



AWT07M2LEDT HD Monitor

USER MANUAL

ISSUED OCTOBER 2018

! WARNING

Failure to follow all instructions and safety precautions in this manual, in the vehicle and body manufacturers' manuals and on the safety decals attached to the vehicle, body and this product could result in serious injury or death to operators, service technicians or bystanders and/or damage to property.

DO NOT operate the vehicle or install this product before you READ and UNDERSTAND the vehicle Operation Manual, this manual and other applicable manufacturers' manuals, and all safety decals. This product must be installed by certified technicians/installers familiar with the vehicles on which they will be making the installation.



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SAFETY PRECAUTIONS

Federal Communications Commission (FCC) Statement

This Equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio / TV technician for help.

You are cautioned that changes or modifications not expressly approved by the party responsible for compliance could void your authority to operate the equipment.

NOTICE

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

1. This device may not cause harmful interference and,
 2. This device must accept any interference received, including interference that may cause undesired operation
-

PRODUCT DOCUMENTATION UPDATES

Thank you for purchasing our product. Please read this User Manual before using the product. All product documentation is subject to change without notice. Please go to www.3rdeyecam.com to get the most current documentation for your 3rd Eye products.



3RD EYE®

USER MANUAL
AWT07M2LEDT

AWT07M2LEDT HD MONITOR
7" S TFT LCD MONITOR (LED BACKLIGHTED)

USER MANUAL
ISSUED OCTOBER 2018
3E-AWT07M2LEDT-UM-1018

USER MANUAL

AWT07M2LEDT

FEATURES

This heavy duty 2 port rear view camera monitor is designed with the same specs as our AWT07MLED with the only exception being the amount of camera inputs. Designed to withstand shock and vibrations of up to 10G, repel water intrusion, salt and handle extreme temperatures. Single Screen viewing is only available on the 7" screen. The AWT07M2LED is a rugged, robust monitor protected by die cast aluminum housing with the highest military specs suitable for the toughest known environments.

1. 7" Display with LED Panel Technology
2. ≥10G, Die Cast Aluminum Housing
3. Supports up to 2 CCD Camera Inputs (Mini DIN Connector)
4. New LED Panel Technology – Reduced Heat
5. Single Screen Viewing with Built-in Switch Box
6. Programmable E-Prom
7. Quick Disconnect for easy Installation
8. Built-in speaker with Adjustable Volume
9. Cradle or Pedestal Mounting Capability
10. Custom Camera Triggers – Reverse/Turn Signal
11. Sun shield Ultimate View Guard from Sun
12. Extra RCA Input for Multimedia (VCD, DVD, Game Device)
13. Provide 1 Video / 1 Audio Signal Output
14. Auto Detection for NTSC / PAL System
15. Signal Trigger for CAM A / CAM R / AV View
16. Auto Brightness Adjustment by CDS
17. OSD Control for Individual Normal / Mirror Camera Image
18. Video Output Select via OSD (CAM A / CAM R / AV)
19. Switch Timer (2-100 sec) Step Selection via OSD (CAM A / CAM R / AV)

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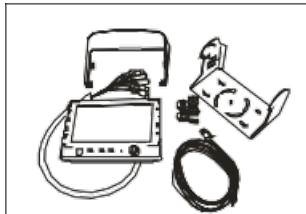
PACKAGE CONTENTS

ITEM	QTY
1. 7" LCD Monitor	1
2. Sun-hood	1
3. Mounting Bracket	1
4. Accessories	1
5. Control Cable	1
6. User Manual	1

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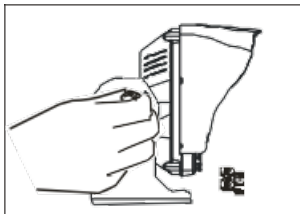
AWT07M2LEDT

TFT INSTALLATION



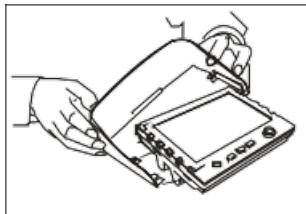
STEP 1

Check the package and make sure all parts are included.



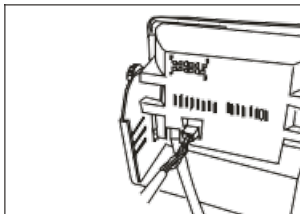
STEP 5

Adjust the monitor to an appropriate / comfortable viewing angle before tightening the screws.



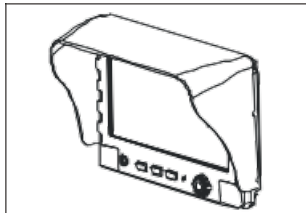
STEP 2

Clip the sun-hood on to the monitor.



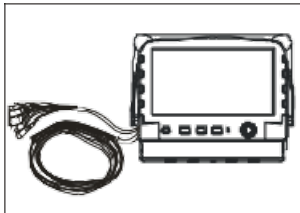
STEP 6

Connect the control cable included to the power socket which located at rear side of monitor.



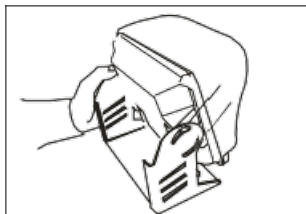
STEP 3

Make sure it is installed properly.



STEP 7

Monitor installation is now completed. Each control cable wire is attached with a sticker to indicate its signal function. Referred to the identification sticker for further installation.



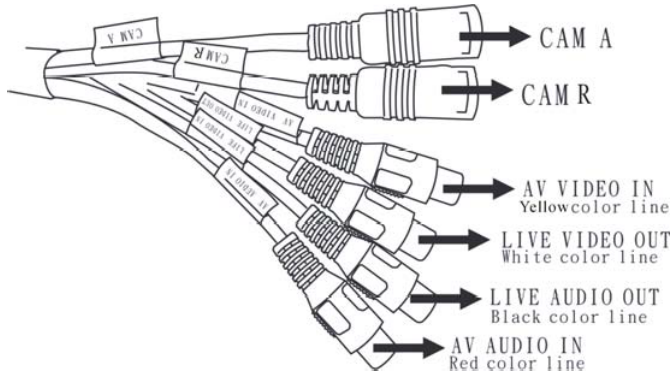
STEP 4

Install the monitor on to the bracket.

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SIGNAL CABLE DESCRIPTION

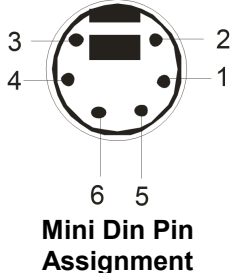


1. CAM A (Mini DIN)
Fixed for Direction Light (Left Turn Light or Right Turn Light) vision camera
2. CAM R (Mini DIN)
Fixed for rear vision camera
3. LIVE VIDEO OUT (RCA - White Wire)
On screen video loop out (for recording, second monitor or other device)
4. LIVE AUDIO OUT (RCA - Black Wire)
On screen audio loop out (for recording, second monitor or other device)
5. AV VIDEO IN (RCA - Yellow Wire)
Connection for any Video signal (DVD, VCD, Game)
6. AV AUDIO IN (RCA - Red Wire)
Connection for any Audio signal (such as DVD, VCD, Game)

USER MANUAL

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SIGNAL CABLE DESCRIPTION (CONTINUED)



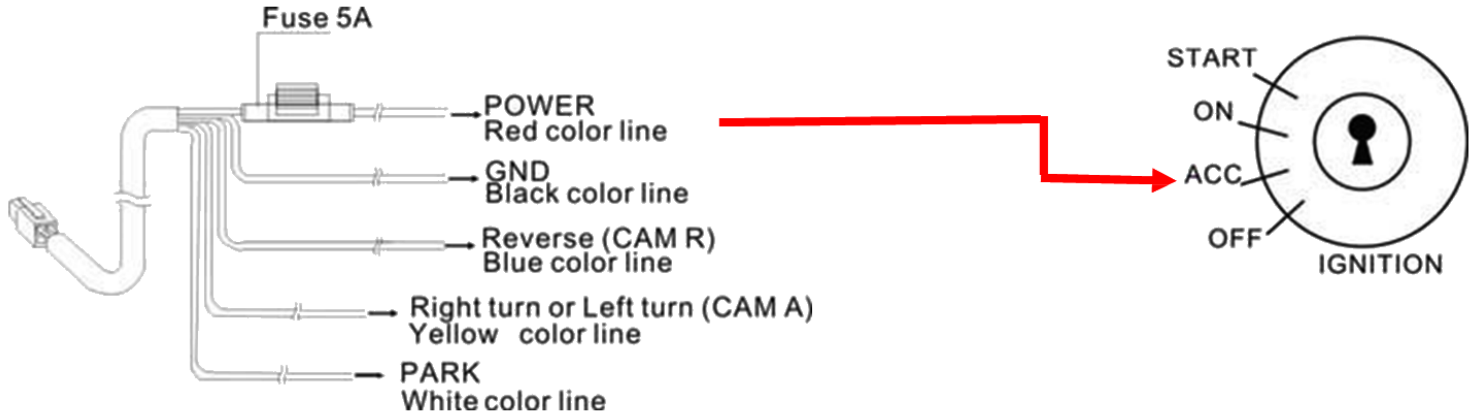
- * Type 1 (Standard):**
- 1. Video
 - 2. -----
 - 3. Audio
 - 4. +12V
 - 5. GND
 - 6. -----

Function of the Audio	
Cam A	Audio from Cam A
Cam R	Audio from Cam R
AV	Audio from AV

USER MANUAL

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CONTROL CABLE DESCRIPTION



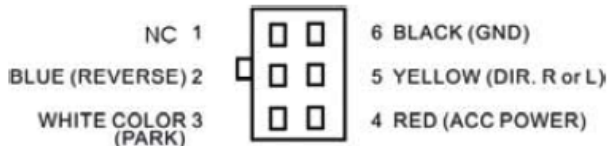
NOTICE

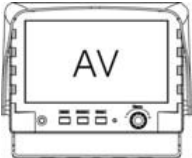
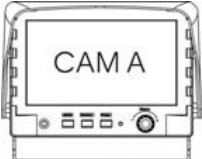
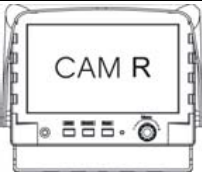
DO NOT connect the red wire (power wire) of this product directly to the battery. Connect the red wire of this product to the ACC of the ignition key switch. Failure to do so may result in permanent damage of the product.

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CONTROL CABLE DESCRIPTION (CONTINUED)

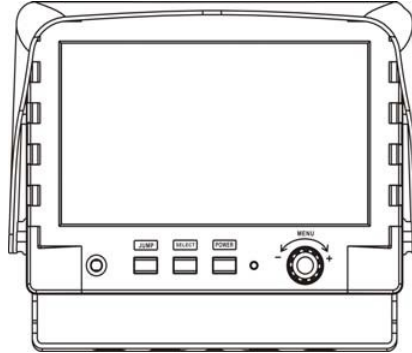


WIRE COLOR	FUNCTION	REMARK	ON SCREEN VIEW
RED	ACC POWER		
BLACK	GND		
WHITE	Parking Control	Active GND	
YELLOW	Right Turn or Left Turn Control	Active Power Level Connect to Direction Light (Left Turn Light or Right Turn Light)	
BLUE	Reverse Control	Active Power Level Connect to Reverse	

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FRONT PANEL CONTROL



POWER	Press the power button to activate the monitor or to keep the monitor under stand by mode. Red light for stand by, Green light is turn on.
SELECT	With power on press this button to select image sequence. CAM A → CAM R → CAM A..... With pull hand break, press this button to select image sequence AV → CAM A → CAM R → AV.....
JUMP	Press this button, it can switch CAM A, CAM R recurrently. With pull hand break and check the "Jump AV" option is ON, press this button to select image sequence AV → CAM A → CAM R → AV.....
MENU	When this button is not activate, user can turn left or right to adjust the Volume value.

USER MANUAL

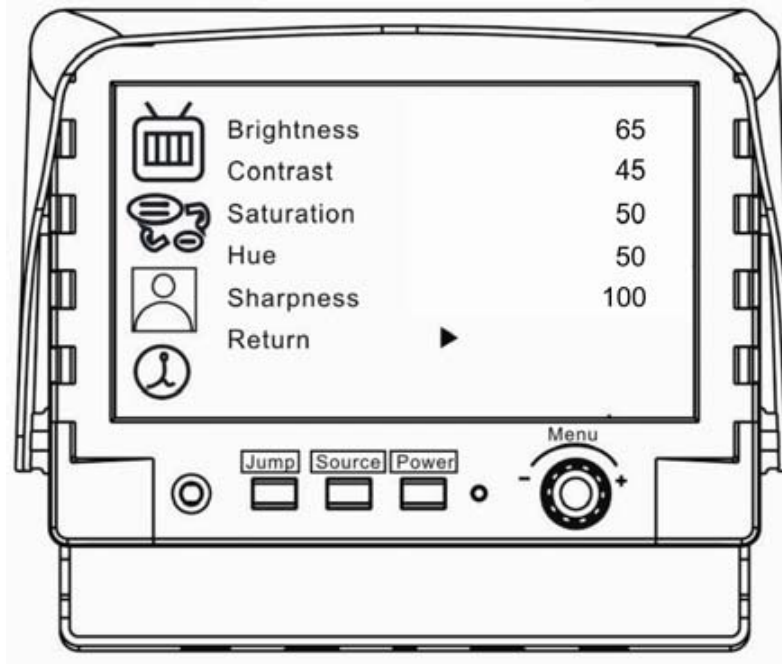
AWT07M2LEDT

FRONT PANEL CONTROL (CONTINUED)

OSD Menu

1. Press the MENU button to enter to the OSD Menu
2. Turn the MENU button left or right to select the setting you wish to proceed. The color of the content will turns YELLOW to identify your selection. Turn the MENU button left or right to adjust your setting value.
3. Press the MENU button once back to submenu and then press menu button again in order to return to OSD menu.

Enter to Main Menu:



USER MANUAL




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FRONT PANEL CONTROL (CONTINUED)



Screen Menu

This menu setup contains different setting for the TFT LCD.

	Brightness	65
	Contrast	45
	Saturation	50
	Hue	50
	Sharpness	100
	Return	▶
		

Brightness

Provide adjustment for shade and brightness level of TFT display. Setting value from 0 ~ 100. Default value is 65.

Contrast

Provide adjustment for the light and dark level of the TFT display. Setting value from 0 ~ 100. Default value is 45.

Saturation

Provide adjustment for the light intensity level of TFT display. Setting value from 0 ~ 100. Default value is 50.

Hue

Provide adjustment for the lightness and colorfulness level of TFT display. Setting value from 0 ~ 100. Default value is 50.

(Only in NTSC system is available.)

USER MANUAL




AWT07M2LEDT

FRONT PANEL CONTROL (CONTINUED)



Screen Menu

This menu setup contains different setting for the TFT LCD.

	Brightness	65
	Contrast	45
	Saturation	50
	Hue	50
	Sharpness	100
	Return	▶
		

Sharpness

Provide adjustment for the edge contrast (acutance) level of TFT display. Setting value from 0 ~ 100. Default value is 100.

Return

Return to OSD menu selection screen.

USER MANUAL

AWT07M2LEDT

FRONT PANEL CONTROL (CONTINUED)



DISPLAY Menu

This menu setup contains the on screen identification and the activation of the distance gauge.

CAM Name

Select "ON" to show the SELECT of video input title on screen or "OFF" to keep it invisible. Default value is ON.

Distance Gauge

Set the distance gauge "ON" to show the distance gauge on screen while reserving or "OFF" to deactivate. Default value is ON.

(This "DISTANCE GAUGE" is for user's reference only)

Auto Day&Night

Select "ON" to activate the auto day & night function or "OFF" to deactivate it. Default value is OFF.

OSD Lock

This function provides protection when an unauthorized person tries to access the OSD settings. JUMP and SELECT key press simultaneously for over 5 seconds to unlock. Default value is OFF.

※Users must turn on LCD in order to run unlock process. All function buttons are still working during OSD Menu lock up period.

	CAM Name	ON
	Distance Gauge	ON
	Auto Day & Night	OFF
	OSD Lock	OFF
	Reverse Mode	4:3
	Return	▶

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FRONT PANEL CONTROL (CONTINUED)



DISPLAY Menu



This menu set up contains the on screen identification and the activation of the distance gauge.

Reverse Mode

When reversing select LCD profile ratio 4:3 the display show in size 4:3(default), select LCD profile ratio 16:9 the display show in size 16:9

Return

Return to OSD menu selection screen.

	CAM Name	ON
	Distance Gauge	ON
	Auto Day & Night	OFF
	OSD Lock	OFF
	Reverse Mode	4:3
	Return	▶

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

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FRONT PANEL CONTROL (CONTINUED)



CAMERA Menu

This menu setup contains the on Camera and Jump settings.

	CAM A MIRROR	OFF
	CAM R MIRROR	ON
	JUMP DWELL	3
	JUMP AV	ON
	RECALL	▶
	Return	▶
		

CAM A MIRROR

Select "ON" to activate the mirror function for different cameras or "OFF" for a normal image.

Default value is OFF.

CAM R MIRROR

Select "ON" to activate the mirror function for different cameras or "OFF" for a normal image.

Default value is ON

JUMP DWELL

Setting Jump dwell value from 2~100. Default value is "3".

JUMP AV

Jump function included AV channel or not. If setting is ON but system does not work, you should check the PARK trigger status. Default value is "OFF".

RECALL

Recall factory default.

Return

Return to OSD menu selection screen.

USER MANUAL

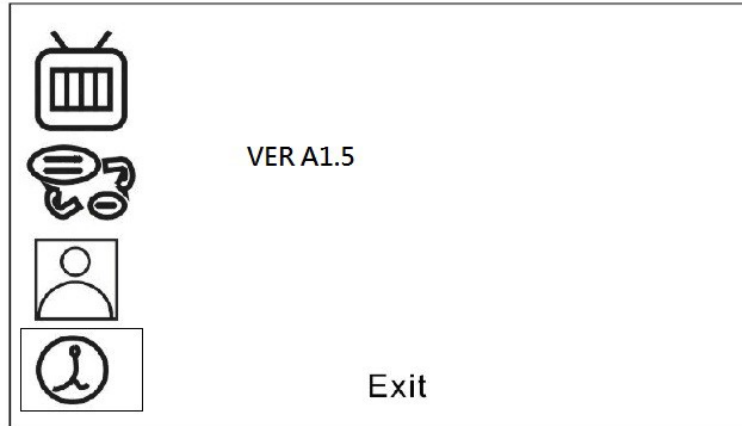
AWT07M2LEDT

FRONT PANEL CONTROL (CONTINUED)



Information

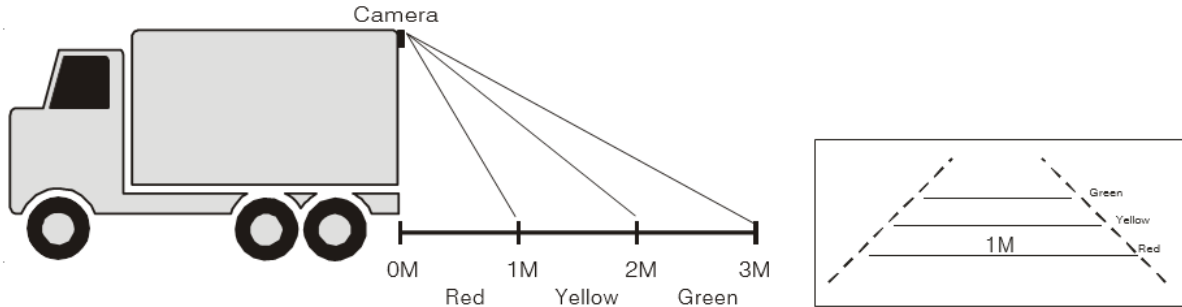
This menu shows firmware version of this model.



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VEHICLE INSTALLATION



NOTE: This “DISTANCE GAUGE” is for user’s reference only.

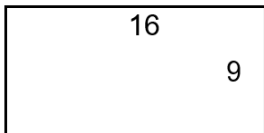
1. Install Camera R (for rear view)
2. Use a measuring tool to mark out the distance behind the vehicle.
3. Adjust the viewing angle of the camera so that the distance gauge shown from the TFT match to the distance marks behind the vehicle.
4. Switch to Rear view with SELECT button, the screen always display on 16:9 While rear viewing, the screen always display on 4:3 to correct size percentage.

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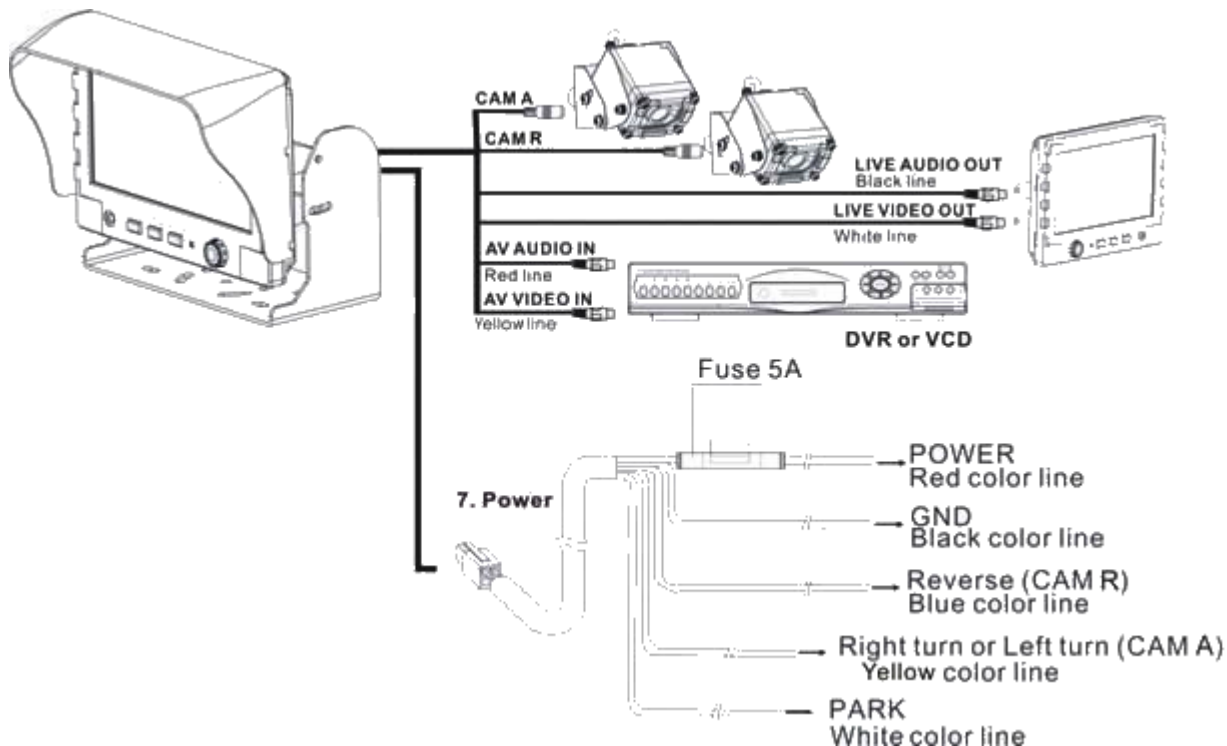
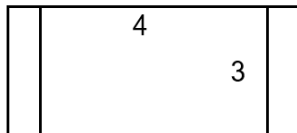
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VEHICLE INSTALLATION (CONTINUED)

SELECT button:



Rear viewing:



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SPECIFICATIONS

Screen size	7 Inch (diagonal)
Active area	154.08(W) x 86.58(H)
Pixel configuration	0.107(W) x 0.370(H)
Resolution	1440(W) x 234 (H)
Viewing angle	UP:40° / Down:60° / Left: 60° / Right:60°
Power source:	DC9.6V ~DC32V
Contrast ratio	300:1*
Brightness	450 cd/m2 *
AV Video In	
Connector	RCA type
Input Signal	1Vpp
Impedance	75 Ohms
AV Audio In	
Connector	RCA type
Input video signal level	1Vpp
Impedance	1K Ohms

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SPECIFICATIONS (CONTINUED)

Camera MINI DIN In	
Connector	6 PIN MINI DIN type (Standard)
Input video signal level	1Vpp
Impedance	75 Ohms
Input audio signal level	1Vpp
Power output for camera	DC12V 350mA
Live Video Output	
Connector	RCA Type
Output signal level	1Vpp
Impedance	75 Ohms
Live Audio Out	
Connector	RCA Type
Humidity	1Vpp
Impedance	1K Ohms

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SPECIFICATIONS (CONTINUED)

Dimensions	
W x H x D :	192 x140.5 x 51.8mm
Weight	N.W. / G.W.: 2kg / 2.28kg
Environmental	
Operation temperature	-10°C~70°C
Storage temperature	-30°C~80°C
Humidity	20%-80%

*The brightness and contrast ratio specifications are from panel specification.

Design and Specifications are subject to change without notice.

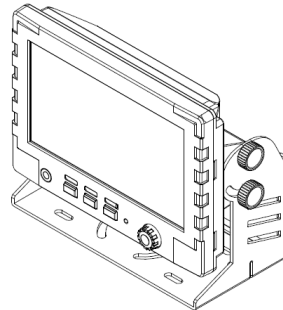
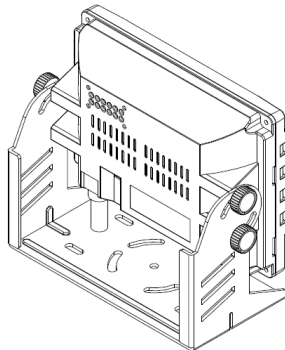
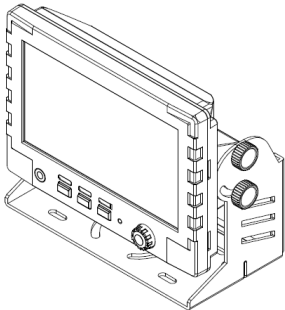
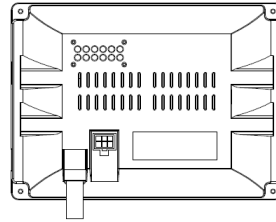
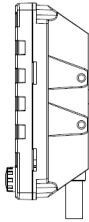
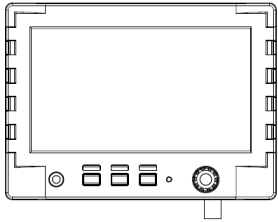
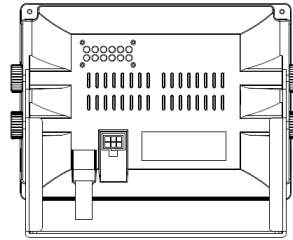
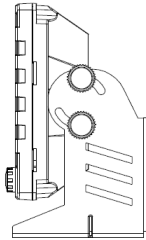
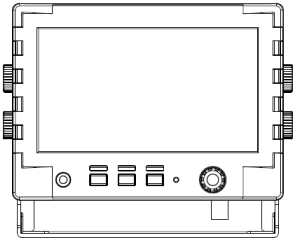
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USER MANUAL

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MOUNTING

Attachment 1: Dimension Chart

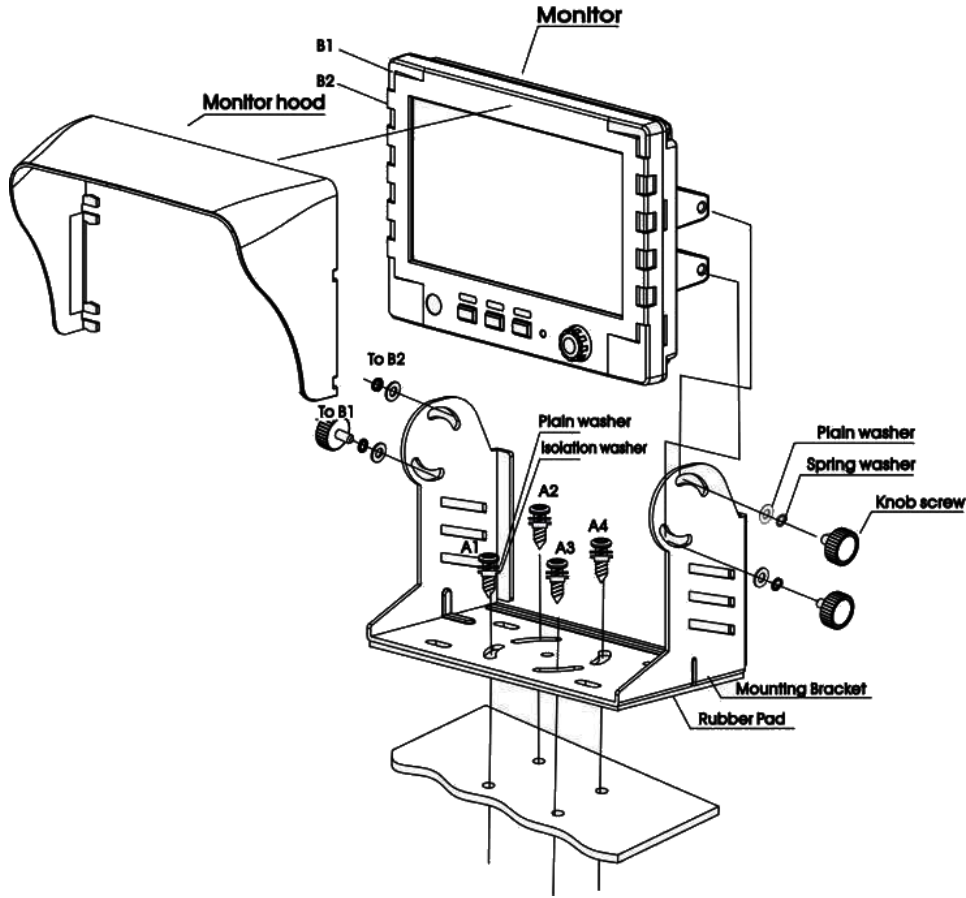


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MOUNTING (CONTINUED)

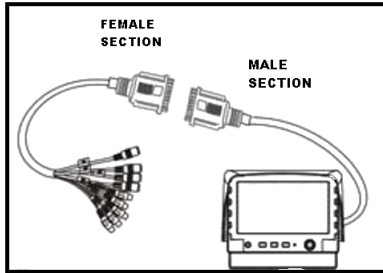
Attachment 2: Installation Chart



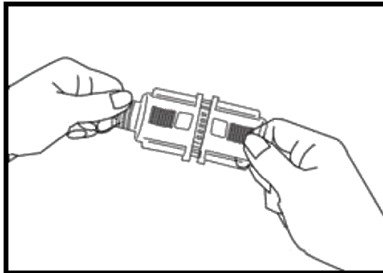
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CABLE CONNECTIONS

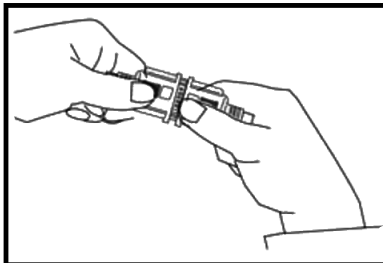


1. The first part of the cable which connected with the LCD Monitor, herewith we called the Male Section
2. The second part of the cable which ended with the RCA/MINI DIN connectors, herewith we called the Female Section.



Connection steps are:

1. Connect the "Male Section" to the "Female Section".



2. Tighten up the side screws.

NOTE: The Cable should be stored in a dry place and please try to avoid the water and humidity, otherwise, it may cause problem of the product itself or even more dangerous.

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3RD EYE WARRANTY

3RD EYE PRODUCTS LIMITED WARRANTY

3rd Eye warrants that the 3rd Eye Hardware and Software, as delivered by 3rd Eye to Client, will be free from defects in materials and workmanship in accordance to the terms and conditions specified herein. This warranty is a "parts replacement only" policy, and does not cover labor. Other limitations apply as provided below.

TERMS & CONDITIONS

DEFINITIONS

- 1.1 "Hardware" means cameras, monitors, Gateway and related peripheral hardware.
- 1.2 "Software" shall mean the Application or Embedded Software.
- 1.3 "Self-Service Client" shall mean any client that maintains their own equipment and is not under Service Agreement with 3rd Eye.

WARRANTY PERIOD

- 2.1 Unless a separate written Agreement with 3rd Eye is provided, a 1 Year warranty from the original date of hardware installation or the original date of purchase, whichever occurs first shall apply. Troubleshooting, labor, travel time, freight and miscellaneous costs are not covered.
- 2.2 New replacement hardware covered under warranty shall be covered under warranty for the remaining period of the initial warranty term.
- 2.4 Refurbished hardware and hardware installed by the customer shall carry a 90-day replacement warranty from the original date of hardware installation or the original date of purchase, whichever occurs first shall apply.
- 2.5 Labor and workmanship provided by a certified 3rd Eye technician shall carry a 90-day replacement warranty from the original date of service.

WARRANTY REIMBURSEMENT

- 3.1 To submit for warranty reimbursement, Client must notify 3rd Eye in writing by obtaining a 3rd Eye Return Material Authorization (RMA) number within the relevant Warranty Period. The authorized RMA the Client receives must be marked on the outside of the package returning the failed component and sent prepaid and packaged appropriately for safe shipment. The RMA number will serve as the warranty claim reference number. 3rd Eye will either repair or replace the defective component at its discretion. To request for an RMA number please complete the online RMA form found at www.3rdEyecam.com or call 866.804.2984.
- 3.2 If the failure analysis of the returned hardware determines the cause of failure was other than material or workmanship covered under the terms of this limited warranty, the CUSTOMER agrees to pay 3rd Eye Cam for the replacement hardware, labor and expenses.

WARRANTY DISCLAIMER

- 4.1 This warranty shall become null, void, and not apply if Client fails to notify 3rd Eye in writing of such defects prior to the expiration of the Warranty Period, if the defect is not reproducible, or if the defect is caused by (a) customer damage, negligence, misuse, tampering, accident, fire, variation or interruption of electricity; (b) failure by Client to properly install, maintain, or use the 3rd Eye Hardware or the Third Party Hardware; (c) alterations made by anyone other than 3rd Eye to the 3rd Eye Hardware or the hardware and/or software that interfaces with the 3rd Eye Hardware after installation; (d) any attempt to service the 3rd Eye Hardware other than by 3rd Eye's service technicians or (e) any hardware, software or part not approved by or not supplied by 3rd Eye. 3rd Eye shall not be responsible for the safeguarding or retention of Client's or any third-party software, firmware, information or memory data contained in, stored on, or integrated with any 3rd Eye Hardware that is returned to 3rd Eye pursuant to any warranty provided under this Agreement.
- 4.2 3rd Eye hereby disclaims all warranties, express, implied, or statutory, including, without limitation, the warranties of merchantability, fitness for a particular purpose. 3rd Eye makes no claim that the software will work in combination with any hardware or software products provided by third parties, that the operation of the software will be uninterrupted or error-free, that all defects in the software can be corrected, or that any specific result or outcome will be achieved by utilizing the products or third-party hardware provided by 3rd Eye.



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