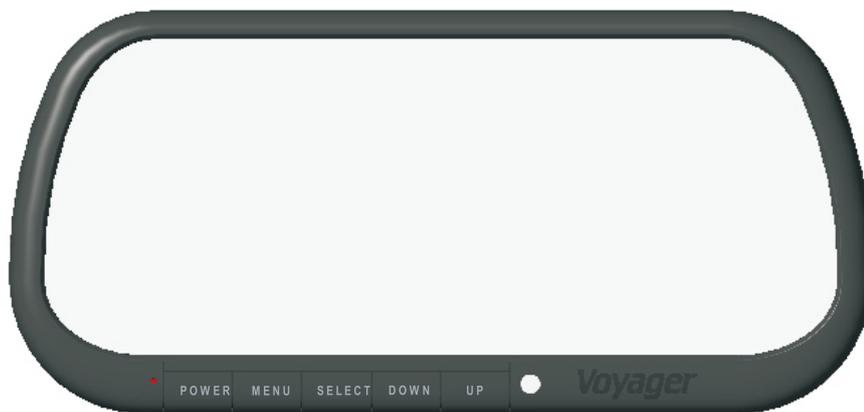


# Voyager<sup>®</sup>

## VOM73MMT

7" COLOR TFT LCD 3 CAMERA SPLIT MIRROR MONITOR  
OWNER'S MANUAL



### VOM73MMT Features

- High Performance Automotive Grade 7" Color LCD Panel
- 3 Camera Inputs with Split Display
- Mechanical Button
- Built-In Audio Speaker
- Compatible with Voyager Standard Camera

#### **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.

# VOM73MMT

## **Important! - Please Read This Manual Before Installing!**

Congratulations on your purchase of a Voyager VOM73MMT LCD Observation Monitor. With proper installation and use, your VOM73MMT LCD is designed to provide you with years of trouble-free operation. Please read this manual thoroughly before beginning.

All Voyager Observation products are strictly intended to be installed as supplement aid to standard rear-view mirror systems that may already exist in your vehicle. Voyager Observation products are not intended for use as substitutes for-view mirror devices, or for any other standard motor vehicle equipment required to be installed on vehicles by law.

While Voyager observation products contribute to improving the vehicle operator's field of view, these products are no substitute for proper defensive driving techniques and observance of traffic laws and motor vehicle safety regulations.

## **Warnings!**

**RED POWER WIRE MUST BE CONNECTED TO ACCESSORY TO AVOID CURRENT DRAW IN THE KEY OFF POSITION.**

## **Installation Location**

It is unlawful in most jurisdictions for a person to drive a motor vehicle equipped with a television viewer or screen located at any point forward of the back of the driver's seat or in any location that is visible, directly or indirectly, to the driver while operating the vehicle. The VOM73MMT product is designed to be used primarily as a rear observation device in conjunction with closed circuit camera. In any installations where the VOM73MMT is used to display television broadcasts or recorded video, playback, installation location must adhere to local laws and regulations.

## **Tampering**

To prevent electrical shock, **DO NOT OPEN THE MONITOR CASE**. There are potentially harmful voltages inside the monitor. If evidence of tampering is detected, the warranty will be considered void and all parts will be non serviceable. There are no user serviceable parts inside the warranty will be considered void.

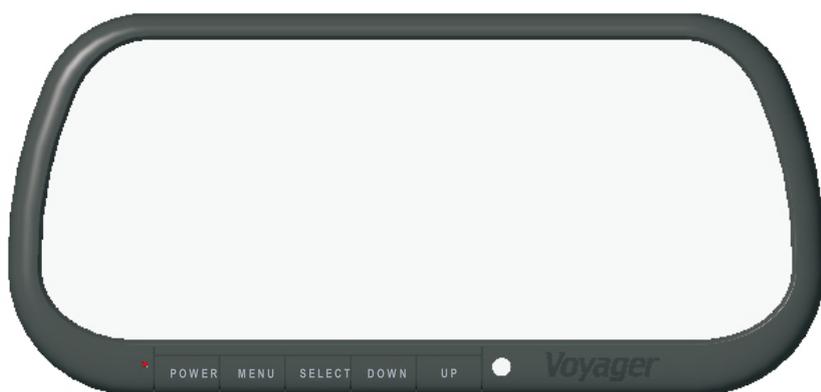
## **Moisture**

While it will withstand short periods of exposure to moisture, this product does contain sensitive electronic components and exposure should be limited by the user/installer. This product is not designed for locations where constant exposure to moisture or immersion can be encountered. This unit should NEVER be cleaned with a power washer or used where direct power washer spray may be encountered.

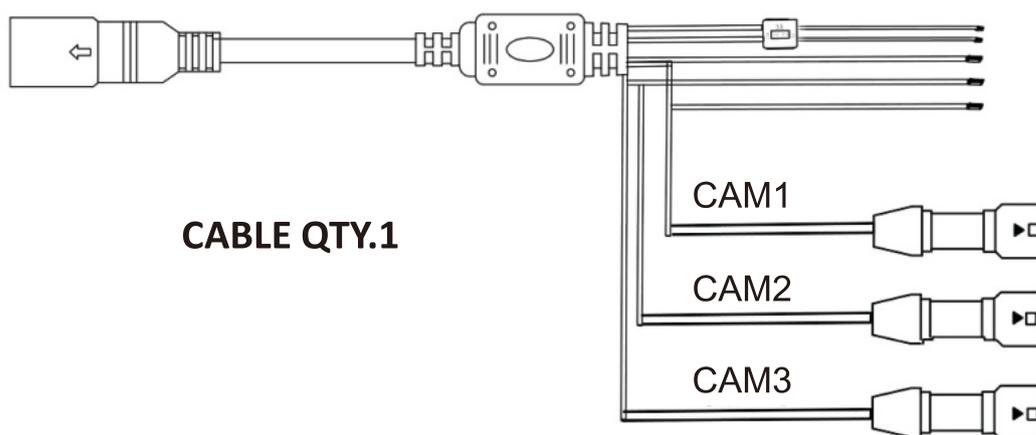
## **Depth of view**

OBJECTS VIEWED ON MONITOR ARE CLOSER THAN THEY APPEAR.

# PACKING CONTENTS



**LCD MONITOR QTY.1**



**CABLE QTY.1**



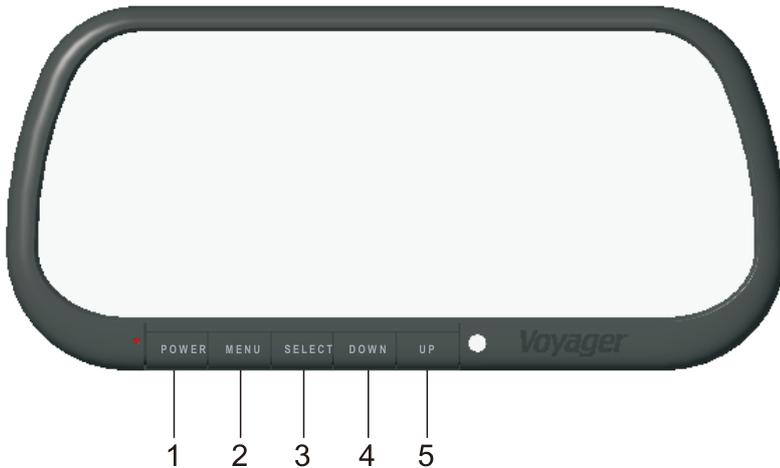
**METAL BRACKET QTY.1**



**MACHINE SCREW QTY.4 (M3X7mm)**

# VOM73MMT

## CONTROLS AND OPERATION



### 1, POWER ON/OFF



- Press once to turn on unit
- Press again to turn off unit

### 2, MENU



#### Primary Function Enter System Menu

- Press 'MENU' button to enter the System Menu

#### Secondary Function Return to previous menu

- While in menu modes, the 'MENU' button is used to return to previous menu.

#### Third Function: AUTO SCAN function

- Press the 'MENU' button for 3 seconds to achieve the auto scan function.

### 3, SELECT



#### Primary Function Input Source Select

- Press to switch camera channels, switch order as below



#### Secondary Function Menu Option Selection

- While in menu mode, the 'SELECT' button is used to select the highlighted function or option setting.

### 4 & 5 , UP/DOWN



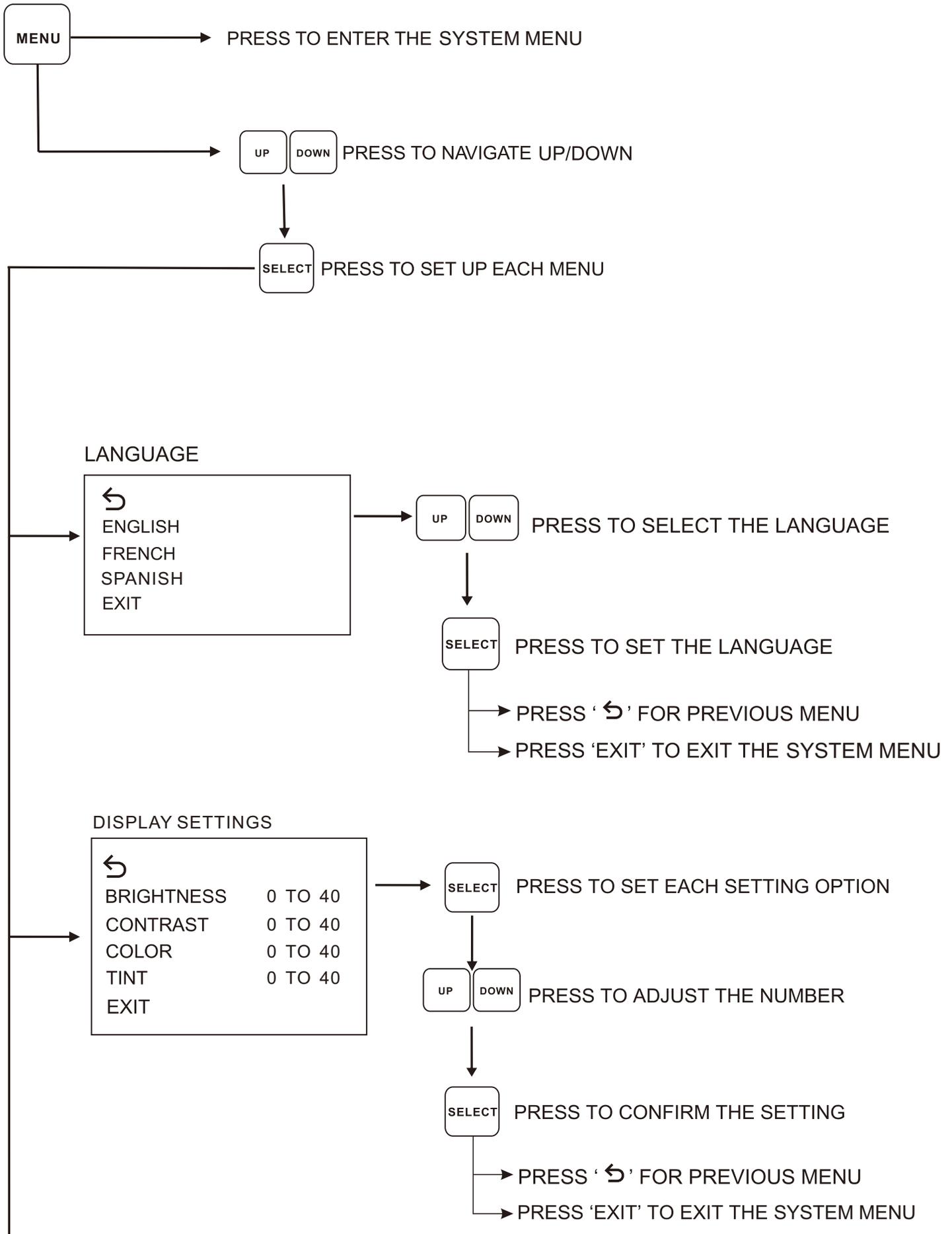
#### Primary Function

- Pressing 'UP' button increase brightness, contrast, color, tint, volume or sleep.
- Pressing 'DOWN' button decrease brightness, contrast, color, tint, volume or sleep.

#### Secondary Function

- While in menu modes, the 'UP' 'DOWN' are used to select the option setting.

# MENU



MIRROR

←	
CAMERA 1	ON, OFF
CAMERA 2	ON, OFF
CAMERA 3	ON, OFF
EXIT	

SELECT

PRESS TO SET EACH CAMERA SETTING

UP DOWN

PRESS TO SELECT THE CAMERA IMAGE

SELECT

PRESS TO CONFIRM THE SETTING

→ PRESS '←' FOR PREVIOUS MENU

→ PRESS 'EXIT' TO EXIT THE SYSTEM MENU

OPTION

←	
VIEW MODE	CAMERA1, SPLIT, MULTI_T, MULTI_H, AUTO SCAN
PICTURE MODE	STANDARD, SOFT, VIVID, LIGHT
UNITS	FEET, METERS
KEYLED	MODE1 MODE2 MODE3 MODE4
DIM	DAY, NIGHT
EXIT	

SELECT

PRESS TO SET EACH SETTING OPTION

UP DOWN

PRESS TO SELECT EACH SETTING OPTION

SELECT

PRESS TO CONFIRM THE SETTING

→ PRESS '←' FOR PREVIOUS MENU

→ PRESS 'EXIT' TO EXIT THE SYSTEM MENU

CAM SOURCE

←	
SPLIT	
MULTI	
EXIT	

SELECT

PRESS TO SET EACH SETTING OPTION

UP DOWN

PRESS TO SELECT EACH SETTING OPTION

SELECT

PRESS TO CONFIRM THE SETTING

→ PRESS '←' FOR PREVIOUS MENU

→ PRESS 'EXIT' TO EXIT THE SYSTEM MENU

"SPLIT"

↶		
SOURCE1	CH1	
SOURCE2	CH2	
EXIT		

SELECT

PRESS TO SET EACH SETTING OPTION

UP

DOWN

PRESS TO SELECT EACH SETTING OPTION

SELECT

PRESS TO CONFIRM THE SETTING

PRESS '↶' FOR PREVIOUS MENU

PRESS 'EXIT' TO EXIT THE SYSTEM MENU

"MULTI"

↶		
SOURCE1	CH1	
SOURCE2	CH2	
SOURCE3	CH3	
EXIT		

SELECT

PRESS TO SET EACH SETTING OPTION

UP

DOWN

PRESS TO SELECT EACH SETTING OPTION

SELECT

PRESS TO CONFIRM THE SETTING

PRESS '↶' FOR PREVIOUS MENU

PRESS 'EXIT' TO EXIT THE SYSTEM MENU

AUTO SCAN DELAY

↶		
CAMERA1	0 SEC TO 10 SEC	
CAMERA2	0 SEC TO 10 SEC	
CAMERA3	0 SEC TO 10 SEC	
EXIT		

SELECT

PRESS TO SET EACH SETTING OPTION

UP

DOWN

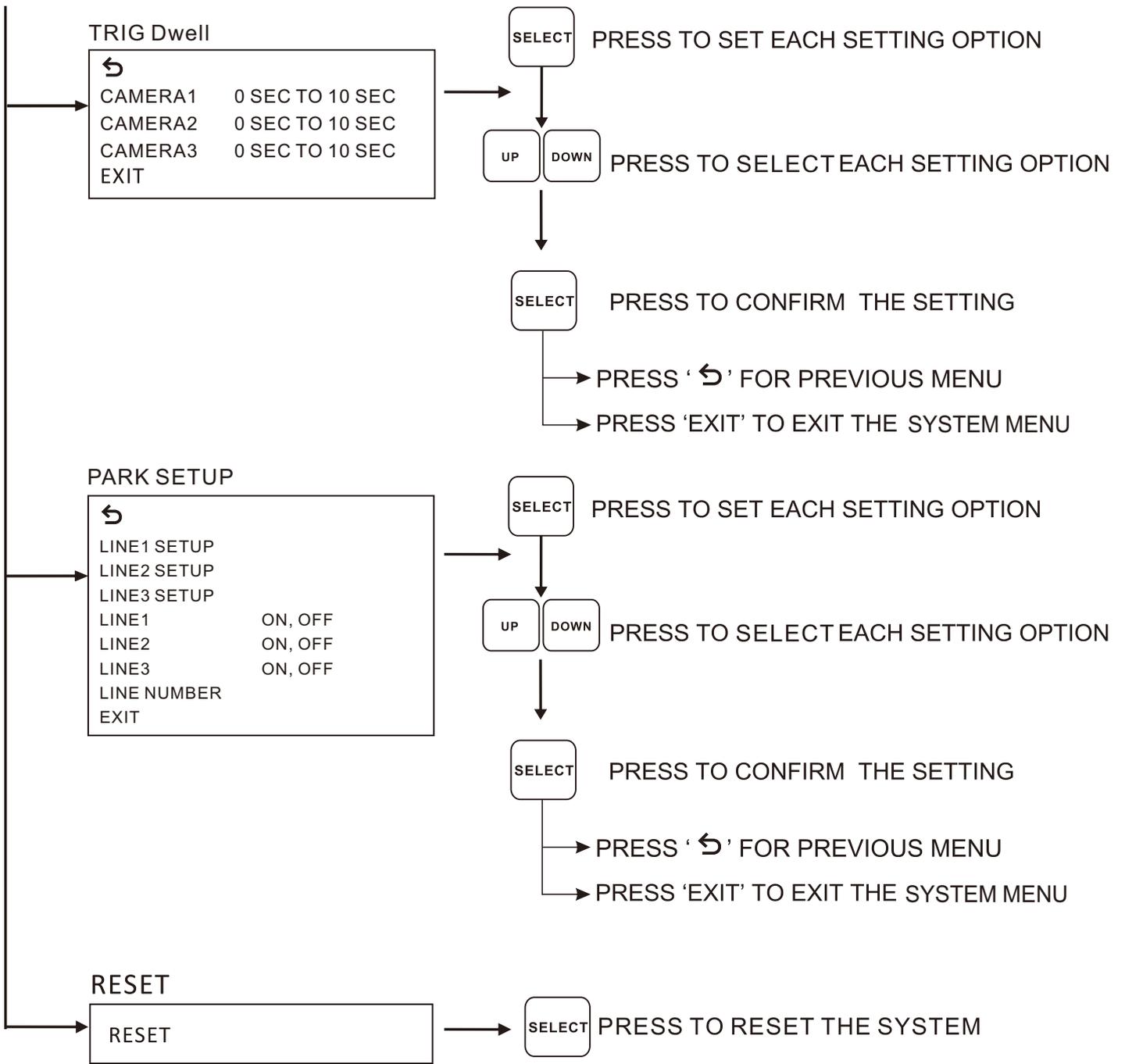
PRESS TO ADJUST THE NUMBER

SELECT

PRESS TO CONFIRM THE SETTING

PRESS 'RETURN' FOR PREVIOUS MENU

PRESS 'EXIT' TO EXIT THE SYSTEM MENU



# VOM73MMT

## INSTALLATION INSTRUCTIONS

### BEFORE YOU BEGIN INSTALLATION:

Before drilling be sure that no cable or wiring is on the other side. Clamp all wires securely to reduce the possibility of them being damaged during installation and use. Keep all cables away from hot or moving parts, and electrically noisy components.

### Wiring Definitions:

- Power connection:

Pin 1	POWER IN DC (12V) -Red
Pin 2	GROUND -Black
Pin 3	CHANNEL 1 TRIGGER -Blue
Pin 4	CHANNEL 2 TRIGGER -Brown
Pin 5	CHANNEL 3 TRIGGER -Green
- Camera 1 input: 4-Pin Connection for camera or camera extension cable
- Camera 2 input: 4-Pin Connection for camera or camera extension cable
- Camera 3 input: 4-Pin Connection for camera or camera extension cable
- LCD panel: 13-Pin Large DIN cable connection to monitor

### General:

1. Choose the monitor and camera locations.
2. Install all required cables in vehicle. A 3/4"(19mm) hole should be drilled for passing camera cables through vehicle wall , barriers, etc.  
Install split grommets where applicable. If additional cable protection is required install convoluted tubing over the cable.
3. After cable/wiring has been routed and components in place, temporarily make all system connections and perform a system function check. If system does not operate properly, see the troubleshooting section regarding cable.
4. Make sure all cables are routed away from hot or moving parts, and away from sharp edges. Secure cables with wire ties.

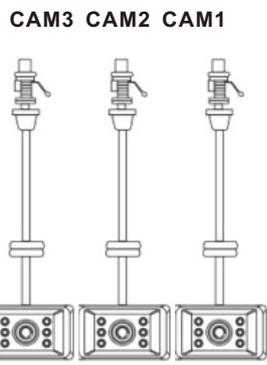
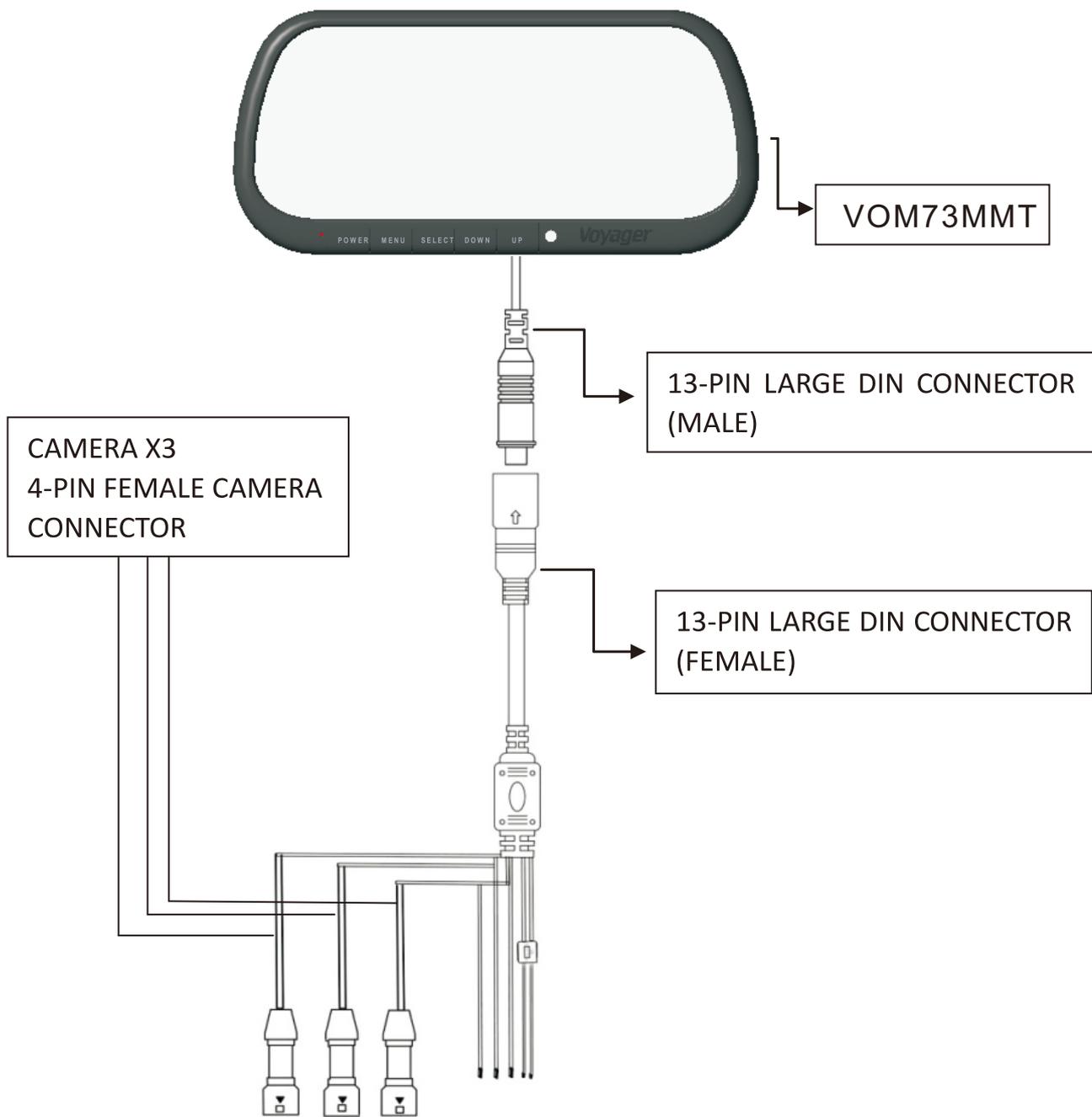
### Backup (Rear) Camera

- Rear-mounted camera used for monitoring while backing up must be connected to the CAM1 input. Trigger1 must be connected to the reverse gear light circuit.

### Side Camera

- The side mounted camera should be connected to the CAM2 and CAM3 inputs. Trigger lines 2 and 3 should be connected to the vehicle's turn signal circuits.

# TYPICAL SYSTEM CONNECTION



## POWER/TRIGGERWIRE FUNCTIONS

REF #	WIRE COLOR	DESCRIPTION
1	RED	POWER IN 12VDC
2	BLACK	GROUND
3	BLUE	TRIGGER1 (CAM1)
4	BROWN	TRIGGER2 (CAM2)
5	GREEN	TRIGGER1 (CAM3)

# VOM73MMT

## PRODUCT SPECIFICATIONS

### LCD PANEL SPECIFICATIONS

<b>Size/Type</b>	7"(Digital) TFT LCD	
<b>Brightness</b>	400 cd/m' (typ)	
<b>Contrast Ratio</b>	500	
<b>View Angles</b>	Top (12 O'clock)	40° (typ)
<b>(@CR≥10)</b>	Bottom (6 O'clock)	60° (typ)
	Horizontal	60° (typ)
<b>Response Time</b>	15ms	
	20ms	
<b>Back Light Type</b>	LED	
<b>Back Light Life</b>	50,000 hrs (min)	

- **Operation Temperature Range** : -20° C ~ +70° C
- **Storage Temperature Range** : -30° C ~ +80° C
- **Max Humidity** : 85%
- **Operation Voltage Range** : 12VDC
- **Current Draw (typical)** : 337mA@12VDC
- **Signal system** : NTSC or PAL (Auto detection)
- **Video Aspect Ratio** : 16 : 9
- **Input Level**: 1Vp-p 75Ω
- **Audio Input Level** : 150mV(Max)
- **Product Dimensions** : 10.04W x 4.72H x 1.24D (Inches)
- **Product Weight** : 2.65 lbs/1200g

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