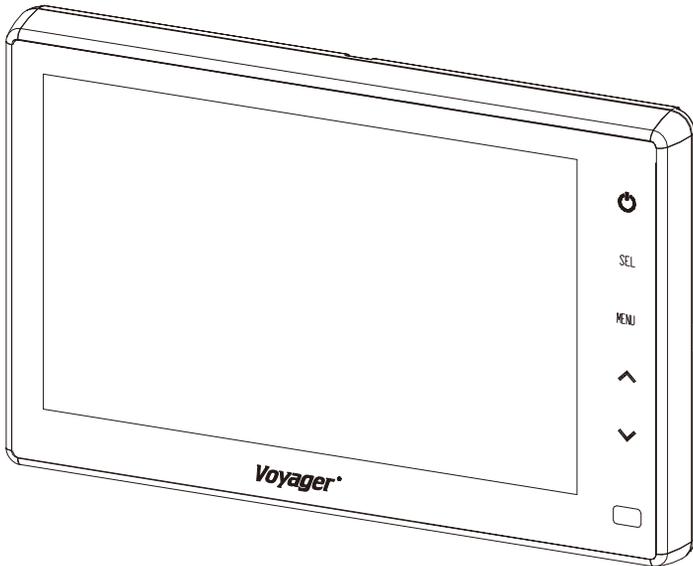


# Voyager<sup>®</sup>

EXPAND your vision™

## VOM74SD 7" DIGITAL SEVERE DUTY LCD MONITOR



### **Camera-Monitor Warnings!**

1. Camera/monitor system aids in the use of, but does not replace vehicle side/rear-view mirrors.
2. Objects in camera/monitor view are closer than they appear.  
When backing up, proceed cautiously and be prepared to stop.

The model and serial numbers are located on the back of the monitor. Record the serial number in the space provided below. Refer to these numbers whenever you call upon your dealer regarding this product.

**Model No.** VOM74SD  
**Serial No.** \_\_\_\_\_

**WARNING**

To avoid electric shock, do not open the cabinet. Refer servicing to qualified personnel only.

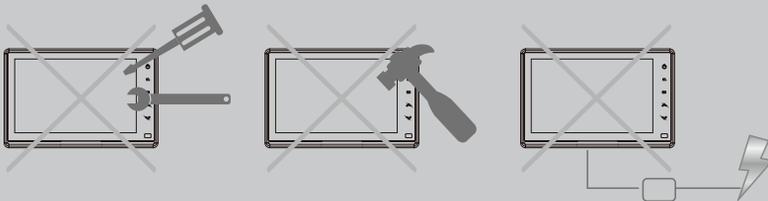
	<b>CAUTION</b> RISK OF ELECTRIC SHOCK DO NOT OPEN	
<p>CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.</p>		



This symbol is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute risk of electric shock to persons.



This symbol is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.



You are warned that any changes or modifications which is not expressed or approved in this manual could void your warranty and cause the equipment to malfunction.

### **General cleaning information**

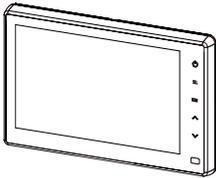
- Clean the unit with a slightly damp soft cloth.  
Use a mild household detergent.  
Never use strong solvents such as thinner or benzine as they might damage the finish of the unit.

## FEATURES

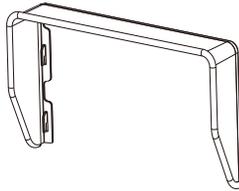
- Water Resistance (IP69K)
- 7" Digital LCD Wide Panel
- Auto NTSC/PAL Detection
- Auto DAY/NIGHT Detection
- Multiple display modes (SINGLE, SPLIT, TRIPLE, PIP, QUAD)
- Adjustable Speed switch
- Vandal Resistance (Al Housing)
- Aluminum Housing
- Parking Distance Marker Setting Available
- Capacitive Touch Key
- Support Multi-Function Camera (CAM1 &CAM2): Normal/Shutter/Tilt

## PACKAGE CONTENTS

Please check that you have the correct contents before using this product.  
If any items are missing, please contact your dealer.



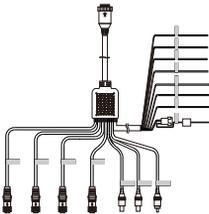
VOM74SD MONITOR



SUN VISOR



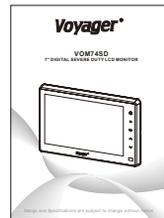
STAND BRACKET



4P IP TYPE  
CAMERA CONNECTOR  
HARNESS



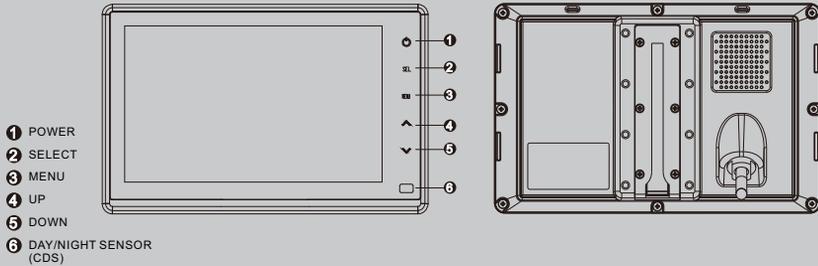
SCREW KITS



INSTRUCTION  
MANUAL



# OPERATION



## 1 POWER



- Touch  to turn the monitor on.
- Touch  to turn the monitor off.

 **NOTE** Monitor start mode will follow “AUTO POWER SETTING”

## 2 SELECT

**SEL**

- Touch **SEL** to select CAMERA.
- Touch **SEL** to select the option in SET UP MENU.

## 3 MENU

**MENU**

- Use **MENU** to enter Display Menu(Short key) and Main Menu(Long key).
- Touch once to enter menu mode.
- Touch again to exit from menu mode.
- Selectable OSD Menu Disappears within 7 sec is not another button touched.
- Touch menu button for 2 sec to go back to main menu from submenu.



# OPERATION

## 4 UP 5 DOWN



- While in Menu mode  and  navigate through the available menu options.
- Touch   to adjust Bright, Contrast, Color, Tint Volume and other settings.

## 6 DAY/NIGHT SENSOR

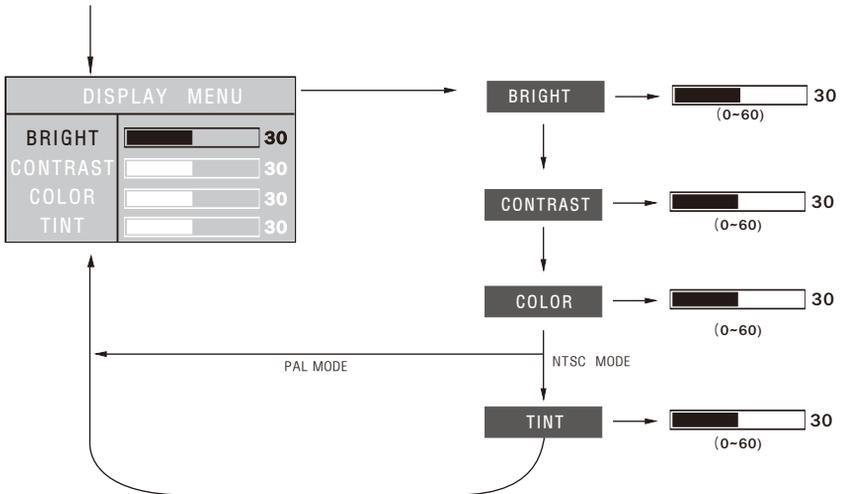
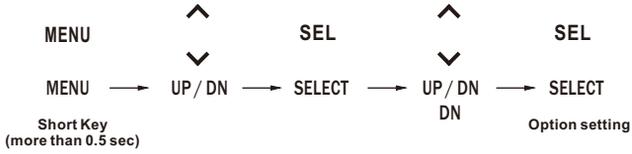


- Automatic Brightness Control  
The brightness of the monitor is adjusted automatically with the DAY/NIGHT SENSOR accordingly to ambient light.



# OPERATION

## DISPLAY MENU



\* TINT menu is displayed in NTSC only.

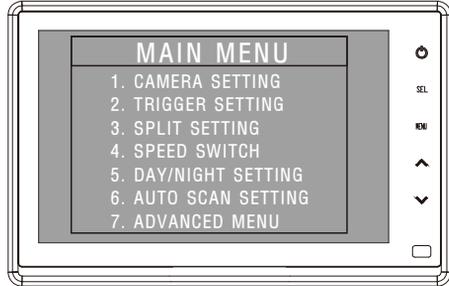
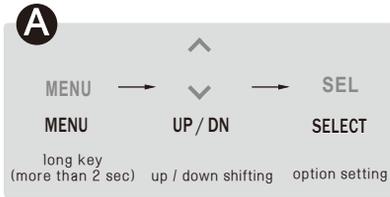


# OPERATION

## SETUP MENU

Touch MENU button for 2seconds to enter MAIN MENU.

Selectable OSD MENU disappears within 7 sec if there is no new button touched.

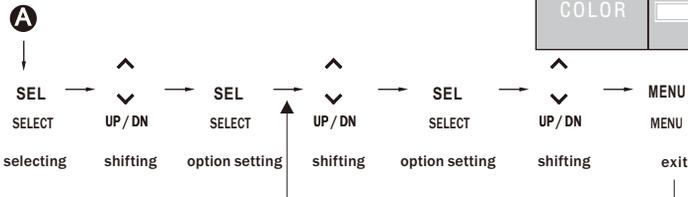


## 1 CAMERA SETTING

1. CAMERA SETTING	
CAM1	SUBDIVISION MENU
CAM2	NOR/MIR : [MIRROR;NORMAL]
CAM3	UP/DOWN : [UP;DOWN]
CAM4	NAME:[CAM1 ]
AUX	SORT:[NORMAL;SHUTTER; TILT.AT;TILT.MT]

### SUBDIVISION MENU

SUBDIVISION MENU	
BRIGHT	30
CONTRAST	30
COLOR	30



**NOTE** • SUBDIVISION MENU can control BRIGHT, CONTRAST and COLOR for individual channels (CAM1~4,AUX)



# OPERATION

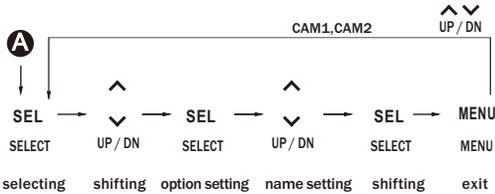
NOR/MIR:[MIRROR;NORMAL]

**NOTE** • Normal/Mirror image can be switched (CAM1~4;AUX)

UP/DOWN:[UP;DOWN]

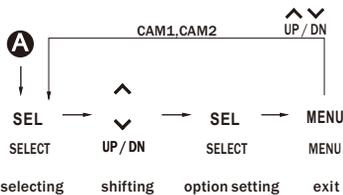
**NOTE** • Up/Down image can be switched (CAM1~4;AUX)

NAME:[CAM1 ]



**NOTE** • You can change the name for each camera.

SORT:[NORMAL;SHUTTER;TILT.AT;TILT.MT]



**NOTE** • Select camera type between NORMAL, SHUTTER, TILT AUTOMATIC or TILT MANUAL.

- How to control TILT MANUAL:
  - Select "TILT.MT" . Exit from MENU.
  - Press MENU key two times and you can see below OSD.
- TILT CONTROL:
  - Press ^ key for TILT UP.
  - Press v key for TILT DOWN.

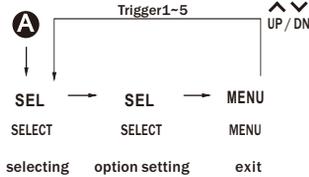


# OPERATION

## 2 TRIGGER SETTING

2. TRIGGER SETTING	
TRIGGER1	SOURCE:[CAM1~4;AUX; SPLIT1~3;SKIP]
TRIGGER2	
TRIGGER3	DELAY:[0~20sec]
TRIGGER4	MARKER:[ON;OFF]
TRIGGER5	MARKER SETTING

SOURCE:[CAM1~4;AUX;SPLIT1~3;SKIP]

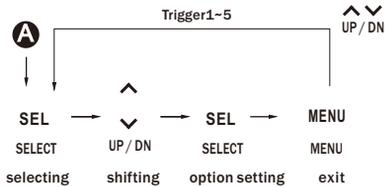


- User can use 5 triggers and each trigger source(CAM1~4;AUX;SPLIT1~3;SKIP) can be selected.
- When the trigger is activated, the selected source's image is displayed.

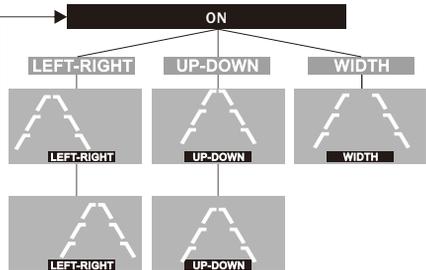
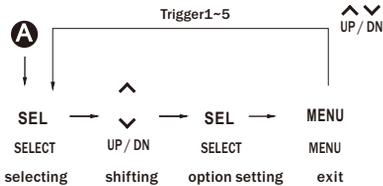
DELAY:[0~20SEC]

- Each trigger's delay time is adjustable from 0 sec to 20 sec.

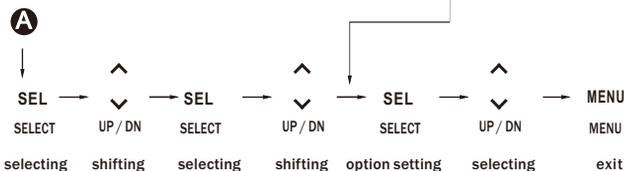
**NOTE** • If one camera is activated by an intermittent signal (e.g. from an indicator light's) the delay must be activated to prevent the picture from flickering.



MARKER:[ON;OFF]



MARKER SETTING

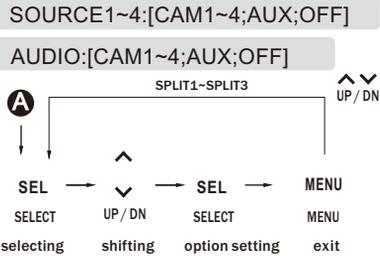




# OPERATION

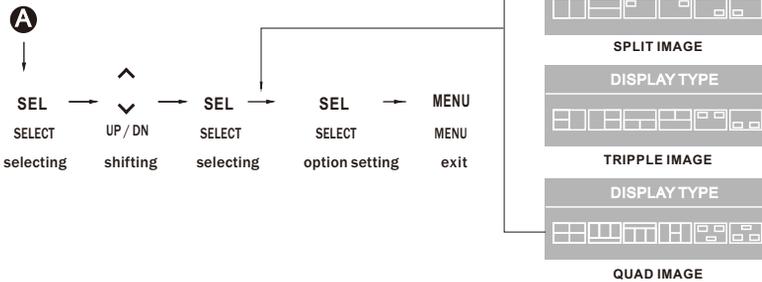
## 3 SPLIT SETTING

3. SPLIT SETTING	
SPLIT1	SOURCE1:[CAM1~4;AUX;OFF]
SPLIT2	SOURCE2:[CAM1~4;AUX;OFF]
SPLIT3	SOURCE3:[CAM1~4;AUX;OFF] SOURCE4:[CAM1~4;AUX;OFF] AUDIO:[CAM1~4;AUX;OFF] DISPLAY TYPE



- NOTE**
- Factory setting for SPLIT1 is SPLIT IMAGE, SPLIT2 is TRIPPLE IMAGE and SPLIT3 is QUAD IMAGE. However, SPLIT1 ~ 3 can be changed to desirable image type according to number of selected camera. EX.) In SPLIT1, SPLIT IMAGE, TRIPPLE IAMGE & QUAD IMAGE can be displayed according to selected number of camera. SPLIT2 & SPLIT3 are same as above.
  - Selected camera can't be selected in the other SOURCES.
  - Audio function is only available on selected channel.

### DISPLAY TYPE



- NOTE**
- Display type is automatically changed to SPLIT / TRIPPLE / QUAD image according to selected number of camera.
  - Display type is automatically changed to first image type in SPLIT / TRIPPLE / QUAD image in case of changing selected number of camera.



# OPERATION

## 4 SPEED SWITCH

**4. SPEED SWITCH**

SPEED SWITCH:[ON;OFF]  
 FREQUENCY:[10~1000Hz]  
 UNDER FREQUENCY CH:[CAM1~4;  
 AUX;SPLIT1~3]  
 OVER FREQUENCY DISPLAY:[ON;OFF]  
 OVER FREQUENCY CH:[CAM1~4;  
 AUX;SPLIT1~3]

SPEED SWITCH:[ON;OFF]

**NOTE** • Select “ON” to enter Menu Option.  
 • Select “OFF” to exit Menu Option.

FREQUENCY:[10~1000Hz]

**NOTE** • Select activated frequency 10~1,000Hz.

- Short Press “SELECT” button for 1Hz frequency increments.
- Long Press “SELECT” button for 10Hz frequency increments.

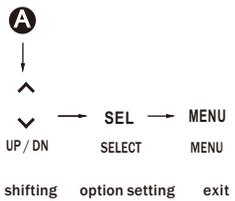
UNDER FREQUENCY CH:[CAM1~4;AUX;SPLIT1~3]

**NOTE** • Select channel when input frequency is lower than standard.

OVER FREQUENCY DISPLAY:[ON;OFF]

**NOTE** • Select “On” or “OFF” for displaying image when input frequency is higher than standard.

OVER FREQUENCY CH:[CAM1~4;AUX;SPLIT1~3]



**NOTE1** • Select channel image when the input higher frequency is higher than standard frequency.

**NOTE2** • **EXAMPLE OF SPEED SWITCH FUNCTION:**

- \*The purple wire needs to be connected with the vehicle’s tach signal and the SPEED SWITCH needs to be selected ON.
- \*Adjust FREQUENCY into 67Hz. At this setting (and most common used tach signal), the selected camera will be displayed during a speed of 0-33km/h.
- \*Select the desired camera via “UNDER FREQUENCY CH:” (At different type tach signals, the FREQUENCY needs to be adjusted into higher or lower value than this example)
- \*Over 33km/h (72Hz), the selected camera will be switched OFF automatically. When the speed slows down, then the selected camera will be switched ON automatically again at 30km/h. Instead of automatic switch OFF at a speed over 33km/h it is also possible to activate another video source, such as a navigation picture from an optional navigation computer. In this case, user needs to select “OVER FREQUENCY DISPLAY: ON” and user needs to select “OVER FREQUENCY CH:”
- \*In case of TRIGGER activation during “SPEED SWITCH ON” mode, then TRIGGERS 1~ 5 will overrule “SPEED SWITCH” function.



# OPERATION

## 5 DAY/NIGHT SETTING

### 5. DAY/NIGHT SETTING

SENSOR:[ON;OFF]  
SENSITIVITY:[0~60]  
NIGHT BRIGHT:[0~60]

SENSOR:[ON;OFF]

**NOTE** • Select "ON" to enter Menu Option.  
Select "OFF" to exit Menu Option.

SENSITIVITY:[0~60]

**NOTE** • Adjust the sensitivity of day/night level

NIGHT BRIGHT:[0~60]

**A**



shifting    option setting    exit

**NOTE** • Adjust BRIGHTNESS level.

## 6 AUTO SCAN SETTING

### 6. AUTO SCAN SETTING

AUTO SCAN:[ON;OFF]  
AUTO SCAN DELAY SETTING

AUTO SCAN:[ON;OFF]

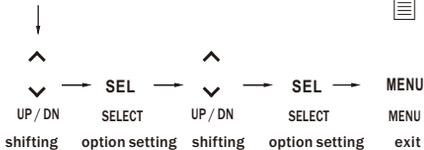
**A**



shifting    option setting    exit

**NOTE** • Select "ON" to enter Menu Option.  
• Select "OFF" to exit Menu Option.

**A**



**NOTE** • Each channel is displayed sequential according to time in "AUTO SCAN DELAY SETTING" .

- Press "SOURCE" key for holding channel.
- Selected channel is skipped if you set "AUTO SCAN DELAY TIME" to "0" .



# OPERATION

## 7 ADVANCED MENU

7. ADVANCED MENU

AUTO POWER:  
[OFF;ON;AUTO]

FACTORY RESET

AUTO POWER:[OFF;ON;AUTO]

A

↓

^

↓

↔ SEL ↔ MENU

UP / DN      SELECT      MENU

shifting    option setting    exit

- NOTE**
- Auto Setting Monitor keeps the last setting in memory: Monitor will start up “Power-on” mode or “Stand- by” mode according to its last mode before the ignition key off.
  - Off Setting Monitor keeps “Stand- by” setting regardless of the last mode before the ignition key off.
  - On setting: Monitor will be turned on automatically when ignition key on regardless of the last mode of the monitor before the ignition key off.

### FACTORY RESET

A

↓

^

↓

↔ SEL

UP / DN      SELECT

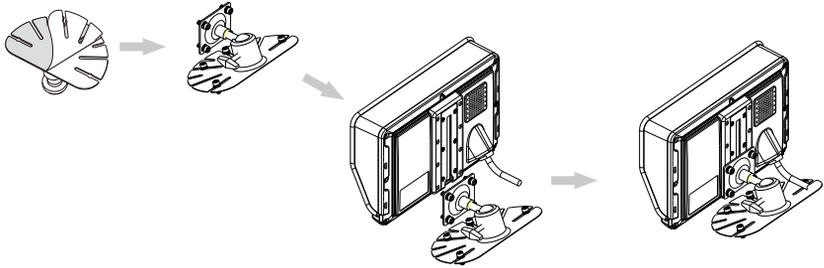
shifting    option setting

- NOTE**
- Reset for factory setting.

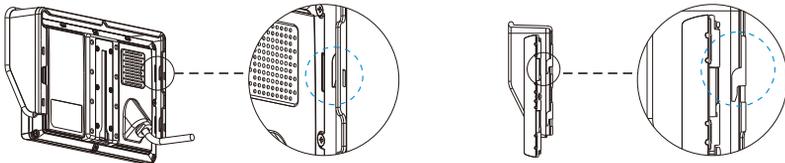
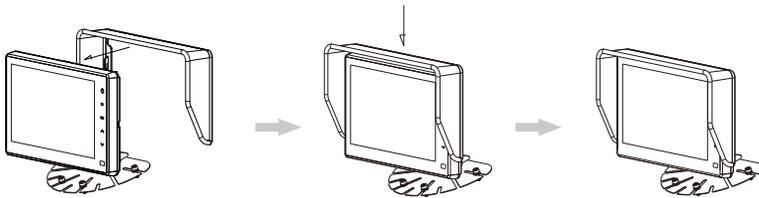


# INSTALLATION

**1** DASH BOARD → SCREW → MONITOR

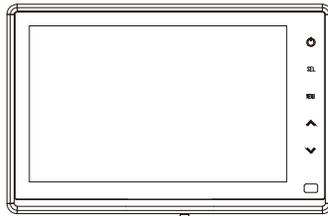


**2** SUNVISOR → MONITOR



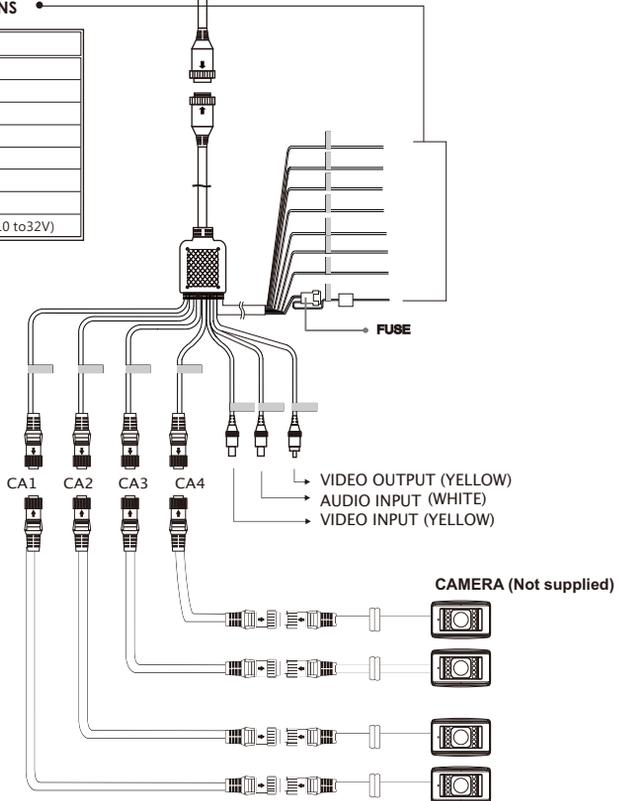


# SYSTEM CONNECTIONS



## POWER/TRIGGER WIRE FUNCTIONS

REF #	WIRE COLOR	DESCRIPTION
1	PURPLE	SPEED PURSE
2	YELLOW	TRIGGER5
3	ORANGE	TRIGGER4
4	GREEN	TRIGGER3
5	BROWN	TRIGGER2
6	BLUE	TRIGGER1
7	BLACK	GROUND
8	RED	POWER IN DC (10 to 32V)





# SPECIFICATIONS

## Model: VOM74SD

<b>Power Input</b>	<b>DC 10V~32V</b>
<b>Power Consumption</b>	<b>Max. 30Watt</b>
<b>Video System</b>	<b>NTSC / PAL compatible</b>
<b>Panel</b>	<b>7" Digital</b>
<b>Resolution</b>	<b>800 (H) X3(RGB) X 480 (V) pixels</b>
<b>Format</b>	<b>16:9 wide</b>
<b>Display Mode</b>	<b>Single/Split/Triple/Pip/Quad</b>
<b>Camera input(4CH)</b>	<b>4P IP CONNECTOR, 1Vp-p 75Ω</b>
<b>Operating Temp.</b>	<b>-30℃ ~ +75℃ (-22°F ~ 167°F)</b>
<b>Storage Temp.</b>	<b>-40℃ ~ +85℃ (-40°F ~ 185°F)</b>
<b>Vibration</b>	<b>10G</b>
<b>I.P Factor</b>	<b>IP 69K</b>
<b>OSD Control</b>	<b>Day &amp; Night Sensor</b>
	<b>Bright, Contrast, Color, Tint</b>
	<b>Mirror/Normal, Day/Night Mode/Scale</b>
	<b>*Individual Control per Channel available</b>
<b>Dimension</b>	<b>194(W) X 124(H) X 48(D) mm</b>
	<b>7.6(W) X 4.8(H) X 1.9(D) inch</b>
<b>Weight</b>	<b>Approx. 750g</b>
<b>Supplied acc'y</b>	<b>Power Cord (1)</b>
	<b>Screw Kit (1)</b>
	<b>Stand Bracket (1)</b>
	<b>Sun Visor (1)</b>
	<b>Instruction Manual (1)</b>



THIS SYMBOL MEANS DO NOT DISPOSE OF  
AS MUNICIPAL WASTE.  
RE-USE OR RECYCLE WHEREVER POSSIBLE.  
ELECTRICAL / ELECTRONIC COMPONENTS MAY  
CONTAIN SUBSTANCES WHICH ARE HARMFUL TO  
THE ENVIRONMENT.  
FOR ENVIRONMENTALLY SOUND METHODS OF  
DISPOSAL, PLEASE CONTACT YOUR LOCAL  
GOVERNMENT AUTHORITY.

