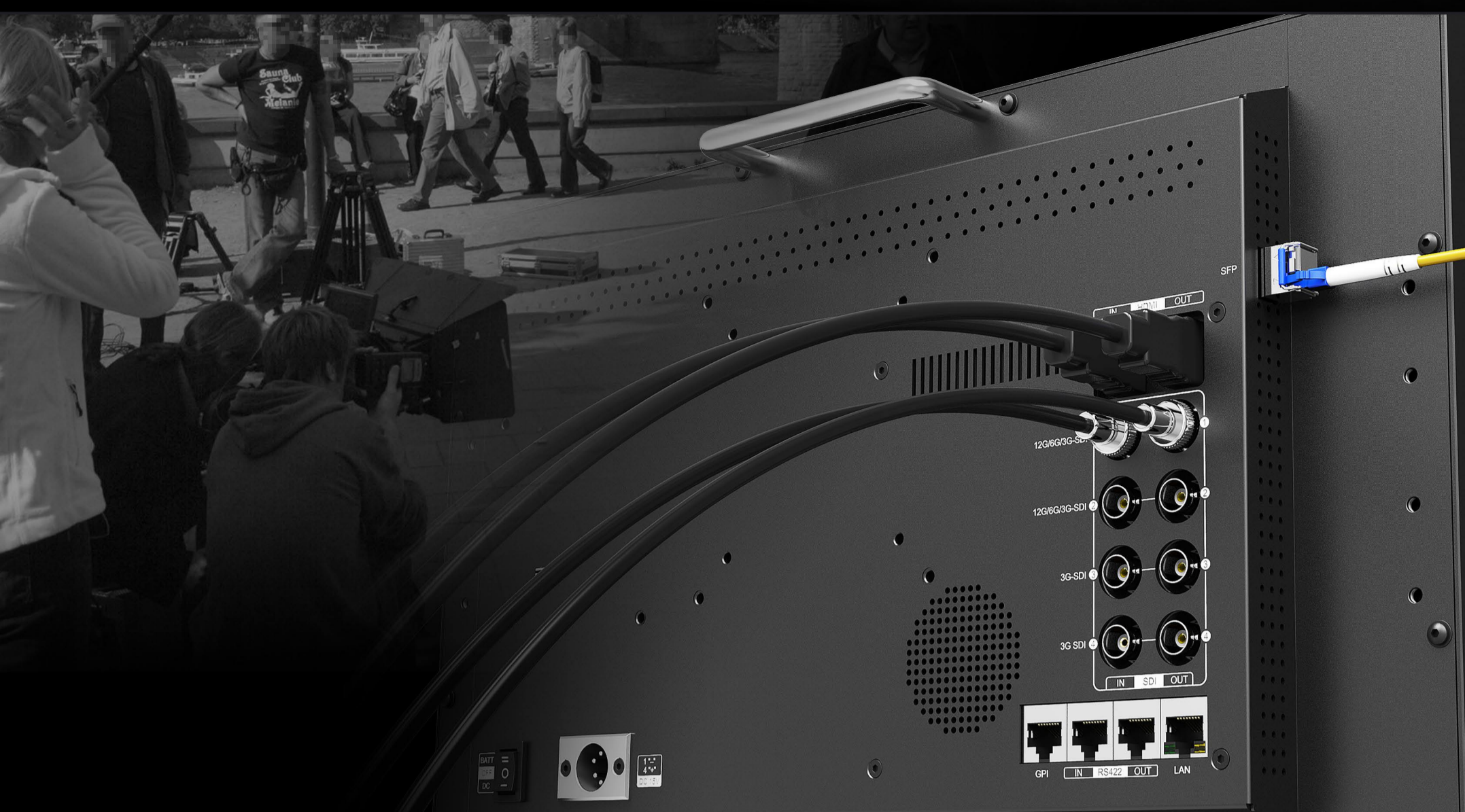# LILLIPUT®

# 12G-SDI
## Production / Broadcast Monitor

Broadcast / Production monitor for professional camcorder & DSLR
Application for taking photos & making movies.

Q31 — 31.5"
Q24 — 23.6"
Q23 — 23.8"
Q15 — 15.6"

## 12G-SDI / 4K HDMI Signal

12G-SDI, 4K HDMI, 12G SFP+ and other signal transmission methods are integrated into this display, to avoid being lost in the choice question for video signals.
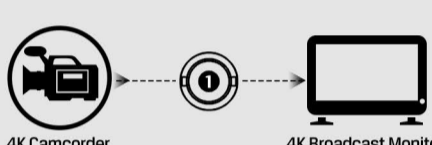
Equipped with 12G-SDI, 3G-SDI and HDMI 2.0 input/output interfaces, it can support up to 4096×2160 (60p, 50p, 30p, 25p,24p) & 3840×2160 (60p, 50p, 30p, 25p, 24p) signal.

12G SFP+ interface, which allows to transmit 12-SDI signal via SFP optical module, is suitable for most broadcast field.
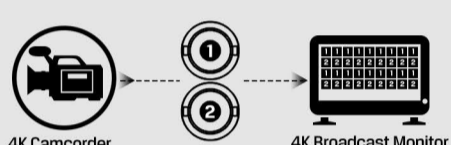
### 12G-SDI Single-Link
ST2082-10  1×12G-SDI
ST2081-10  1×6G-SDI
4K Camcorder → 4K Broadcast Monitor

### 12G-SDI Dual-Link
ST2081-11  2×6G-SDI
ST425-3  2×3G-SDI
4K Camcorder → 4K Broadcast Monitor

### 12G-SDI Quad-Link
ST425-3  4×HD-SDI
ST425-5  4×3G-SDI
Square Division (4K mode)
2 Sample Interleave (4K mode)
4K Camcorder → 4K Broadcast Monitor

## Accurate Color Calibration

A specific calibration to reproduce the colors of the image color space. Color calibration supports the PRO/LTE version of LightSpace CMS by Light Illusion.

4K  12G SDI

## Color Temperature

According to the different senses of the pictures, filmmaker have their own preferences for different color temperatures. The default is 3200K / 5500K / 6500K / 7500K / 9300K five color temperature conditions, can also be customized according to user needs.

## Gammas

Gamma redistributes tonal level closer to how our eyes perceive them. Since Gamma value is adjusted from 1.8 to 2.8, more bitswould be left to describe the dark tones where the camera is relatively less sensitive.

## Remote Control Application

Connect your computer to control the monitor via applications. The interfaces of RS422 In and RS422 Out can realize synchronization control of multiple monitors.

**LAN / RS422**
Select an appropriate port from LAN or RS422 to connect to the user's operating interface, allowing the application to identify the monitor before control.

**Picture**
Brightness, contrast, saturation, tint, sharpness, backlight and color temperature can be controlled in this pattern.

**Marker**
Skip the complex menu options and select necessary marker directly.

**Function**
Includes waveform, histogram, and other features in this pattern.

**Source**
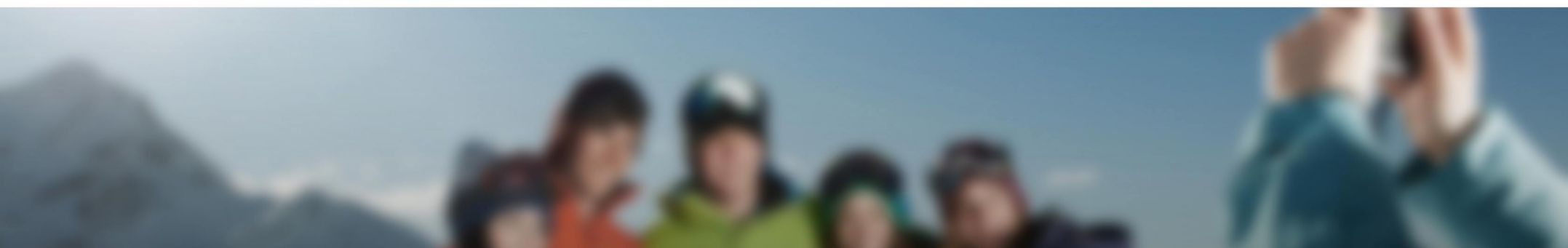Switch between four different SDI signals and single HDMI signal.

**Audio**
Any audio channel can be matched and control level meter and audio vector.

**UMD**
Control the color of Tally, as well as the text format of the UMD.

CAM1  CAM2  CAM3  CAM4

## Quad Split Multiview

In Quad-Split Multiview mode, any input signals can be selected and changed among 12G-SDI, 3G-SDI, HDMI2.0 and 12G-SFP+ Moreover,images can be differentiated with colorful borders to enhance the senses of monitoring.

The four images are allowed to select the input signal source separately, and cinematographers can also quickly switch between each input signal via physical buttons.

SINGLE  2SI  SQUARE  HDMI

In the mode of quad split multiview, user can select any one input signal for audio/sound output, for example, SDI, HDMI or SFP+.

## Audio Vector (Lissajous)

The Lissajous shape is generated by graphing the left signal on one axis against the right signal on the other axis. It used to test the phase of mono audio signal and phase relationships depends on its wavelength.Complex audio frequency content will make the shape look like a complete mess so it is usually used in post production.

**Audio in →**

Audio Vector

### WAVEFORM
Quickly and easily check under or over exposure as well as color and white balance issues on pictures.

### HISTOGRAM
A display that indicates how many of the pixels in a photo are at that given level of brightness.

### FALSE COLOR
An image that depicts an object in colors that differ from those a photograph (a true-color image) would show. Supports ARRI, RED False color.

### USER MARKERS
Adjusting the lines of four directions to shape any type of safety marker it can also weaken the sense of existence of the image outside the marker
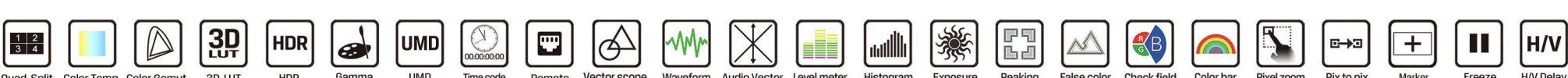
### PEAKING FOCUS
It highlights the areas that are in focus so you are able to quickly focus the camera and not miss crucial shots.

### EXPOSURE
Areas of the image over a certain threshold are filled with a striped pattern to dramatically highlight areas where too much light is falling on the image sensor

# Camera Auxiliary Functions
Povides plenty of auxiliary functions for taking photos and making movies, such as peaking, false color and audio level meter.
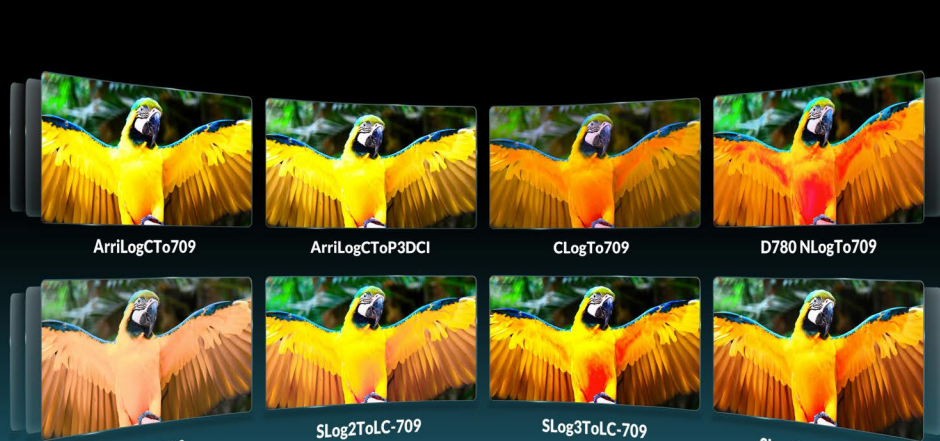
# HDR

**HDR OFF    HDR ON**

Inaccurate exposure, reduced image detail, unsatisfactory viewing experience.

Enjoy sharper images, greater detail and richer colors.

# 3D LUT

## HDR

When HDR is activated, the display reproduces a greater dynamic range of luminosity, allowing lighter and darker details to be displayed more clearly. Effectively enhancing the overall picture quality. Support ST2084 300 / ST2084 1000 / ST2084 10000 / HLG.

## 3D LUT

3D-LUT is a table for quickly looking up and output specific color data. By loading different 3D-LUT tables, it can quickly recombine color tone to form different color styles.
Built-in 3D-LUT, featuring 17 default logs and 6 user logs.

- VESA 75/100MM HOLES
- V-LOCK BATTERY PLATE
- POWER SWITCH
- 12-24V DC POWER
- SDI IN
- RS422 IN/OUT
- 12G SFP+
- HDMI 2.0 IN/OUT
- 12G/3G-SDI
- LAN IN

### Q15
51.4mm
393mm
267mm

### Q23/Q24
45.7mm
567mm
376.4mm

### Q31
47.4mm
717.5mm
454.7mm

## Easy-to-use

F1~F4 user-definable buttons to custom auxiliary functions as shortcut, such as peaking, underscan and checkfield. Use the Dial to select and adjust the value among of sharpness, saturation, tint and volume, etc.

### Base Mount
(Q15 / Q23 / Q24 / Q31)

### Gimbal Bracket
(Q15)

### Carrying Case
(Q15 / Q23 / Q24)

### Rack Mount
(Q15)

## SPECIFICATIONS

| | | Q15 | Q23 | Q24 | Q31 |
|---|---|---|---|---|---|
| **DISPLAY** | Panel | 15.6" | 23.8" | 23.6" | 31.5" |
| | Physical Resolution | | 3840×2160 | | |
| | Aspect Ratio | | 16:9 | | |
| | Brightness | 330cd/m² | 300cd/m² | 300cd/m² | 350cd/m² |
| | Contrast | 1000:1 | 1000:1 | 1000:1 | 1000:1 |
| | Viewing Angle | 176°/176°(H/V) | 178°/178°(H/V) | 178°/178°(H/V) | 178°/178°(H/V) |
| | HDR | | ST2084 300/1000/10000/HLG | | |
| | Supported Log formats | | SLog2 / SLog3 / CLog / NLog / ArriLog / JLog or User... | | |
| | Look up table (LUT) support | | 3D-LUT ( cube format) | | |
| | Technology | | Calibration to Rec.709 with optional calibration unit | | |
| **VIDEO INPUT** | SDI | | 2×12G, 2×3G (Supported 4K-SDI Formats Single/Dual/Quad Link) | | |
| | SFP | | 1×12G SFP+(Fiber module for optional) | | |
| | HDMI | | 1×HDMI 2.0 | | |
| **VIDEO LOOP OUTPUT** | SDI | | 2×12G, 2×3G (Supported 4K-SDI Formats Single/Dual/Quad Link) | | |
| | HDMI | | 1×HDMI 2.0 | | |
| **SUPPORTED FORMATS** | SDI | | 2160p 24/25/30/50/60, 1080p 24/25/30/50/60, 1080p/SF 24/25/30, 1080i 50/60, 720p 50/60... | | |
| | SFP | | 2160p 24/25/30/50/60, 1080p 24/25/30/50/60, 1080p/SF 24/25/30, 1080i 50/60, 720p 50/60... | | |
| | HDMI | | 2160p 24/25/30/50/60, 1080p 24/25/30/50/60, 1080i 50/60, 720p 50/60... | | |
| **Audio In/Out (48kHz PCM Audio)** | SDI | | 16ch 48kHz 24-bit | | |
| | HDMI | | 8ch 24-bit | | |
| | Ear Jack | | 3.5mm | | |
| | Built-in Speakers | | 2 | | |
| **REMOTE CONTROL** | RS422 | | In/out | | |
| | GPI | | 1 | | |
| | LAN | | 1 | | |
| **POWER** | Input Voltage | | DC 12-24V | | |
| | Power Consumption | ≤32.5W (15V) | ≤54W (15V) | ≤59W (15V) | ≤65W (15V) |
| | Compatible batteries | | V-Lock or Anton Bauer Mount | | |
| | Input voltage (battery) | | 14.8V nominal | | |
| **ENVIRONMENT** | Operating Temperature | | 0℃~40℃ | | |
| | Storage Temperature | | -20℃~60℃ | | |
| **OTHER** | Dimension(LWD) | 393 × 267 × 51.4mm | 567 × 376.4 × 45.7mm | 567 × 376.4 × 45.7mm | 717.5 × 454.7 × 47.4mm |
| | Weight | 2.93kg | 7.4kg | 7.4kg | 12kg |

Note: Due to constant effort to improve products and product features, specifications may change without notice.

## ACCESSORIES

### STANDARD
- 15V DC Adapter
- VESA Mount Plate
- Battery Plate
- Base Bracket
- USB Flash Disk

### OPTIONAL
- Gimbal Bracket (Q15)
- Carrying Case + Sunshade (Q15 / Q23 / Q24)
- Rack Mount Bracket (Q15 / Q23 / Q24)
- Acrylic Screen Protector
- SFP Optical Fiber Module (Q15 / Q23 / Q24)