

NSM-7451QT

7" MONITOR OWNER'S MANUAL

TOUCH QUAD TFT LCD 4 CAMERA



CM751TMQ-L4 Features:

- High-Performance Automotive Grade 7" Color LCD Touch Panel
- 4 Camera Inputs
- PAL / NTSC Compatible
- DC Auto Source Switching Triggers (Turn Signal Compatible)
- Built-in Audio Speaker
- 15 display modes
- Touch Function

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.

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°
Responses 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

IMPORTANT! - Please Read This Manual Before Installing!

Congratulations on your purchase of our LCD Observation Monitor. With proper installation and use, your VOM74TQ LCD is designed to provide you with years of trouble-free operation the unit. Please read this manual thoroughly beginning.

Our Observation products are strictly intended to be installed as supplement aid to standard rear-view mirror systems that may already exist in your vehicle. 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.

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 monitor product is designed to be used primarily as a rear observation device in conjunction with closed circuit camera. In any installations where the monitor 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.

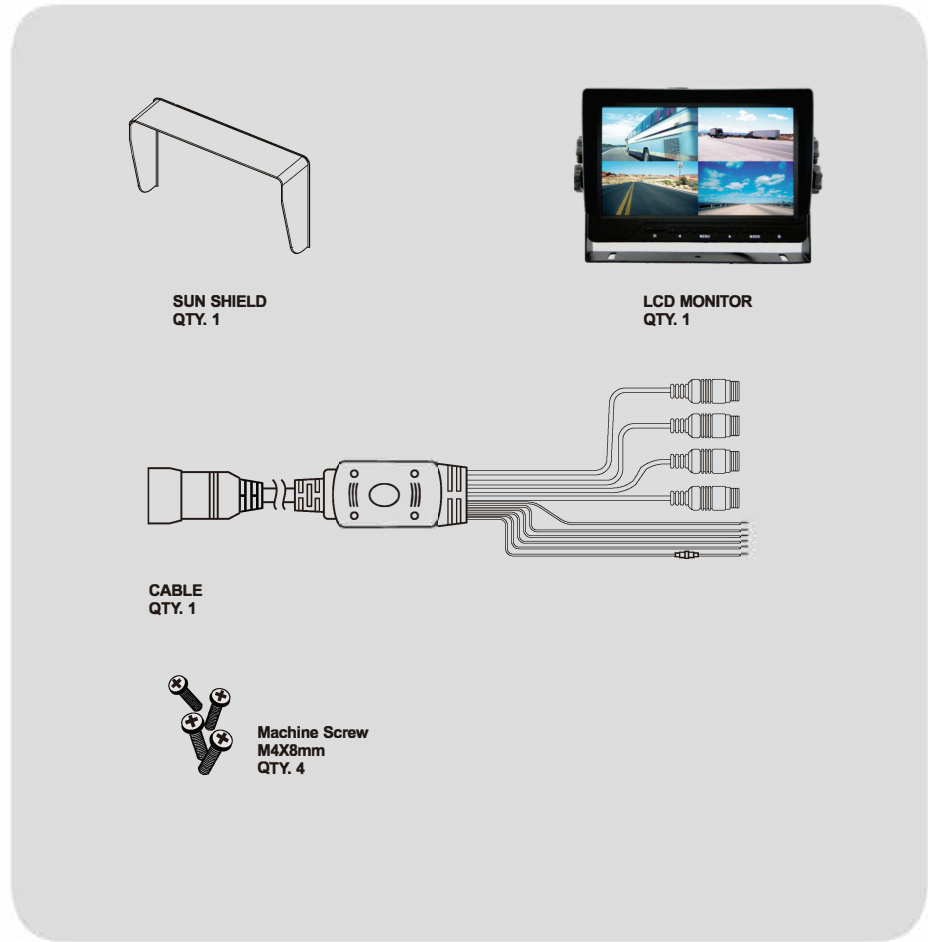
Moisture

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 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.

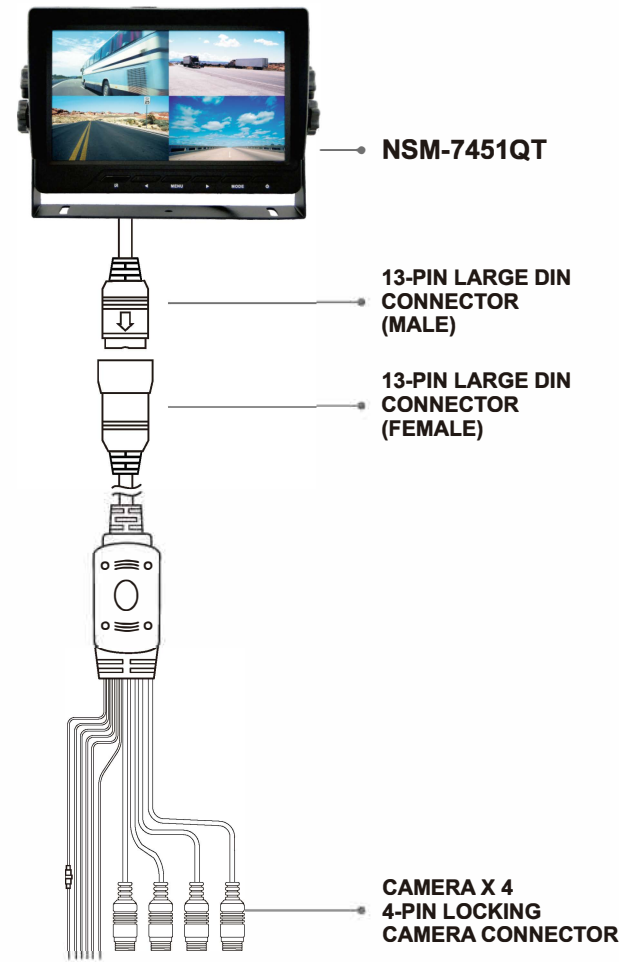
Depth of view

OBJECTS VIEWED IN MONITOR ARE CLOSER THAN THEY APPEAR.

PACKING CONTENTS



TYPICAL SYSTEM CONNECTION



POWER / TRIGGER WIRE FUNCTIONS

REF	WIRE COLOR	DESCRIPTION
1	RED	POWER IN DC 9.5 ~ DV 32V
2	BLACK	GROUND
3	BLUE	TRIGGER 1 (FRONT)
4	BROWN	TRIGGER 2 (LEFT)
5	GREEN	TRIGGER 3 (BACK) (AUDIO ON)
6	ORANGE	TRIGGER 4 (RIGHT)

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 FRONT TRIGGER -Blue
 - Pin 4 CAMERA LEFT TRIGGER -Brown
 - Pin 5 CAMERA BACK TRIGGER -Green
 - Pin 6 CAMERA RIGHT TRIGGER -Orange
- Camera FRONT input: 4-Pin Connection for camera or camera extension cable
- Camera LEFT input: 4-Pin Connection for camera or camera extension cable
- Camera BACK input: 4-Pin Connection for camera or camera extension cable
- Camera RIGHT 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 BACK 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 LEFT and RIGHT. Trigger 2 and Trigger 4 should be connected to the vehicle's turn signal circuits, or other functions the user may want to monitor.

CONTROLS AND OPERATION



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. MODE



- While in Menu mode, the "MODE" button is used to select 15 display modes.

Single/ Full Mode	FRONT	LEFT	BACK	RIGHT
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Dual Mode	BACK	RIGHT	BACK	FRONT	BACK	LEFT	RIGHT	LEFT
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Triple Mode	BACK		FRONT		RIGHT	LEFT	RIGHT	LEFT
	RIGHT	LEFT	LEFT	RIGHT	BACK		FRONT	

Quad Mode	LEFT	
	FRONT	BACK

Quad Mode	RIGHT	FRONT	LEFT	FRONT	BACK
		BACK		RIGHT	LEFT



3. 5. VOLUME



Primary Function Speaker Volume Control

-Press the button to increase the speaker volume

-Press the button to decrease the speaker volume



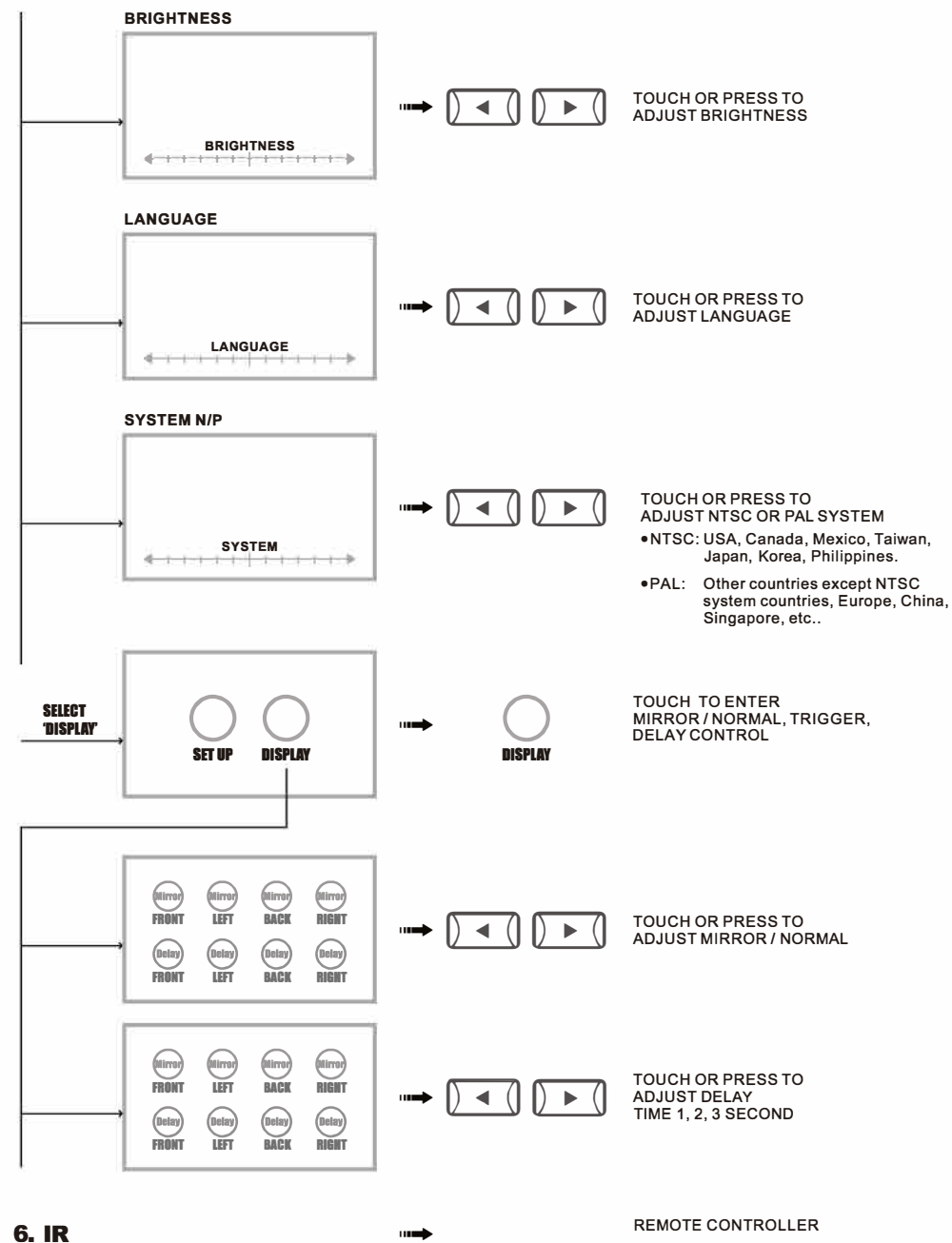
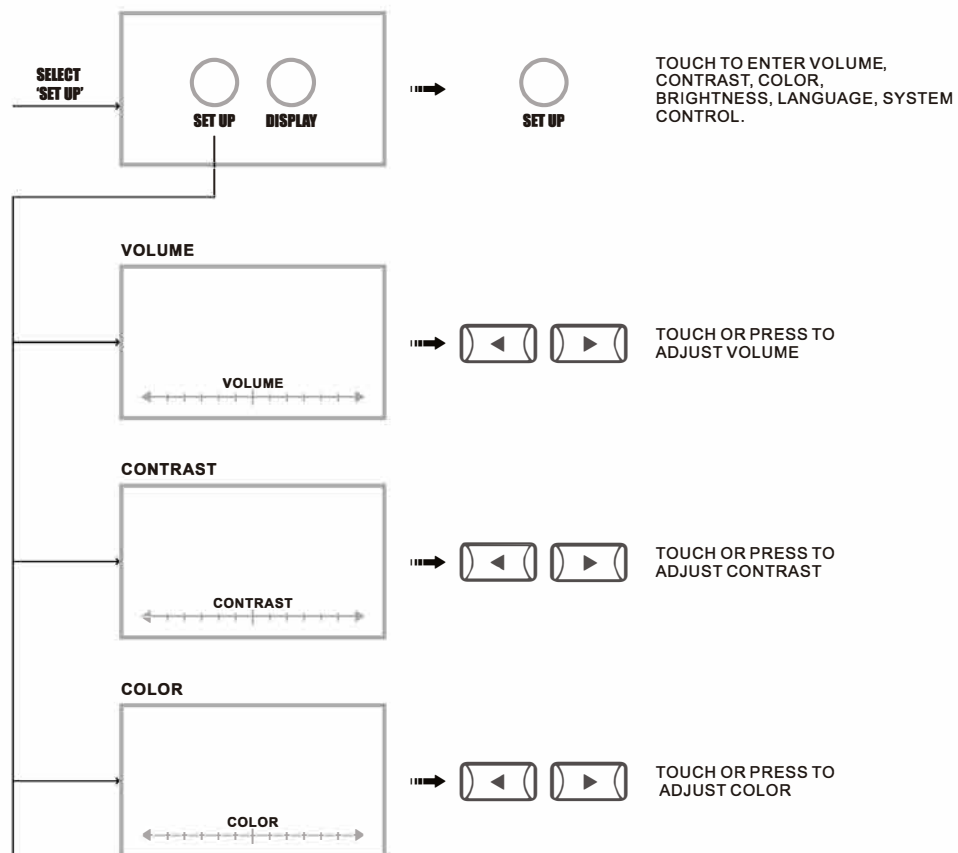
Second Function Menu Option Setting Selection

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

4. MENU



-Press once to enter main menu mode



6. IR



REMOTE CONTROLLER