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LCD:

Architecture – 8.9" LCD WXGA (1280x768)
Contrast – 500:1
Brightness – 250 Nits (LED Backlight)
Display Color – 16.7 Million (Dithered)
Response Time – 25 ms, full on/full off
Viewing Angle (L/R/U/D) – 179 / 179 degrees
Surface Finish – Antiglare

Controls:

Brightness – Contrast – Saturation – Hue – Sharpness
4:3 – 16:9 – 16:10 – 2.35:1 – 2:1 – 1:1 – Custom Sizing Overscan and Underscan
Picture Flip and Rotate
Red Green Blue Level – 5000K – 6500K – 8000K – 9300K – Red Green Blue Monochrome
Blue Only for Calibration
Picture in Picture – On Screen Display – Multi Language – Freeze Frame
Infrared Remote Control – Full Access to OSD (Optional)

Case:

0.125" Polycarbonate
Dimensions – 9.75" Wide, 6.5" High, 2.0" Deep
Weight – 2 LBS
Stainless Steel Buttons
Two Mounting Location to Connect to Camera Gear (1/4*20 Thread, Top & Bottom)

Inputs:

DVI – HDMI (HDCP) – 1 Input, Supports 1080p, 1080i, 720p, 576p, 576i, 480p, 480i and VESA and IBM
VGA – VESA and IBM
HDSDI – SMPTE 259M-C – Supports 1080p 30Hz, 1080p 25Hz, 1080i 60Hz, 1080i 50Hz, 720p 60Hz,
720p 50Hz, 576p 50Hz, 480p 60Hz, 576i 50Hz, and 480i 60Hz (HD8910 - Single Channel HDSDI, HD8920
- Dual Channel HDSDI)
Component: 1 Input, Supports 1080p, 1080i, 720p, 576p, 480p, 60Hz, 50Hz, 30Hz and 24Hz
Video and S-Video: 1 Input Each, Support 480i, 576i, 60Hz and 50Hz
Power – 12v DC – 4 Pin XLR Power < 30 Watts
Tekkeon MP3450I Rechargeable Battery – 2 Hour Run Time (Optional)
Battery Plates – Sony, Panasonic, Cannon (optional)

MANHATTAN LCD | Quick Guide

HD8900

Section: HD8900 - Monitor Schematic



Graphic Key

- Casing Screws (+)
- Sun Shade Connectors (●)
- 1/4-20 Mounting (○)

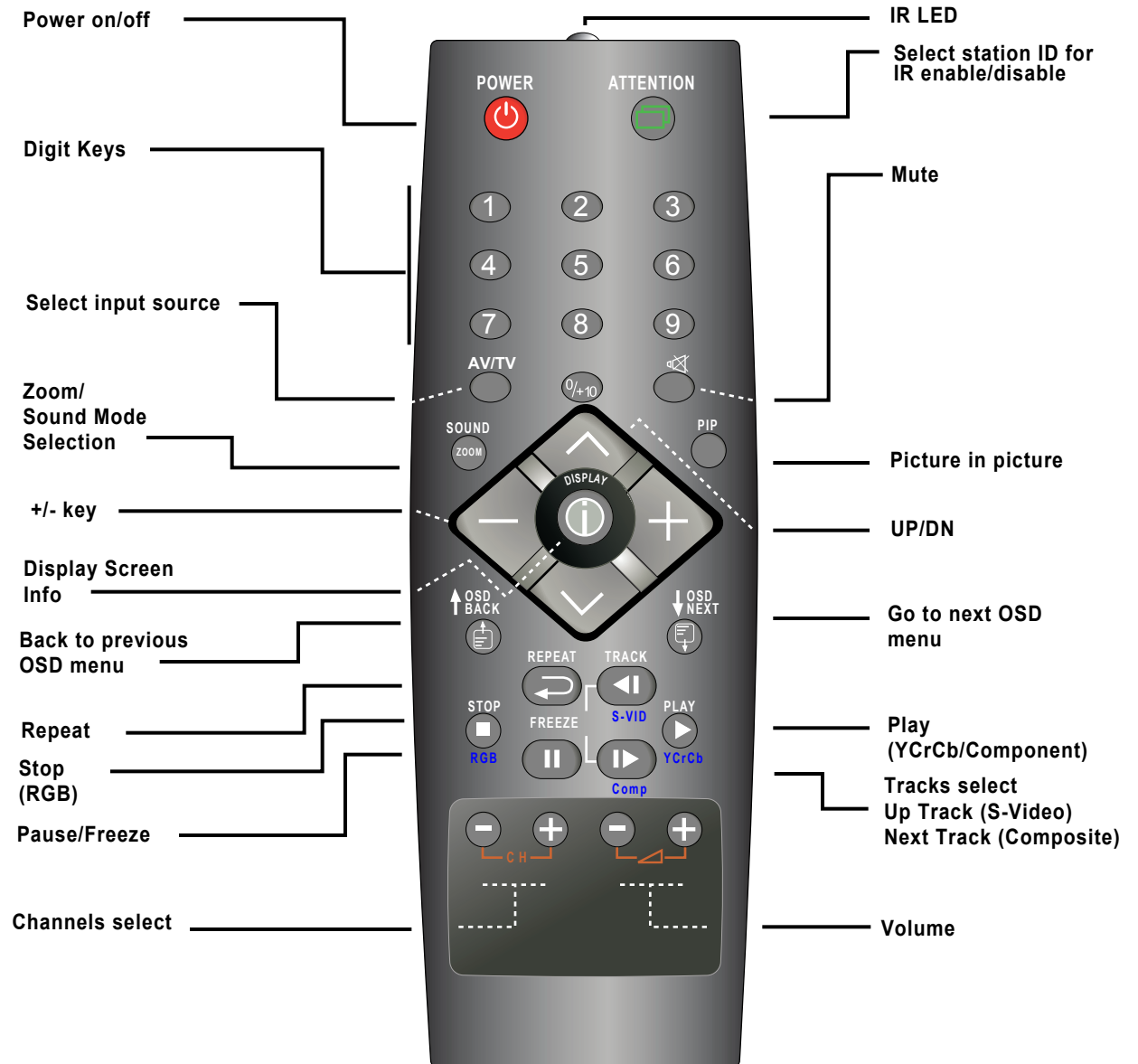


BOTTOM (connectors)

The Digital View remote control unit is compatible with all DV controller products. It is provided with universal control buttons that enable the control of OSD functions plus TV and media playback on DV media products.

Specifications

- Operating voltage- DC 3V
- Operating temperature -10LC ~ 50LC
- Operating current- 20 K 10mA
- Power source- 2 x AAA size batteries
- Number of keys- 33
- Oscillation frequency- 455KHz K 2.2KHz
- Arrival distance- 7 m
- Dimensions- 148mm(H) x 47.5mm(W) x 28mm(D)
- Weight- Approx, 75g (without batteries)



Basic Functionality


Using **Remote Control** or **Monitor Console**

Function: Power On Monitor> Insert power source via connector into the 12V DC socket or 4-pin XLR DC input respectively.

A **RED LED** will indicate power is reaching the monitor. If **RED LED** fails to light, trouble shoot power adapter, battery or source. Screen will be **BLACK**.

Insert one or more video source connections into the appropriate ports (See P5)


Function: Invoke *On-Screen Display* and access *basic On-Screen Menus* using **Remote Control** or **Unit Console**

With two fresh AAA batteries installed, point the front of the remote at the **Monitor Console's IR port (Status / IR)** and depress the **RED** 'Power' button  located on the remote control unit. The **RED** power **LED** will then turn **GREEN** and after 6 seconds, a solid **BLUE** will fill the screen. If unit is set to automatically detect a source (**Auto Source Seek**); it will scroll through options and stop when a signal is detected. If no source is detected an error message will result. If **Auto Source Seek** is OFF, then a signal type must be manually selected using the remote control or unit console. Once a signal has been detected, an image will appear with the default settings that were last used.

CAUTION: Selecting "Reset to Factory Defaults" under the UTILITIES menu will erase all user preferences and revert the settings to factory defaults.

TIP: It is a good idea to make screen shots or to note down preferences for various users as well as specific scenarios for future reference (particularly in the event of an accidental reset to factory defaults)

Function: Select and Adjust Display Settings: Remote or Console

Invoke On Screen Display (OSD) On remote, depress either  OSD button. The OSD will appear. Select OSD modes by scrolling Right > or < Left using 'NEXT OSD and BACK OSD buttons respectively. Use the **▼** & **▲** as well as **(+)** & **(-)** keys to navigate within each menu option and to make selections and manipulate sliders.

The same functionality can be invoked using the unit console control buttons.

(See detailed OSD Functions)







When session is complete, turn power OFF, disconnect power cable and then all video input cables.

Energy Saver: Use **Auto Power OFF** and **OSD Timeout** settings to conserve energy and increase screen longevity

(See detailed OSD Functions)



Picture Mode

- Volume###**  Increase/decrease volume level, total: 100 steps
- Brightness**  Increase/decrease panel brightness level, total: 100 steps
- Contrast**  Increase/decrease panel contrast level, total: 100 steps
- Saturation**  Increase/decrease saturation, total: 100 steps
- Hue ****  Increase/decrease Hue level, total: 100 steps
- Sharpness***  Increase/decrease sharpness, total: 30 steps

Position :



Move the image position upward |



Move the image position downward |





Move the image position to the left



Move the image position to the right





Backlight :

Backlight  Backlight brightness adjustment (Function when light detector sets OFF)
Setup>

- Backlight invert :  : Invert for the backlight brightness
- Backlight Frequency : D/A 600Hz / PWM 160Hz
D/A 600Hz : Voltage level dimming control
PWM 160Hz : PWM dimming control

Aspect / Size :

- Fill Screen : Enable full screen expansion for lower resolution Image
- Fill to Aspect Ratio: Enable fill screen expansion for lower resolution image according to aspect ratio
- 4 : 3 : scaling format in 4:3
- 16 : 9 : scaling format in 16:9
- 16 : 10 : scaling format in 16:10
- 2.35 : 1 : scaling format in 2.35:1
- 2 : 1 : scaling format in 2:1
- 1 : 1 : Display the exact image resolution on the screen without image expansion.
- Custom Sizing#### :
- Overscan
- Normal
- Custom >


- H Size 
- V Size 
- H Pan 
- V Pan 



Picture Mode

Aspect / Size :

- Fill Screen : Enable full screen expansion for lower resolution Image
- Fill to Aspect Ratio: Enable fill screen expansion for lower resolution image according to aspect ratio

Blue Only :  ON / OFF : Turn off the "Red" & "Green" channel (i.e output all zero to Red & Green channel)
[This function will display on OSD menu when JP4 – 5-6 closed]

- * : DISPLAY IN VIDEO MODE ONLY
- ** : FUNCTION IN ARGB/ DVI / VIDEO NTSC / HD COMPONENT MODE ONLY
- # : DISPLAY IN ARGB / DVI MODE ONLY
- ## : FUNCTION IN ARGB MODE ONLY
- ### : DISPLAY WHEN VIDEO ADD-ON BOARD CONNECTED
- #### : DISPLAY IN VIDEO / HD/SD SDI 1 / HD/SD SDI 2 MODE ONLY



Input

Input : Select the input video signal

HD/SD SDI 1 • HD/SD SDI 2*** • VGA# • DVI • HD Component • Composite 1 • Composite 2*** • S-Video • SD Component

: Press “-“ key to activate the “Auto Picture Setup” function.

PIP Setup >

PIP Source

HD/SD SDI 1 • HD/SD SDI 2 • VGA • DVI • HD Component • Composite 1 • Composite 2 • S-Video • SD Component • Off

PIP Size : OFF / Small / Medium / Large / PBP

4 possible input groups that can be mixed for PIP :

- VGA/HD-component
- DVI
- HD-SDI
- Composite/S-Video/SD-component

It can not allow to select signal source from the same group for PIP.

CONTINUED>>>



Input (...continued)

PIP Position :



Move the PIP position upward



Move the PIP position downward



Move the PIP position to the left



Move the PIP position to the right

PIP Swap : Swap between the main window and PIP window

PIP Auto off :  : OFF / ON

ON : When PIP is no signal input after 30 seconds, the PIP window will turn off automatically.

OFF : PIP window keeps on

*** DISPLAY WHEN SETTING ON UNDER SETUP AUTO SOURCE SEEK



Utilities

Setup >

Auto Picture Setup# : Auto adjust the image position, phase and size

Auto Color Gain## : Auto Color Calibration (See appendix IV)


Wide Screen Mode detection# > : Recognize the wide screen mode coming from ARGB port

- Off

- 1280x768

- 1366x768

Manual Clock## :  Adjust the image horizontal size

Manual Phase# :  Fine tune the data sampling position (adjust image quality)

Auto Source Seek :

- Auto :  : OFF / ON

ON – Auto source select always enable

OFF – Disable auto source select functionComposite 1



Utilities (...continued)

Setup > Selection for the corresponding input sources detection

HD/SD SDI 1 OFF ON • HD/SD SDI 2 OFF ON • VGA OFF ON • DVI OFF ON • HD Component OFF ON • Composite 1 OFF ON
 Composite 2 OFF ON • S-Video OFF ON • SD Component OFF ON

The corresponding input port name display on OSD menu will disappear once setting "OFF".

De-interlacing Mode*> AFM OFF ON : Auto Film Mode • TNR OFF ON : Temporal Noise Reduction
 MADI OFF ON : Motion Adaptive De-interlacing • LADI OFF ON : Low Angled De-interlacing

Auto Power OFF ON : OFF / ON

ON – Enable soft power off function if absence of input signals

OFF – Disable soft power function


Video Standard (SD)* : Auto / NTSC / NTSC 4.43 / PAL / PAL M / SECAM


Image Orientation : Normal / Horizontal flip / Vertical flip / Rotate

Gamma : 1.0 / 1.6 / 2.2

OSD

OSD position :

H POS  : Move the OSD menu image horizontally

V POS  : Move the OSD menu image vertically

OSD Timeout (sec) : ON – 60 : Adjust the OSD menu timeout period in a step of 5 seconds (max 60 seconds)

ON = Continuous to display OSD menu.


60 = 60 seconds later will turn off the OSD menu.

Language : English / Chinese : Select OSD menu language display

Transparency : OFF ON / OFF : Set OSD transparency

Freeze : Freeze the image (use "+" button)

Zoom >

Zoom level :  : Enable the zoom in function on the image displayed.
 Use "+" button to zoom in the image
 Use "-" button to decrease the zoomed image

Horizontal pan :  : Pan the image horizontally

Vertical pan :  : Pan the image vertically

Default : Restore to default values

Note : Freeze state will be cleared when you using zoom function.



Utilities (...continued)

Color Temperature

5000K

6500K

8000K

9300K

User setting :

USER Red :

USER Green :

USER Blue :

Default : Resume to the default values

Hot Key >

Hot key 1 : Volume / Brightness / Contrast / Input / Zoom / Freeze / Aspect / PIP Size / PIP Swap / Image Orientation

Hot key 2 : Volume / Brightness / Contrast / Input / Zoom / Freeze / Aspect / PIP Size / PIP Swap / Image Orientation

Monochrome Mode >

- Color
- Red Monochrome
- Green Monochrome
- Blue Monochrome

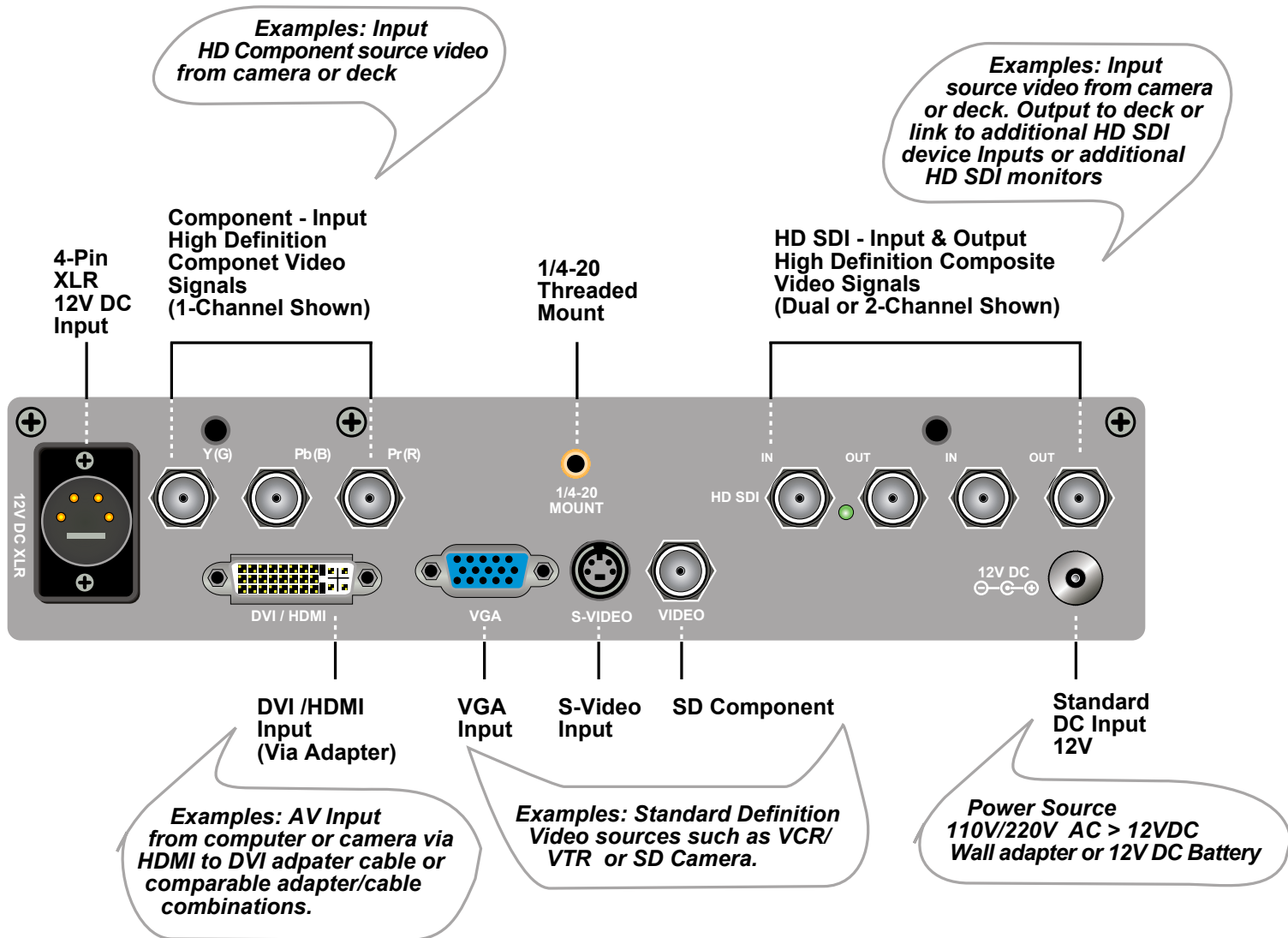
Reset to Factory Defaults

KEY

* : DISPLAY IN VIDEO MODE ONLY

: DISPLAY IN ARGB MODE ONLY

: DISPLAY IN ARGB / HD COMPONENT MODE ONLY



Warranty:

Manhattan LCD monitors are warrantied to be free from manufacturing defects for a period of 12 Months from the date of purchase to the original owner.

Disclaimers:

Manhattan LCD. Shall be indemnified and held harmless for any and all injury or death resulting from the improper use of their products.

Warranty is null and void if there is any evidence of tampering, or if the case has been opened.

Claims:

Claims for damages must be preceded by a Return Merchandise Authorization (RMA) . RMA's may be requested directly from the manufacturer or authorized distributors.

Manhattan LCD reserves the right to refuse to repair or replace any monitor that it deems is in need of repair due to customer negligence or damage was caused by use other than the normal intended purpose of the product.

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