

Voyager[®]

E X P A N D your vision™

VOM74TQ

7" MONITOR OWNER'S MANUAL

TOUCH QUAD TFT LCD 4 CAMERA



VOM74TQ Features:

- High-Performance Automotive Grade 7" Color LCD Touch Panel
- 4 Camera Inputs
- PAL / NTSC Compatible
- DC Auto Source Switching Triggers (Turn Signal Compatible)
- Backlit Control Buttons
- Built-in Audio Speaker
- Manual Day / Night Display Brightness Modes
- 15 display modes

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.

VOM74TQ

IMPORTANT! - Please Read This Manual Before Installing!

Congratulations on your purchase of a Voyager VOM74TQ LCD Observation Monitor. With proper installation and use, your VOM74TQ 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 a 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 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 VOM74TQ product is designed to be used primarily as a rear observation device in conjunction with closed circuit camera. In any installations where the VOM74TQ is used to display television broadcasts or recorded video, playback, installation location must adhere to local laws and regulations.

Tempering

To prevent electrical shock, **DO NOT OPEN THE MONITOR CASE.** There are potentially harmful voltages inside the monitor. There are no user serviceable parts inside.

If evidence of tampering is detected, the warranty will be considered void.

Moisture

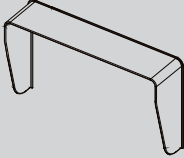
While it will withstand short periods of exposure to moisture, this product does contain sensitive electronic components and exposure to moisture should be limited by the user/installer. This product is not designed for use where constant exposure to moisture or immersion can be encountered. This unit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

Depth of view

OBJECTS VIEWED IN MONITOR ARE CLOSER THAN THEY APPEAR.

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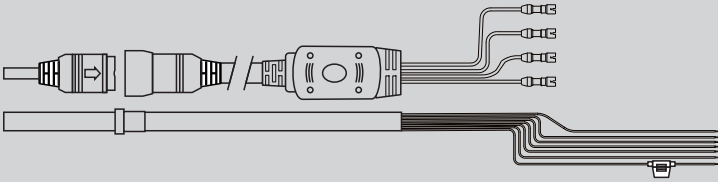
PACKING CONTENTS



SUN SHIELD
QTY. 1



LCD MONITOR
QTY. 1



CABLE
QTY. 1



Machine Screw
M4X8mm
QTY. 4

VOM74TQ

CONTROLS AND OPERATION



1 2 3 4 5 6 7

1. POWER ON/OFF

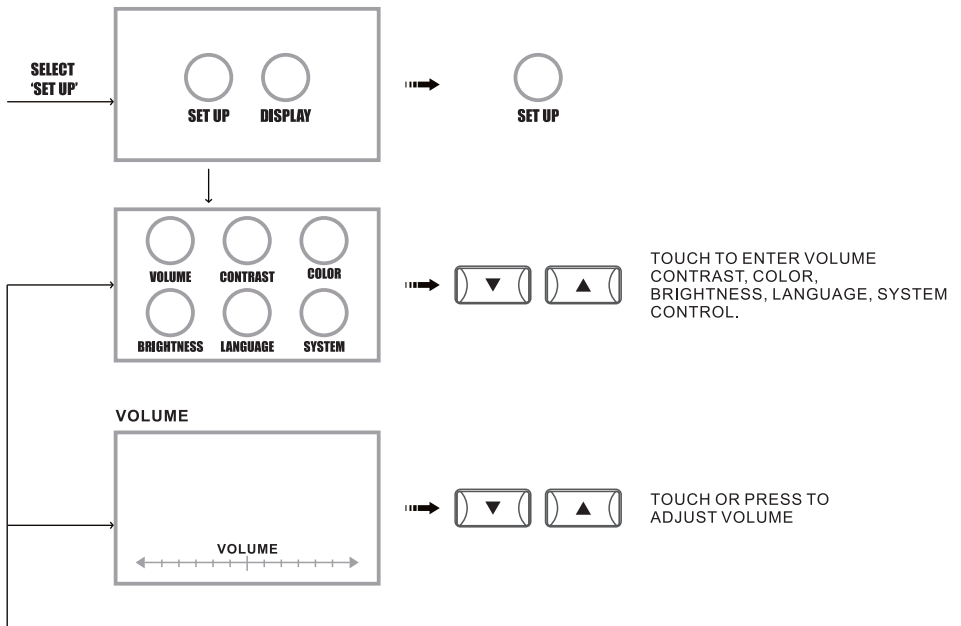


- Press once turns unit on
- Press again turns unit off
- When power applied and unit is off, only the power button is backlit.
- When unit is turned on, all buttons are backlit.

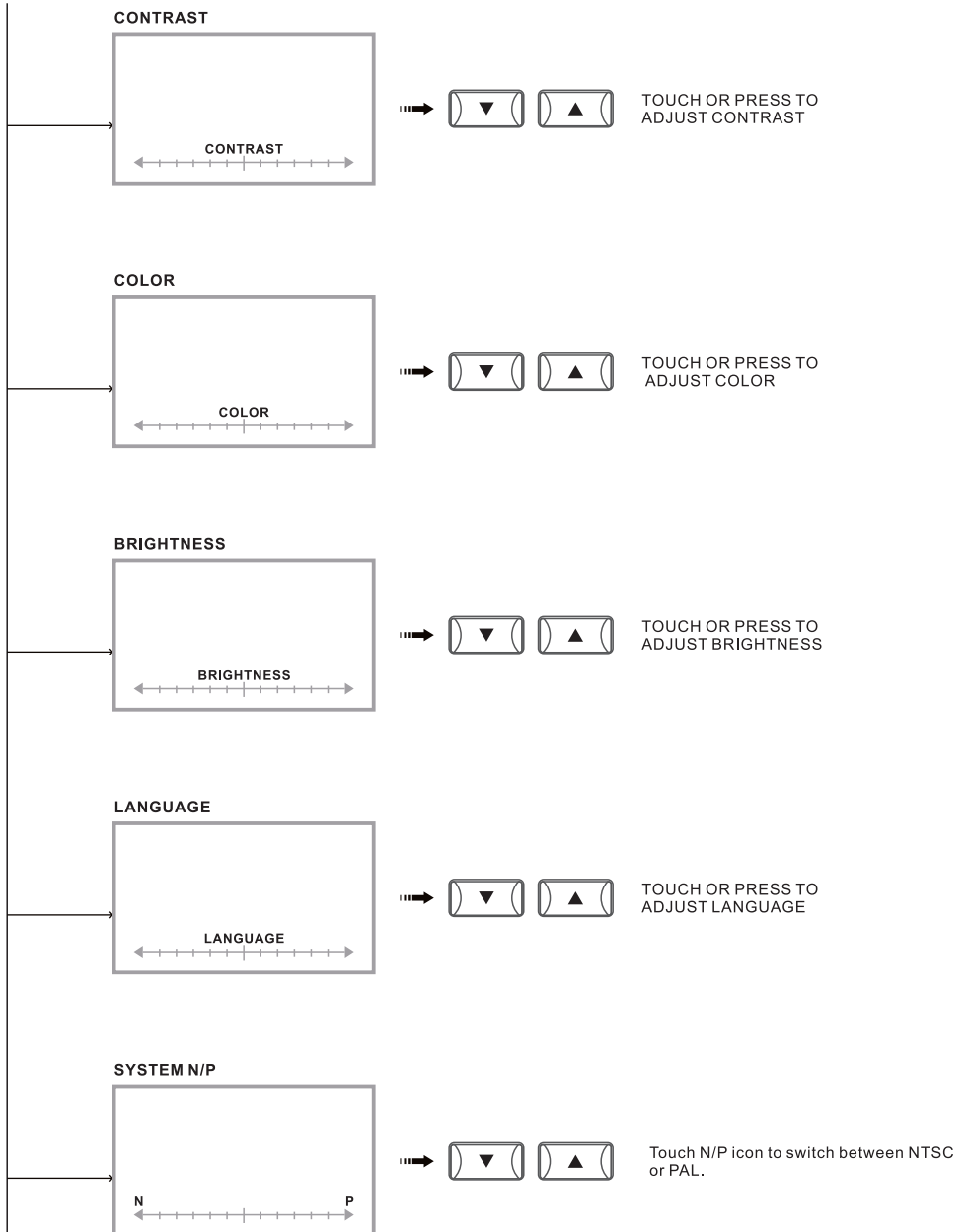
2. MENU



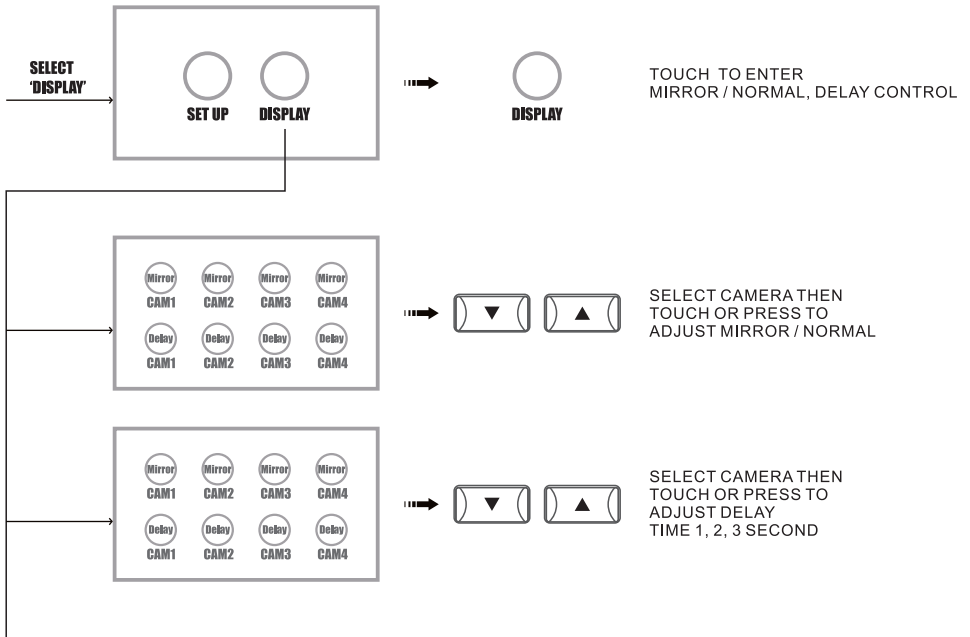
- Press once to enter main menu mode



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3. AUTO SCAN



- Pressing "AUTO SCAN" button sequences display through "CAM1", "CAM2", "CAM3" and "CAM4" modes.
- Press again to pause auto scan mode.

4. DIMMER



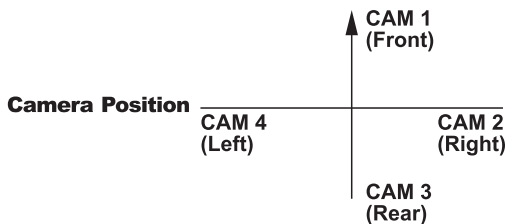
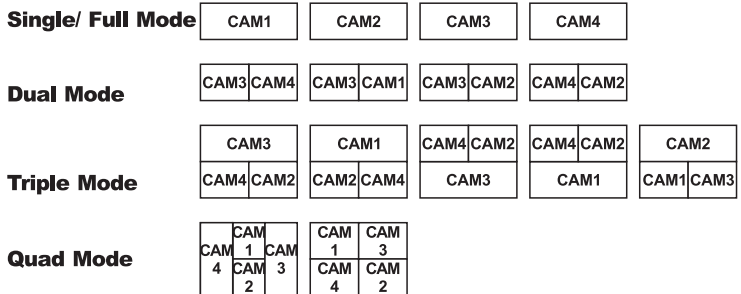
- Pressing "DIMMER" button sequences day/night backlight compensation through "Day", "Night 1", "Night 2", "Night 3" and "USER" modes.

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5. SOURCE



-While in Menu mode, the “SOURCE” button is used to select one of 15 display modes.



6. VOLUME



Primary Function Speaker Volume Control

- Press the button to increase the speaker volume
- Press the button to decrease the speaker volume



Second Function Menu Option Setting Selection

-While in certain Menu modes, the and button adjust setting through available menu settings.

Note : Camera audio is only supported on the camera 3 input

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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 (9.5V~32V)-Red (Ignition)
 - Pin 2 GROUND -Black
 - Pin 3 CAMERA 1 TRIGGER -Blue
 - Pin 4 CAMERA 2 TRIGGER -Brown
 - Pin 5 CAMERA 3 TRIGGER -Green
 - Pin 6 CAMERA 4 TRIGGER -Orange
 - Pin 7 2 - WAY SPLIT TRIGGER -Yellow
- 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
- Camera 4 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 walls, 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.
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 cameras used for monitoring while backing up must be connected to the CAM3 input. Trigger#3 must be connected to the reverse gear light circuit in the vehicle.

Side Camera

- If side monitoring cameras are installed, they should be connected to CAM2 and CAM4. Trigger 2 and Trigger 4 should be connected to the vehicle's turn signal circuits, or other functions the user may want to monitor.

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TYPICAL SYSTEM CONNECTION



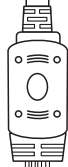
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MONITOR



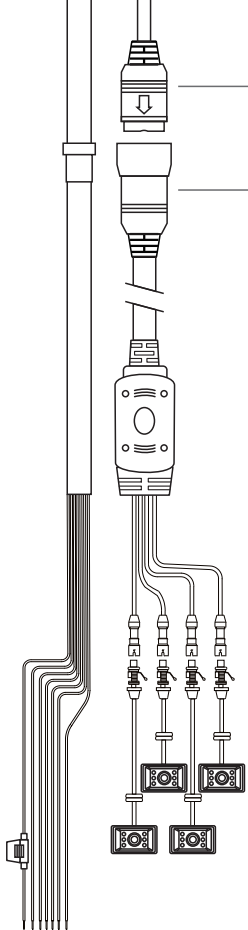
13-PIN LARGE DIN
CONNECTOR
(MALE)



13-PIN LARGE DIN
CONNECTOR
(FEMALE)



CAMERA X 4
4-PIN FEMALE
CAMERA CONNECTOR



POWER / TRIGGER WIRE FUNCTIONS

REF	WIRE COLOR	DESCRIPTION
1	RED	POWER IN DC 9.5 ~ DV 32V
2	BLACK	GROUND
3	BLUE	TRIGGER 1 (CAM 1)
4	BROWN	TRIGGER 2 (CAM 2)
5	GREEN	TRIGGER 3 (CAM 3) (AUDIO ON)
6	ORANGE	TRIGGER 4 (CAM 4)
7	YELLOW	TRIGGER SPLIT (CAM2/CAM4)

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PRODUCT SPECIFICATIONS

LCD PANEL SPECIFICATIONS

Size/Type	7" (DIAGONAL) TFT LCD	
Brightness	400 cd/m ²	
Contrast Ratio	400	
View Angles	Top (12 o'clock)	50°
(@ CR>-10)	Bottom (6 o'clock)	70°
	Horizontal	± 70°
Response Time	Rise: 10 ms	
	Fall: 15 ms	
Back Light Type	LED	
Back Light Life	20,000 hrs (min)	

- **Operation Temperature Range** : -20°C ~ +65°C
- **Storage Temperature Range** : -30°C ~ +80°C
- **Max Humidity** : 85%
- **Operation Voltage Range** : DC 9.5V ~ 32V
- **Current Draw (typical)** : 600mA @ 12VDC
- **Signal system** : NTSC or PAL (Selectable)
- **Video Aspect Ratio** : 16:9
Input Level : 1Vp - p 75Ω
- **Audio Input Level** : 150mV (Max)
- **Product Weight** : 1.43 lbs / 650g
- **Product Dimensions** : Monitor Only Dimensions
7.75 W X 5.25 H X 1.25 D inches

RESET

Press  and  for more than 3 seconds, the screen will show up "V012 DEFAULT SET", the monitor will return to factory setting.



12 MONTH LIMITED WARRANTY

ASA Electronics (ASA) warrants to the original retail purchaser of this Voyager product that should this product or any part thereof, under normal use and conditions, be proven defective in material or workmanship within 12 months from the date of original purchase, such defect(s) will be repaired or replaced (at ASA's option) without charge for parts and repair labor.

To obtain repair or replacement within the terms of this warranty, contact ASA at (888) 283-7374. The product is to be delivered with proof of warranty coverage (dated bill of sale), specification of defect(s) with purchaser's name and return address, transportation prepaid to ASA at the address shown provided at the time of return authorization.

This warranty does not extend to the effects of this device on other devices, to costs incurred for removal or reinstallation of the product, or to damage of any product, accessories, or electrical system(s). This warranty does not apply to any product or part thereof which, in the opinion of the company, has been damaged through alteration, improper installation, mishandling, misuse, neglect, or accident.

THE EXTENT OF ASA'S LIABILITY UNDER THIS WARRANTY IS LIMITED TO THE REPAIR OR REPLACEMENT PROVIDED ABOVE, AND, IN NO EVENT, SHALL ASA'S LIABILITY EXCEED THE PURCHASE PRICE PAID BY THE PURCHASER FOR THE PRODUCT.

This warranty is in lieu of all other express warranties or liabilities. ANY IMPLIED WARRANTIES, INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY, SHALL BE LIMITED TO THE DURATION OF THIS WARRANTY. ANY ACTION FOR BREACH OF ANY WARRANTY HEREUNDER INCLUDING WARRANTY OF MERCHANTABILITY MUST BE BROUGHT WITHIN A PERIOD OF 30 DAYS FROM THE DATE OF ORIGINAL PURCHASE. IN NO CASE SHALL ASA BE LIABLE FOR ANY CONSEQUENTIAL OR INCIDENTAL DAMAGES FOR BREACH OF THIS OR ANY OTHER WARRANTY, EXPRESS OR IMPLIED, WHATSOEVER. No person or representative is authorized to assume for the company any liability other than expressed herein in connection with the sale of this product.

ASA Electronics
(888) 283-7374

IMPORTANT WARRANTY INFORMATION

**DO NOT RETURN DEFECTIVE PRODUCT
TO YOUR PLACE OF PURCHASE**

CONTACT VOYAGER @ 1-888-283-7374

Please place this Warranty Agreement and a copy of your sales receipt in a safe and secure location, along with your other valuable documents.



www.asaelectronics.com

For further technical support call :
1-877-305-0445