# LM7109
## 9" ENG SD/HD/3G Monitor

**LED** **IPS**
IPS (In-Plane Switching) technology improves viewing angles and colour reproduction, while LED backlight features better uniformity and lowers consumption.

**DVI-I** **HDMI**
DVI-I and HDMI inputs, included by default, provide direct connection with compatible cameras, multiviewers, PCs and analogue component video signals.

**SD**
**COMPOSITE PAL/NTSC/SECAM** **HD** **3G**
The SD-SDI input is active by default, and the rest of video inputs (composite and HD/3G-SDI), are optional and lisence activated.

Audio monitoring is possible thanks to the different input options (analogue and SDI-embedded) and outputs (analogue, digital, headphones and stereo built-in speakers), as well as the configurable 1 dB precission vu-meters.

New tools have been developed to assist in the signal monitoring, such as independent waveforms for Y, Cb and Cr, vectorscope and histogram, as well as the "false colour" function.

**IMD**
High resolution dynamic in-monitor displays (IMD) are available on-screen. Additionally, the tally info (on screen or lamp) can be received serially or through contact closure.

Camera 1

Portable 9" with superb colorimetry and viewing angles

## MAIN FEATURES

- 1280x768 resolution
- DVI-I and HDMI inputs
- Composite i/o (by menu)
- 2x SD/HD/3G-SDI inputs with active loop
- Composite, SD-SDI and HD/3G-SDI inputs activated by password
- Tri-colour tally
- Waveform, vectorscope, histogram
- False colour tool
- In-monitor display
- Audio i/o and VU-meters
- Built-in speaker
- PiP and PbP
- LTC, VITC and VITC2
- Remote control
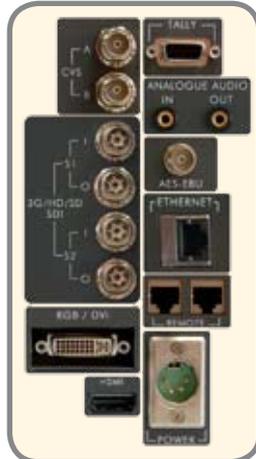
## SPECIFICATIONS

| LCD Panel | | |
|---|---|---|
| Size | | 9" (16:9 native) |
| Resolution | | 1280x768 |
| Active Area | | 195x113.4mm |
| Viewing Angle | | 178° H/V |
| MTTF | | 50,000 Hours |
| Brightness | | 400 cd/m² |
| Contrast | | 900:1 |
| Response Time | | 8 ms |
| **Inputs** | | |
| DVI | Connector | DVI-I |
| | YPbPr | 1080i (60,59.95, 50), 576@50i, 480@60i |
| | RGB (VGA) | 640x480, 800x600, 1024x768, 1280x1024, 1600x1200 |
| | DVI Graphic mode | 640x480 (60/50), 800x600 (60/50), 1024x768 (60/50), 1280x720(60),1280x1024 (60/50), 1360x768 (60/50), 1366x768 (60/50), 1920x1200 (60/50) |
| | DVI Video mode | 1920x1080(50i, 60i, 50p, 60p) |
| HDMI | | 640x480(60/50), 800x600(60/50), 1024x768(60/50), 1280x720(60),1280x1024(60/50), 1360x768(60/50), 1366x768(60/50), 1920x1200(60/50) |
| | | 1920x1080(50i, 60i, 50p, 60p) |
| Composite | Connector | 2xBNC or 1xBNC (selectable by menu) |
| | SMPTE 170M | PAL/NTSC/SECAM |
| SD/HD-SDI/3G | Connector | 2xBNC |
| | SMPTE-259M | 576i@50, 480i@60 |
| | SMPTE-296M | 720p(60/59.94/50) |
| | SMPTE-274M | 1080p(30/29.97/25/24/23.98), 1080sF(24/23.98), 1080i(60/59.94/50) |
| | SMPTE-260M | 1035i(60/59.94) |
| | SMPTE-424M | 1080p(60/50) |
| Audio | | SDI embedded audio |
| | | Analogue audio (Jack connector) |
| In-Monitor display | | RJ-45 Connector |
| Remote control | | Ethernet |
| Tally | | SUB-D9 Connector (contact closure and voltage) |
| | | Connector RJ-45 (serial protocol) |
| LTC, VITC, VITC2 | | SDI embedded |
| **Outputs** | | |
| Composite | | 1xBNC (selectable by menu) |
| SD/HD/3G-SDI | | 2xBNC (active loop) |
| Audio | | 2x Analogue audio (Jack connector), front and rear |
| | | AES-EBU (BNC Connector) |
| | | Speaker (2 W) |
| | | VU-meters |
| Tally | | On-screen |
| | | Lamp |
| In-Monitor display | | RJ-45 connector |
| **General** | | |
| Dimensions | | 222 x 177.5 x 85.5 mm |
| Weight | | 1.5 Kg |
| Power | | Battery |
| | | External PSU 110-240 VAC |
| Power consumption | | 23 W |
| Model # | | **LM7109A12S:** Sony battery adaptor |
| | | **LM7109A12A:** A. Bauer battery adaptor |
| Accesories | | **LM7109X80:** rack mounting kit |
| | | **MS2305X50:** desktop mount |
| | | **AC1200X01:** transport bag with sun hood and rain cover |
| Activations | | **LM7000X07:** composite video inputs |
| | | **LM7009X08:** HD/3G option |

## FRONT AND REAR VIEWS

## REAR INPUTS

TALLY
CVS
ANALOGUE AUDIO IN OUT
AES-EBU
3G/HD/SD SDI
ETHERNET
RGB / DVI
REMOTE
HDMI
POWER

## ACCESORIES

Rack mount

Desktop mount

Transport bag with raincover

**RETRACTABLE HANDLE**

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