datavideo®

TLM-170G 17.3" 3G-SDI TFT LCD MONITOR

| SDI | HDMI-1 | HDMI-2 | BLUE | PATTERN | ▲ UP | MENU | ASPECT | MUTE |
| YUV | S | CV1 | CV2 | PIP | ▼ DOWN | ENTER | └─ VOL ─┘ | |

POWER HEADPHONE

17.3" 3G-SDI TFT LCD MONITOR

TLM-170G

Quick Start Guide

Warranty

Standard Warranty

Datavideo equipment is guaranteed against any manufacturing defects for one year from the date of purchase.

The original purchase invoice or other documentary evidence should be supplied at the time of any request for repair under warranty.

Damage caused by accident, misuse, unauthorized repairs, sand, grit or water is not covered by this warranty.

All mail or transportation costs including insurance are at the expense of the owner.

All other claims of any nature are not covered.

Cables & batteries are not covered under warranty.

Warranty only valid within the country or region of purchase.

Your statutory rights are not affected.

Two Year Warranty

All Datavideo products purchased after 01-Oct.-2008 qualify for a free one year extension to the standard Warranty, providing the product is registered with Datavideo within 30 days of purchase. For information on how to register please visit www.datavideo-tek.com or contact your local Datavideo office or authorized Distributors

Certain parts with limited lifetime expectancy such as LCD Panels, DVD Drives, Hard Drives are only covered for the first 10,000 hours, or 1 year (whichever comes first).

Any second year warranty claims must be made to your local Datavideo office or one of its authorized Distributors before the extended warranty expires.

Disposal

For EU Customers only - WEEE Marking.

This symbol on the product indicates that it will not be treated as household waste. It must be handed over to the applicable take-back scheme for the recycling of electrical and electronic equipment. For more detailed information about the recycling of this product, please contact your local Datavideo office.

TLM-170G Model Types

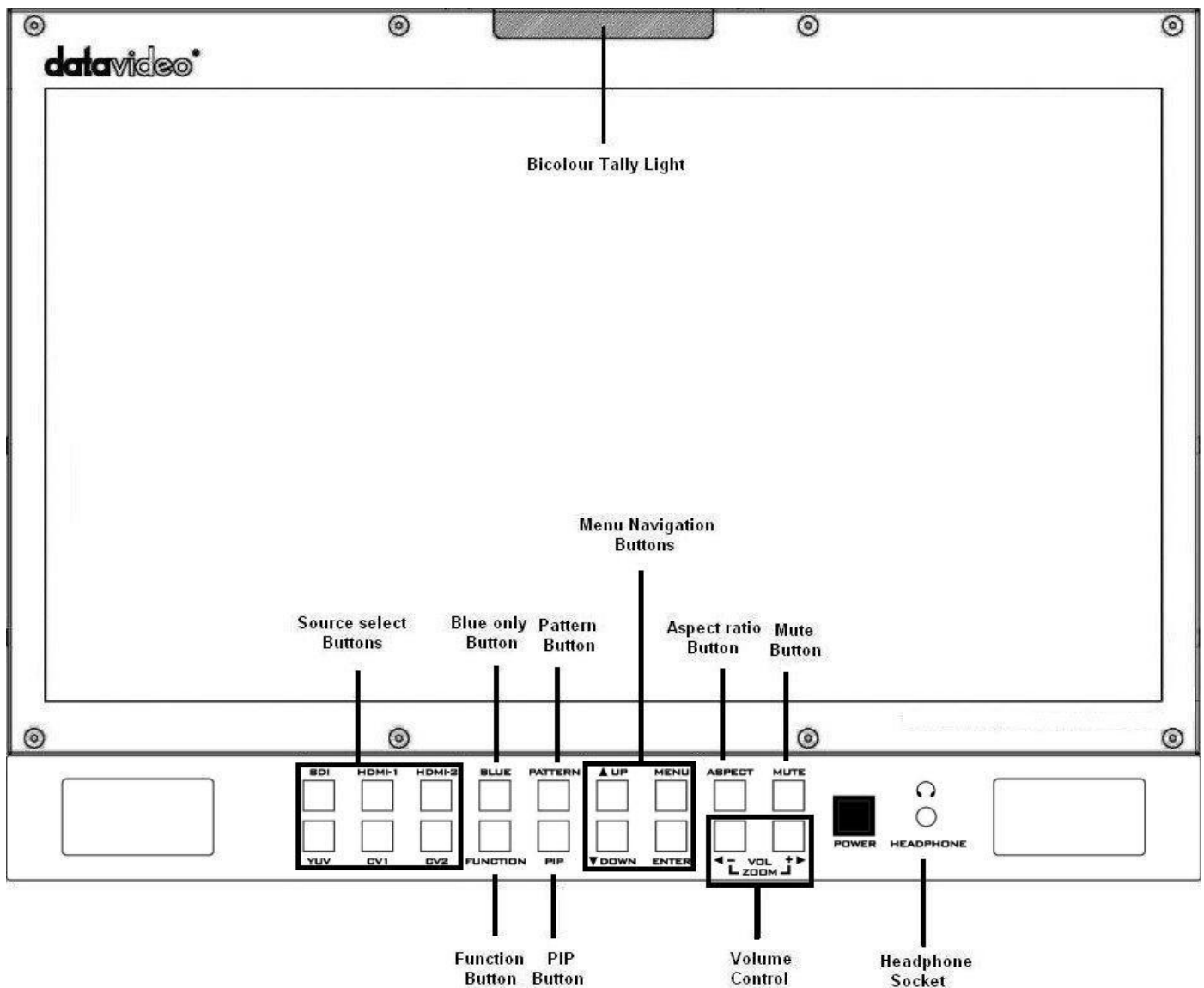| Model	TLM-170G	TLM-170GR	TLM-170GM
Image			
System	Desktop	7U rack mount	1U mobile tray rack mount

Packing List

1 x Accessory Note

1 x TLM-170G

1 x TLM-170G Series Instruction Manual

Front Panel

Bi-Colour Tally Light: To indicate Live (Red) or Cued (Amber) source.

Source Select Buttons: Select SDI, HDMI, YUV or CV; The active input will be indicated by a red LED on the Source Button.

BLUE: Blue only: remove the red and green component of input signals. This allows adjustments of chroma and phase. (Phase adjustment is effective with NTSC signals).

Function: Zoom the SDI-HD video source
* See **Pixel ZOOM** for more details.*

Pattern Button: Display SMPTE 75% Colour Bars

PIP Button: Activates Picture in Picture Mode

Menu Navigation Buttons: Display and navigate set up menus - *See Menu Options for more details.*

Aspect Ratio Button: Sets the Aspect Ratio to 16:9 / 4:3

Mute Button: Mutes the audio from the internal speakers or headphone socket.

Volume Control: Adjusts the speaker / headphone volume up / down.

Headphone Socket: 3.5mm headphone socket; internal speaker circuit will automatically mute when headphones are connected.

*N.B. Main Power On/Off switch is located on the rear of the TLM-170G.*

Pixel ZOOM

This function magnifies the incoming source to fill the screen. This is strictly a zooming function and does not alter the native aspect ratio of the source to fill the screen. When viewing a 4:3 source in Zoom mode on a 16:9 display the aspect ratio of the visible video will remain 4:3 though the entire 16:9 screen will be filled.

* ZOOM must be HD mode (above 720P resolution) can be active. If the source is not HD, Zoom cannot work.

Feature Navigator

Once assigned to a **FUNCTION** button this feature allows you to toggle the Pixel Zoom feature on/off in OSD. When turned on this feature generates a positionable and resizable rectangle on screen. The rectangle may be moved left or right using the **VOL + /- ZOOM** key and up or down using the up/down key. The **FUNCTION** key may be used to change the size of the onscreen rectangle. Using these adjust keys you can select any area on screen and then press down on the **ENTER** key to zoom to the selected area. This pixel zoom feature is designed to work with any HD / **SD** signal. A Flashing Tally light or **FUNCTION key's light** will be activated on your monitor whenever you are in a zoomed mode. To exit the mode simply press down on the MENU key once more. To exit the Pixel Zoom feature entirely simply press the MENU button assigned to this feature once more.

Rear Panel
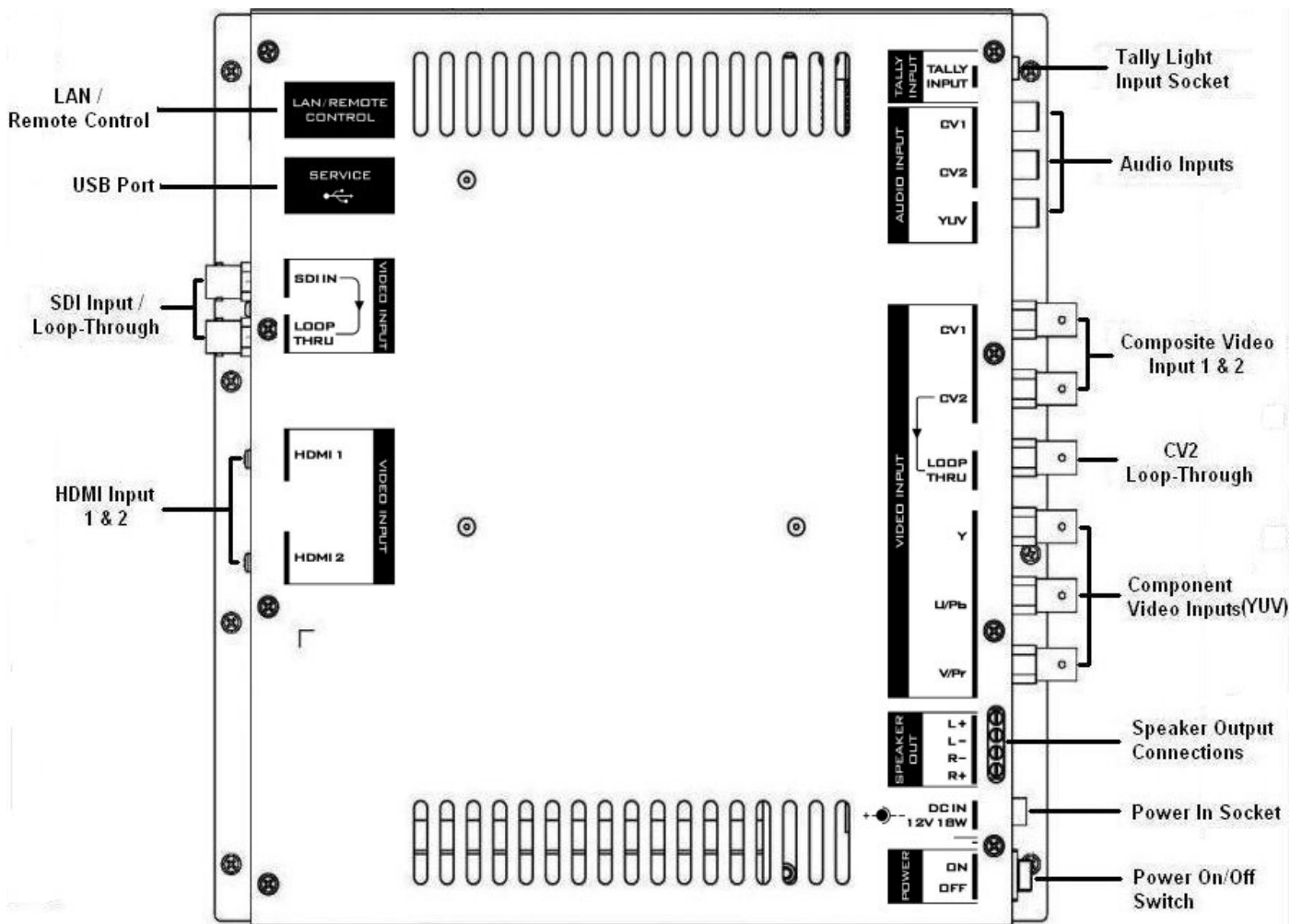
LAN Remote Control: Use a crossover Ethernet cable for direct connection between TLM-170G and the PC RJ-45 port.

USB Port: For firmware updates only. See Firmware Update section for more details. *See **Firmware Update** for more details.*

SDI Input & Loop Through: BNC Input for HD / SD SDI with a loop through output.

HDMI Input - Video and Audio input from HDMI.

3.5mm Tally Light Input: Tally light information can be supplied to the TLM-170G from the Datavideo RMC-140, TB-5 or TB-10 via this socket.

Analog Audio Inputs: Mono audio inputs to correspond to the analog video inputs (CV 1 & CV 2).

**Composite Video Inputs 1 & 2:** BNC connectors for composite video with one loop through output.

Component Video Input: BNC connectors for Component (YUV (Y/R-Y/B-Y)) Video.

Speaker Output Connections: Speaker Output connections Max 5v p - p (2w)

DC In Socket: 2.1mm In Line Power Socket with screw lock, for connecting the suitable 12v 18W feed.

On / Off Switch: Main on / off switch, switches the TLM-170G on and off.

Menu Options
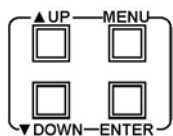
The TLM-170G is set up via on screen menus. To display the on screen menu press the MENU button.
The menus are navigated using the Up / Down buttons.
Press Enter button to into or exit the setting mode.

MAIN ADJUST

You can choose:

BRIGHTNESS	0~100
CONTRAST	0~100
SHARPNESS	0~100
SATURATION	0~100
TINT	0~100
BACK LIGHT	0~100
3D COMB	DISABLE / ENABLE
NR	HIGH / MID / LOW / OFF
MPEG NR	HIGH / LOW / OFF
DLC	DISABLE / ENABLE
VOLUME	0~100
EXIT	

3D COMB is for video noise suppression.
NR is for video noise reduction.
MPEG NR is for MPEG format noise reduction.
DLC is for Dynamic luminance control

COLOR ADJUST

You can choose: 6500

RED
GREEN
BLUE
EXIT

9300

RED
GREEN
BLUE
EXIT

7500

RED
GREEN
BLUE
EXIT

USER COLOR

RED
GREEN
BLUE
EXIT

SCAN SETTING

You can choose: UNDER SCAN
OVER SCAN

INFORMATION

Display: H. FREQUENCY
V. FREQUENCY
RESOLUTION

This mode will display the video resolution.

PIP SETTING

You can choose: PIP   PIP / OFF

	SOURE	YUV / CVBS 1 / CVBSI 2
	POSITION	LF-TOP / RT-TOP / RT-BOT / LF-BOT
	SIZE	LARGE / SMALL / MID
	SWAP	
	EXIT	

LANGUAGE

You can choose: English
Español
Deutsch
Español
Italiano
Dutch
Português
Russian
EXIT

SETUP MENU

You can choose: OSD TIMEOUT   5~120 sec
EXIT

SPECAL FUNCTION I

You can choose:

	FRAME RATIO	80 / 90 / 0FF
	4:3 MARK LINE	ON / OFF
	CENTRAL MARK	ON / OFF
	CINEMA ZONE MARK	ON / OFF
	MARK TYPE	OVERLAY / TRANSPARENT
	EXIT	

SPECAL FUNCTION II

You can choose: TIMECODE SETUP(VALID FOR SDI ONLY)

	TITLE EDIT	TITLE DISPLAY	ON / OFF
		TITLE POSITION	MID-TOP / MID-BOT
		FONT SIZE	SMALL / LARGE
		FONT COLOR	RED / GREEN / ORANGE / WHITE
		EDIT TITLE	A~Z
	EXIT		

SETUP NETWORK

You can choose:

	DHCP	ON / OFF	User choice
	IP	127.127.127.127.	User defined/ set by DHCP if DHCP=ON
	MASK	255.255.255.255.	User defined/ set by DHCP if DHCP=ON
	GATEWAY	127.127.127.127	User defined/ set by DHCP if DHCP=ON
	MAC	xx.xx.xx.xx.xx.xx	unique to monitor cannot be changed
	EXIT		

*See **Remote Control Setup** for more details.*

UPDATE F.W.

You can choose: UPDATE SCALER F.W.
                     SCALER VER:
                     UPDATE FPGA F.W.
                     FPGA VER:
                     EXIT

FACTORY RESET

You can push ENTER button for reset the TLM-170G to factory setting.

AUDIO CONTROL

You can choose: INTERNAL AUDIO   ON / MUTE CONTROL / OFF
                     EXTERNAL AUDIO   ON / MUTE CONTROL
                     AUDIO INDICATOR   ON / OFF
                     AUDIO CHANNEL L   1
                     AUDIO CHANNEL R   2
                     EXIT

About USB dongle to upload new Firmware, we suggest 4 kinds USB dongle, Please select below models to do FW upgrade by USB.

a.   Sony 8G (Micro Vault USB flash drive)

b.   SanDisk 8G (Cruzer Glide USB flash drive)

c.   Transcend (Jet Flash16G)

d.   Kingston (DT101 G2 8GB)

Above all items all pass the test on USB download of TLM-170G.

Firmware update procedure

From time to time Datavideo may release new firmware to either add new features or to fix reported bugs in the current TLM-170P firmware. Customers can update the firmware themselves if they wish or they can contact their local dealer or reseller for assistance should they prefer this method.

This page describes the firmware update process and it should take ***approximately 15 minutes total time to complete***.

As well as a working TLM-170P you will need:

 - ➢ The latest firmware update for the TLM-170P monitor.
   This firmware file can be obtained from your local Datavideo office or dealer.

 - ➢ USB 2.0 pen drive 128MB or larger with a USB A connector.

Once started ***the update process should not be interrupted in any way*** as this could result in a non-responsive unit.

How to update the Scaler firmware

1. Unzip / extract the supplied zipped archive or rar folder.
2. Wipe the contents of the USB 2.0 pen drive so it is empty.
3. Transfer / copy the unzipped / extracted file to the USB 2.0 pen drive.
4. Plug the USB 2.0 pen drive into the USB 2.0 port labelled MAINTENANCE on the rear of the TLM-170P monitor.
5. Power the monitor on and press the MENU button to display the OSD Main Menu.
6. Using the OSD Menu buttons [UP, DOWN & ENTER] highlight and select the SETUP F.W. option.
7. Using the OSD Menu buttons [UP, DOWN & ENTER] highlight and select UPDATE SCALER F.W.
8. The TLM-170P tally light will flash different colours whilst the update is in progress.
9. The TLM-170P monitor will reboot itself at the end of the process.

How to update the FPGA firmware

1. Unzip / extract the supplied zipped archive or rar folder.
2. Wipe the contents of the USB 2.0 pen drive so it is empty.
3. Transfer / copy the unzipped / extracted file to the USB 2.0 pen drive.
4. Plug the USB 2.0 pen drive into the USB 2.0 port labelled MAINTENANCE on the rear of the TLM-170P monitor.
5. Power the monitor on and press the MENU button to display the OSD Main Menu.
6. Using the OSD Menu buttons [UP, DOWN & ENTER] highlight and select the SETUP F.W. option.
7. Using the OSD Menu buttons [UP, DOWN & ENTER] highlight and select UPDATE FPGA F.W.
8. The TLM-170P tally light will flash different colours whilst the update is in progress.
9. The TLM-170P monitor will reboot itself at the end of the process.
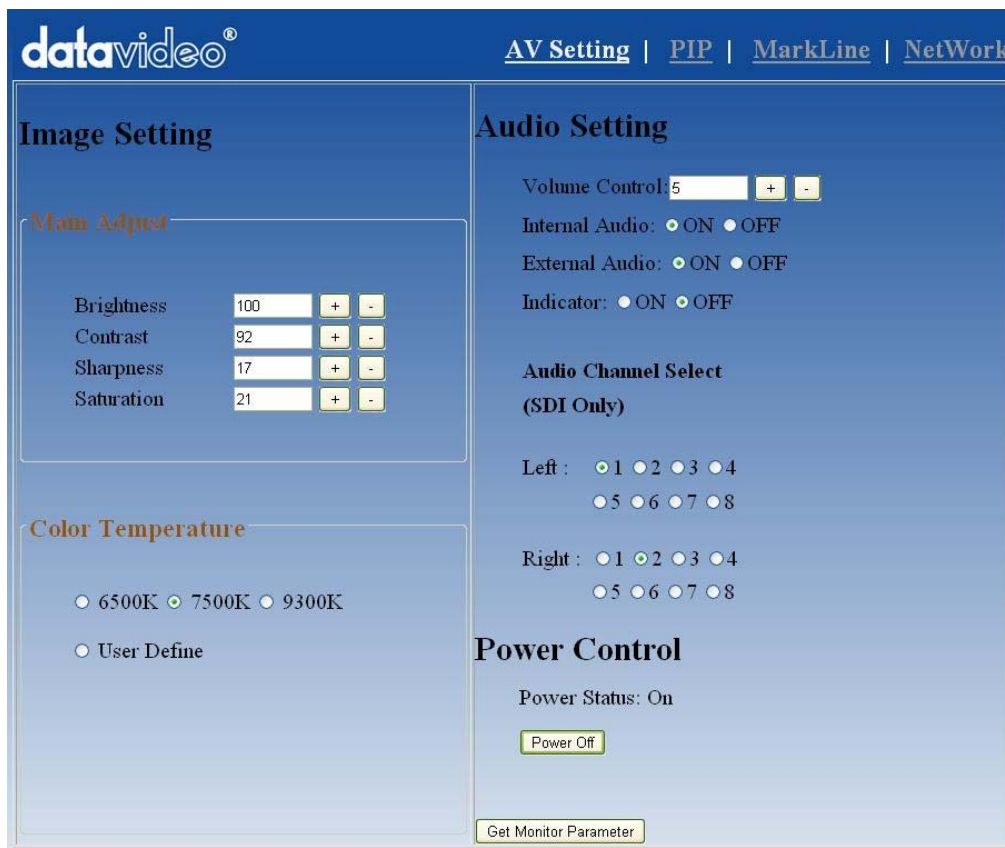
Once started ***the update process should not be interrupted in any way*** as this could result in a non-responsive unit.

Remote Control Setup

1. Use network cable line to connect TLM-170G and Router (has DHCP function).

2. Press TLM-170G MENU button, and then using the Up / Down buttons select SETUP NETWORK

3. Set TLM-170G:

   DHCP set ''ON''

4. Set PC:

   IP: 192.168.1.1
   Mask: 255.255.255.0
   Gateway: 192.168.1.1

5. Open IE Browser, and then key in the IP address http://192.168.1.2

Another setting way:

1. Use network line(crossover) to connect TLM-170G and PC RJ-45 port.

2. Press TLM-170G MENU button, and then using the UP / DOWN buttons select SETUP NETWORK

3. Set TLM-170G:

   DHCP set ''OFF''
   IP:192.168.1.2
   Mask:255.255.255.0
   Gateway: 192.168.1.1

4. Set PC:

   IP: 192.168.1.1
   Mask: 255.255.255.0
   Gateway: 192.168.1.1

5. Open IE Browser, and then key in the IP address http://192.168.1.2, wait a moment the IE will display as below:

In this UI you can set "AV Setting", "PIP", "Mark Line" and "Net Work" on your PC.

Specifications

LCD	Panel Size: 17.3"
	Contrast: 650
	Resolution: 1600 x 900
	White Luminance: 220cd
	View Angle:
	       Top:20 Bottom: 45
	       Left:45 Right:45

Video Input	HDMI x 2 (Ver 1.3) HD/SD SDI x 1 Component x 1(3 BNC) Composite x 2
Video Loop Thru Out	SDI Loop Thru x 1 Composite x 1
SDI Signal Format	SMPTE-425M-A/B - 1080p (60/59.94/50/30/25/24) 1080i (60/59.94/50) SMPTE-296M - 1080P(60/59.94/50) SMPTE-125M - 480I(59.94) ITU-R BT.656 - 576I(50)
Audio Input	Composite x 2 YUV x 1
Audio Output	Speaker cable output connections (L-, L+, R-, R+) Max 5v p - p (2w) Speaker Output connections Max 5v p - p (2w)
Tally	Tally input x 1
Service	F/W Upgrade - USB 2.0 x 1
Network	Remote Control - LAN (RJ-45) x 1

Functions	Support SDI audio embedded
	Support HDMI audio embedded
	Audio Indicator:
	       SDI / 8 CH
	       HDMI / 2 CH
	       CV/YUV 2CH
	
	Temperature Selection: 6500K,9300K,User define
	On Screen Time Code
	Safe Area
	Blue Only
	PIP
	Pixel Zoom up to 8x
	Under scan / Over scan selection

Service & Support

It is our goal to make your products ownership a satisfying experience. Our supporting staff is available to assist you in setting up and operating your system. Please refer to our web site www.datavideo.com for answers to common questions, support requests or contact your local office below.

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Please refer to our website for update the latest version manual.
www.datavideo.info/LCD+Monitors/TLM-170G

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