

# 3G/HD/SD-SDI 5.7” LCD Monitor Tester with HDMI Output

## HD-LCD57-HDMI



This device offers the highest compatibility among SDI, including 3G/HD/SD formats. It also supports composite (NTSC/PAL) input. With the embedded advanced de-interlacer, interlaced video inputs, such as SD-SDI or composite, can be further improved. For SDI, **HD-LCD57-HDMI** 3G can display up to 8 channel audio bars to indicate the embedded digital audio channel in SDI stream.

**HD-LCD57-HDMI** is especially designed to ease the SDI security monitoring with affordable cost. The handy SDI monitoring includes CRC status, SMTPE 352M indicator, audio bars, EDH, video format detection, and Sync status etc. With versatile IR remote control and push buttons, **HD-LCD57-HDMI** offers a very easy way to control the display layout and status demonstration.

## Features

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- Up to 8 SDI channel audio bar display
- Built-in advanced scaler to scale up and down the input to fit on screen
- Advanced video processing supports: noise reduction, color management, fleshtone control, dynamic contrast control, closed caption support for CVBS, 3-D de-interlacing, 3:2/2:2 pull down detection and recovery.
- RS-232 Firmware upgradable to guarantee the functionality revised
- Supports two up to 3G SDI loop-outs
- Versatile IR control ; Push button control
- Wall-mounting ear for easy installation
- 5V DC



**Please read the Manual before attempting to use this product.**

*Specifications and appearance are subject to change without notice.*



## CAUTION

RISK OF ELECTRIC SHOCK  
DO NOT OPEN!



TO REDUCE THE RISK OF ELECTRICAL SHOCK,  
DO NOT OPEN COVERS (OR BACK).  
NO USER SERVICEABLE PARTS INSIDE.  
REFER SERVICING TO QUALIFIED  
SERVICE PERSONNEL.



**Disposal of Old Electrical & Electronic Equipment (Applicable in the European Union and other European countries with separate collection systems).**

This symbol on the product or on its packaging indicates that this product shall not be treated as household waste. Instead it shall be handed over to the applicable collection point for the recycling of electrical and electronic equipment. By ensuring this product is disposed of correctly, you will help prevent potential negative consequences for the environment and human health, which could otherwise be caused by inappropriate waste handling of this product. The recycling of materials will help to conserve natural resources. For more detailed information about recycling of this product, please contact your local city office, your household waste disposal service or the shop where you purchased the product.



## Caution

The **HD-LCD57-HDMI LCD Monitor** has been tested for conformance to safety regulations, requirements and has been certified for international use. However, like all electronic equipment, the **HD-LCD57-HDMI** should be used with care. Please read and follow the safety instructions to protect yourself from possible injury and to minimize the risk of damage to the unit.

### 1. Handle this product with care

Avoid any shock or bumping of the product. Improper handling could damage the product. Do not handle the unit with wet hands. Provide proper ventilation and air circulation and do not use near water.

### 2. Requires a proper operating environment

This product is not waterproof and is designed for indoor use. The allowable temperature range for operation of this product is between 32°F-104°F / -0°C-40°C.

### 3. Check the power source voltage

The power source voltage should be within the specified range. (Product must meet the specifications).

#### 4. Objects and liquid entry

Never push objects of any kind into this product as this may touch dangerous voltage points of short out parts that could result in a fire or electric shock. Never spill any kind of liquid on the product. Keep away the objects that might damage the device and assure that the placement of this unit is on a stable surface.

#### 5. Cleaning

Do not use liquid or aerosol cleaners to clean this unit. Always unplug the power to the device before cleaning.

#### 6. Servicing

Do not attempt to service this product by yourself as opening or removing covers may expose you to dangerous voltage or other hazards. Refer all service to qualified servicing personnel.

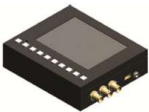
### Package Contents

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1. One (1) 5.7" LCD Monitor Tester
2. One (1) 5V DC, 4A Interlocked Power Adapter
3. One (1) IR Remote Control
4. Two (2) 75 ohm terminator
5. One (1) RCA to BNC connector
6. One (1) User Manual

1.



2.



3.



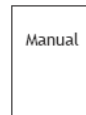
4.



5.



6.



For any returns, please include all components listed above with original packaging in **Resalable Condition**. **Absolutely No Returns** will be accepted if any component is missing/damaged.

Left Side View:

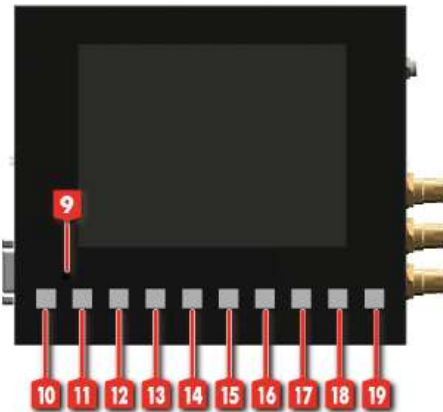


Right Side View:



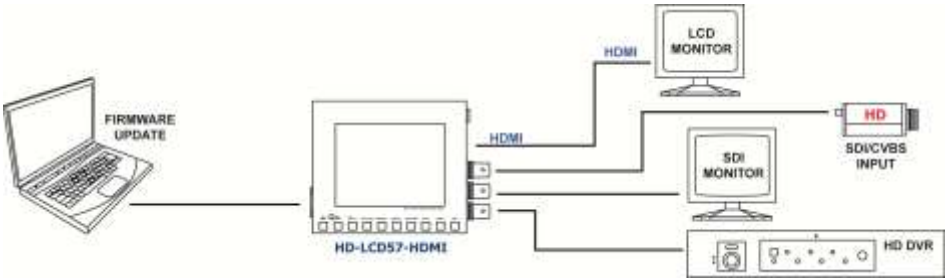
1. **DIO:** Reserved
2. **Dip Switch:** Mode setting
3. **RS-232:** Serial control
4. **SDI BNC loop-out connectors:** SDI loop outs
5. **SDI BNC input connector:** Input SDI/CVBS
6. **Power LED:** Indicate power up and signal lock
7. **HDMI:** HDMI loop out
8. **5V 4A DC power jack**

Top View:



9. **IR:** Remote control
10. **Menu:** OSD Menu
11. **Down/Left:** OSD up or left operations
12. **Up/Right:** OSD down or right operations
13. **Enter/Mode:** OSD selection or zoom/pan
14. **INC+:** Zoom in or move the center of zoomed video to left or up
15. **DEC-:** Zoom out or move the center of zoomed video to right or down
16. **Display:** Display mode selection
17. **Status:** SDI status indicator
18. **Source:** SDI/CVBS selection
19. **Reset:** Reset error flags of SDI status indicator

## Application Diagram



## Hardware Installation

Connect your SDI/CVBS video sources to the input connectors.

1. Connect your HDMI enabled monitors into the device's HDMI output port.
2. Power up the device.

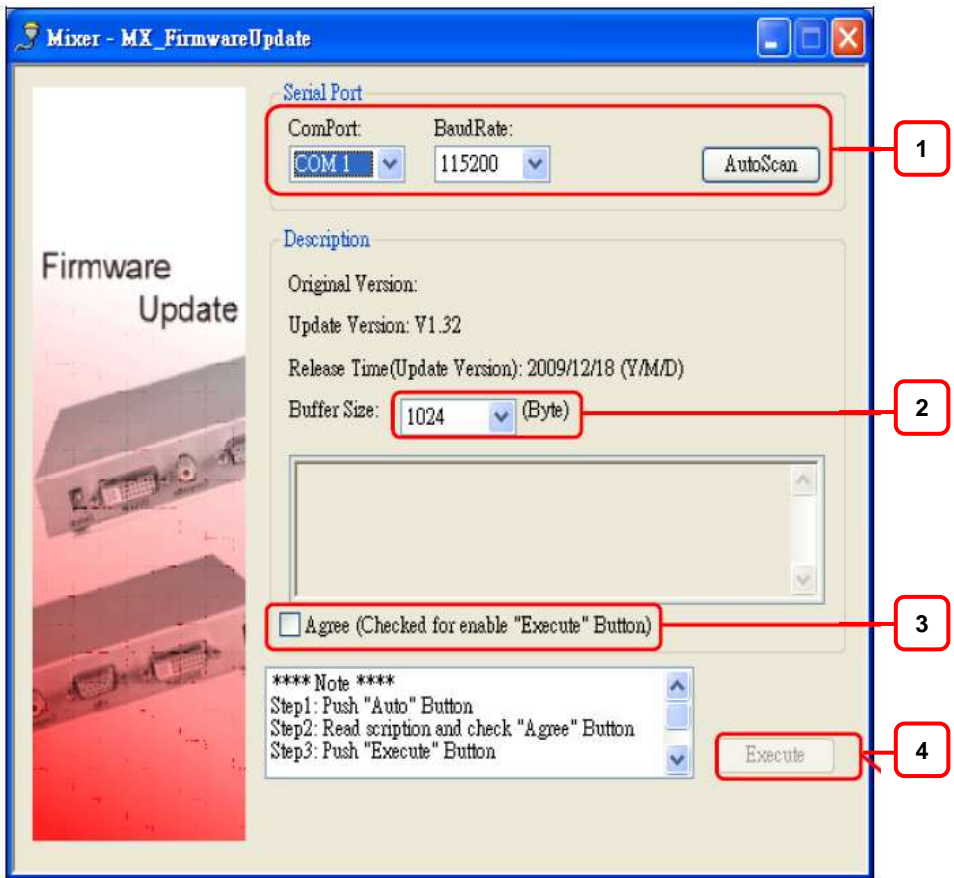
## Bottom DIP Switch:

Switch Position		
Input 1	Normal	Reset
Input 2	Normal	Reset

## Default Settings

1. Power up the device.
2. To reset the device back to its factory default setting, push DIP switch 1 and 2 from OFF to ON. You NEED to push the DIP switch back to OFF in order to get the device to work normally.

## Software Interface



**1 ComPort Settings:**  
Select ComPort of PC connected to the device. Push “auto scan” to start the automatic scan on each ComPort.  
Default Baud Rate is 115200.

**2** 1024 bytes as the default.

**3** Please check all the power and serial port connection to avoid any further unexpected damages during firmware update. Check “**Agree**” to enable the firmware update procedure.

**4** Execute firmware update.

## Window Messages



The connection is not correct.

Please check:

- Power
- Cable
- Baud Rate

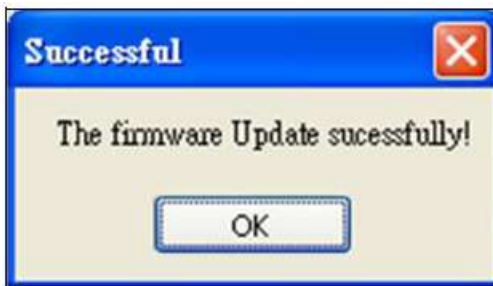


The whole firmware update procedure fails. Please check:

- Power
- Cable
- Baud Rate



The firmware update procedure requires a power cycle. Please turn off the device, wait for a couple of seconds, and power on the device.



Congratulations. The whole process is successfully completed!

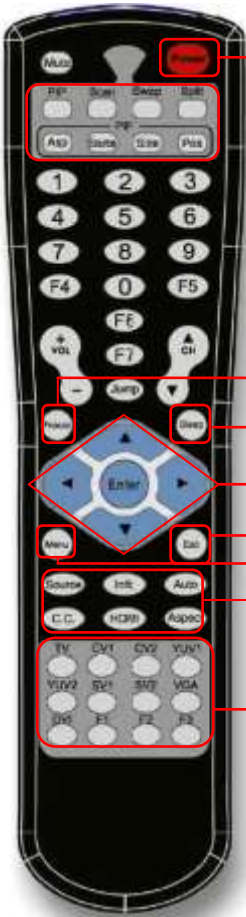
## Technical Specifications

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<b>Model</b>	<b>HD-LCD57-HDMI</b>
<b>LCD Size</b>	5.7" (diagonal)
<b>LCD Resolution</b>	640x480
<b>LCD Color Depth</b>	18 bit RGB
<b>Composite Bandwidth</b>	13.5MHz
<b>Audio Support</b>	Up to 8 CH decoding and audio bar display
<b>SDI Support</b>	SD/HD/3G
<b>Input</b>	1 x SDI [CVBS]
<b>Output</b>	2x SDI [Loop out]
<b>Audio FS Support</b>	48KHz
<b>ESD Protection</b>	[1] Human body model — $\pm 19\text{kV}$ [air-gap discharge] & $\pm 12\text{kV}$ [contact discharge] [2] Core chipset — $\pm 2\text{kV}$
<b>PCB Stack-up</b>	6-layer board [impedance control — differential 100 $\Omega$ ; single 50 $\Omega$ ]
<b>IR Remote Control</b>	Electro-optical characteristics: $\tau = 25^\circ$ / Carrier frequency: 38kHz
<b>HDMI Connector</b>	HDMI type A
<b>RS-232 Connector</b>	DE-9 [9-pin D-sub female]
<b>BNC Connector</b>	75 $\Omega$ inter-locked socket
<b>DIP Switch</b>	Restore default
<b>Fixedness</b>	Wall-mounting case with screws
<b>Power Adapter</b>	Interlocked 5V 4A DC
<b>Power Consumption</b>	10 Watts [max]
<b>Operation Temp</b>	32°F~104°F / 0°C~40°C
<b>Storage Temp</b>	-4°F~140°F / -20°C~60°C
<b>Relative Humidity</b>	20~90% RH (no condensation)
<b>Housing</b>	Metal enclosure
<b>Dimensions (LxWxH)</b>	6.8" x 5.8" x 1.8" / 172 x 148 x 46 mm
<b>Weight</b>	2.2 lbs / 1000g

\*Specifications are subject to change without notice





Idle

Source: *No usage for this model*  
Info: Display input type and time  
Auto: *No usage for this model*  
C.C.: *No usage for this model*  
HDMI: *No usage for this model*  
Aspect: Aspect ratio change

Freeze Video

Sleep ON

Menu Control Buttons

Exit OSD

Menu ON

TV: *No usage for this model*  
CV1: CVBS  
CV2: *No usage for this model*  
YUV1: *No usage for this model*  
YUV2: *No usage for this model*  
SV1: *No usage for this model*  
SV2: *No usage for this model*  
VGA: *No usage for this model*  
DV1: SDI  
F1: *No usage for this model*  
F2: Input timing information  
F3: Auto Color Balance

### **LIMITED ONE (1) YEAR WARRANTY AND EXCLUSIONS**

Manufacturer warrants to the original consumer purchaser and not for the benefit of anyone else that this product at the time of its sale by Manufacturer is free of defects in materials and workmanship under normal and proper use for one (1) year from the purchase date. Manufacturer's only obligation is to correct such defects by repair or replacement, at its option, if within such one (1) year period the product is returned prepaid, with proof of purchase date, and a description of the problem. This warrant excludes and there is disclaimed liability for labor for removal of this product or reinstallation. **This warranty is voided if this product is installed improperly or in an improper environment, overloaded, misused, opened, abused, or altered in any manner, or is not used under normal operating conditions or not in accordance with any labels or instructions. There are no other implied warranties of any kind, including merchantability and fitness or a particular purpose, but if any implied warranty is required by the applicable jurisdiction, the duration of any such implied warranty, including merchantability and fitness of or a particular purpose, is limited to one (1) year. Manufacturer is not liable for incidental, indirect, special, or consequential damages, including without limitation, damage to, or loss of use of, any equipment, loss sales or profits or delay or failure to perform this warranty obligation.** The remedies, provided therein are the exclusive remedies under this warranty, whether based on contract, tort or otherwise.

## Appendix - Supported Resolution

[SDI-IN] Socket :

Supported Mode	Resolution
(SDTV) 625i	625i @50Hz
(SDTV) 525i	525i @59.94Hz
(HDTV) 720p	1280x720 @50Hz
(HDTV) 720p	1280x720 @59.94Hz
(HDTV) 720p	1280x720 @60Hz
(HDTV) 1080i	1920x540 @50Hz
(HDTV) 1080i	1920x540@59.94Hz
(HDTV) 1080i	1920x540 @60Hz
(HDTV) 1080p	1920x1080 @25Hz
(HDTV) 1080p	1920x1080 @30Hz
(3G) 1080p	1920x1080 @50Hz
(3G) 1080p	1920x1080 @59.94Hz
(3G) 1080p	1920x1080 @60Hz

Dialog 1 -SDI Information

□□: □□: □□ [System timer]  
EDH error number and error rate [SD only]  
CRC error number and error rate  
SDI input total width and height  
SDI input active width and height  
SDI input format

Dialog 2 - SDI SYNC information

EDH Status:  
Frame CRC error  
Active picture CRC error  
General error 1  
General error 2  
SYNC Status:  
SAV error  
SAV 3G error  
EAV error  
EAV 3G error  
SMTPE 352M Bytes:

Dialog 3 - SDI Video Information

Chroma Status:  
1. ANC 3G checksum error.  
2. ANC checksum error.  
3. 3G CRC error.  
4. CRC error.

Luma Status:  
5. ANC 3G checksum error.  
6. ANC checksum error.  
7. 3G CRC error.  
8. CRC error.  
9. Line number error

### SD/HD3G-SDI 1x2 Distribution Amplifier & Extender HD-SDE-122

This Economical device is a reliable video device splitting a SDI or HD-SDI video source to four HD-SDI or SD-SDI display at the same time. Receives one SDI input, perfectly duplicates it, then it re-transmits, for real time multi-viewing.



### SD/HD3G-SDI 1x2 Repeater & Distribution Amplifier with Re-clocking Function HD-SDE-122R

This device is the same as the Economical type but It takes one input then re-clocks and equalizes the signal and distributes it to two identical outputs.



### Mini SD/HD/3G Pattern Generator Tester with Serial Control HD-PG-RS232

This device is an advance SDI pattern generator with multi-format (3G/HD/SD) and multi-pattern support. It offers the most common patterns, SMPTE color bars and checkfield, for SDI testing.



### 3G/HD/SD-SDI Pattern Generator Tester with HDMI Input HD-PG-HDMI

This device is an advance SDI pattern generator with multi-format (3G/HD/SD) and multi-pattern support. It offers the most common patterns, SMPTE color bars and checkfield, for SDI testing thru front panel buttons.



FC CE  RoHS MADE IN TAIWAN

