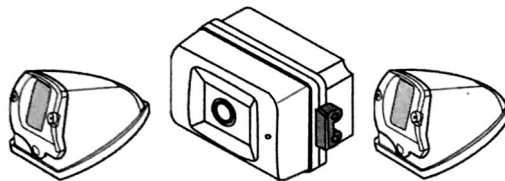




# Rearview System For Vehicle Installation & Operation



**Model No. STM-7000Q**  
**CC-45 & CC-82**



**7" TFT Digital LCD Monitor**



**Important – Please Read This Manual Before Installing.**



**Objects Viewed In Monitor Are Closer Than They Appear.**

The STM-7000Q is Not Intended To Replace Any of Your Vehicles Mirrors or Other Safety Devices.

It is Not a Substitute For Proper Defensive Driving Techniques.

Please Obey All Traffic Laws And Motor Vehicles Safety Regulations.

Do Not Open Monitor or Camera Housing.

There Are No Parts That Can Be Serviced.

Opening Monitor Or Camera Housings Will Void Your Warranty.

Red Power Wire Must Be Connected To Accessory That is Turned Off When Key is Removed From Vehicle To Prevent Power Draw.

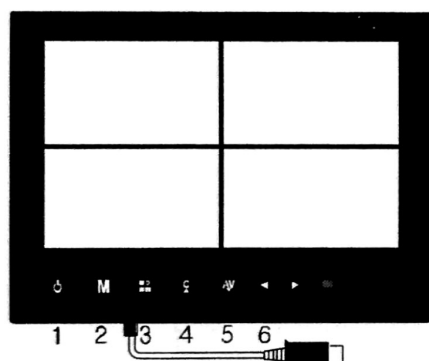
# 1. FEATURE

## Monitor

The Digital STM7000Q Touch Monitor is Designed For The Commercial Trucking Industry. It Is Built To Withstand The Shock And Vibration Associated With Industrial Applications.

- ▶ Support 8 Languages (English, Spanish, French, Germany, Italian, Dutch, Finnish, Russian)
- ▶ Red Icon Blinking On Screen When Vehicle Gear Switch to Reverse Mode
- ▶ Support 4 Cameras Input (W/ A/V Input)
- ▶ Support Split Screen Mode, Triple, Quad Mode
- ▶ Adjustable On Screen Distance Marker
- ▶ Support Dimmer Feature For Night Viewing
- ▶ Normal/Mirror Mode Support
- ▶ Support AUX A/V Input & Output
- ▶ Support Trigger Function
- ▶ 10 ~ 32V DC Free Voltage Operation

# 2. MONITOR CONTROLS



## 1) POWER

- Any key can make power ON, Power button can make power OFF (Red Lamp to Blue Lamp)

## 2) MENU

- Menu button goes into the OSD menu

## 3) QUAD DISPLAY

- Touch the QUAD (PIP) button to enter the QUAD -> 3PIP (CA1 LARGE, CA3/4/5 SMALL) -> 2PIP (CA1 LARGE, CA3/2 SMALL) -> 3 SPLIT (CA1/CA2/CA3) -> 2 SPLIT (CA3/CA2) -> 2 SPLIT (CA4/CA1) -> QUAD


## 4) CAMERA SELECT

- Touch the camera button. Continuous touch shows CA1-> CA2 -> CA3 -> CA4

### 5) AV SELECT

- Connect A/V input to the second camera or an external device with RCA type output

### 6) VOLUME CONTROL

- Volume Down , Volume Up 








### 7) DIMMER

- Automatically Dimmer Control through CDS sensor



## 3. MONITOR MENU

- Select **M** menu button for enter or exit the monitor menu

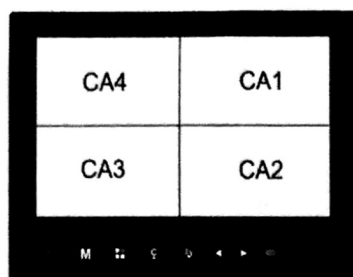
#### 1) Operate

- From menu to menu :  Previous Menu,  Following Menu
- Sub menu selection :  Enter the sub menu from the menu
- From sub menu to sub menu :  Up,  Down
- Sub menu selection :  or 

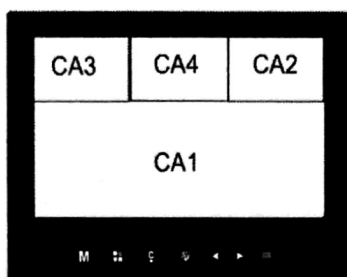
#### 2) Menu Tree

FUNCTION		DESCRIPTION	TRIGGER		DESCRIPTION
LANGUAGE	ENGLISH	8 LANGUAGES	REAR SCALE	ON	OFF
SYSTEM	NTSC/PAL	TV SYSTEM	BLINK MARK	ON	OFF
DIRECTION	0° / 180°	ANGLE	TRIG 1	CAM1	
DIMMER	1(2,3,4,5,OFF)	SET BRIGHTNESS	TRIG 2	CAM3/CAM2	
AUTO POWER	ON		TRIG 3	2 PIP	
LOGO SET		ON, (2~20Sec)	TRIG 4	3 PIP	
AV OUTPUT	LIVE/QUAD		HAZARD	QUAD	
SHUTTER	ON		<b>CAMERA NAME</b>		DESCRIPTION
RESET		FACTORY DEFAULT	CAM1	REAR	
<b>PICTURE</b>		DESCRIPTION	CAM2	RIGHT	
CONTRAST	15		CAM3	LEFT	
BRIGHTNESS	15		CAM4	FRONT	
COLOR	15		<b>CAM MODES</b>		DESCRIPTION
TINT	15		QUAD	ON	OFF
<b>NOR/MIR</b>		DESCRIPTION	3 PIP	ON	OFF
CAM1	NORMAL	MIRROR	2 PIP	ON	OFF
CAM2	NORMAL	MIRROR	3 SPLIT	ON	OFF
CAM3	NORMAL	MIRROR	CAM3/2 SPLIT	ON	OFF
CAM4	NORMAL	MIRROR	CAM4/1 SPLIT	ON	OFF
ALL	NORMAL	MIRROR	<b>SCAN</b>		DESCRIPTION
<b>UP/DOWN</b>		DESCRIPTION	AUTO SCAN	ON	
CAM1	UP/DOWN	UP SIDE DOWN	SCAN KEY	ONE	FULL
CAM2	UP/DOWN	DOWN SIDE UP	CAM1	3	(SEQUENCE)
CAM3	UP/DOWN		CAM2	3	
CAM4	UP/DOWN		CAM3	3	
ALL	UP/DOWN		CAM4	3	
<b>REAR SCALE ADJ</b>					
<b>STOP</b>			<b>REAR</b>		

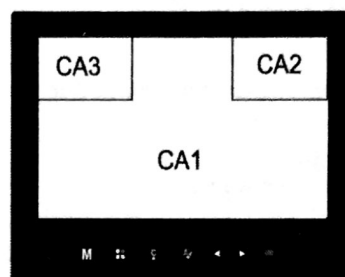
## 4. SCREEN DISPLAY



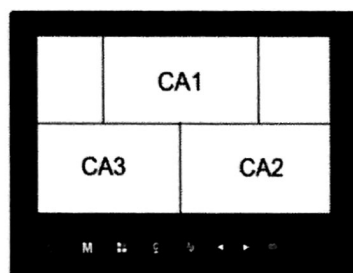
QUAD DISPLAY



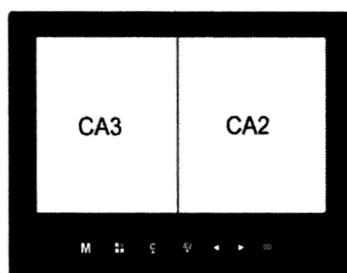
3 PIP DISPLAY



2 PIP DISPLAY



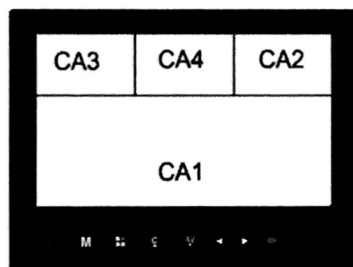
3 SPLIT DISPLAY



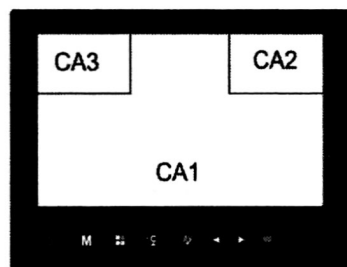
2 SPLIT DISPLAY (CA3/CA2)



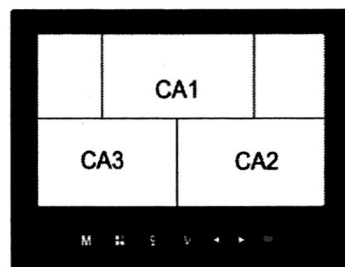
2 SPLIT DISPLAY (CA4/CA1)



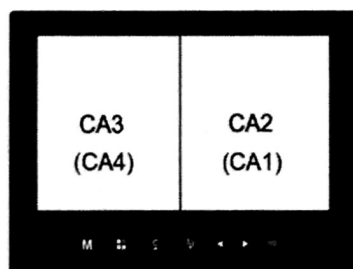
TRIGGER 3 PIP DISPLAY



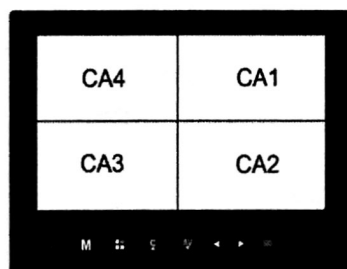
TRIGGER 2 PIP DISPLAY



TRIGGER 3 SPLIT DISPLAY



TRIGGER 2 SPLIT DISPLAY

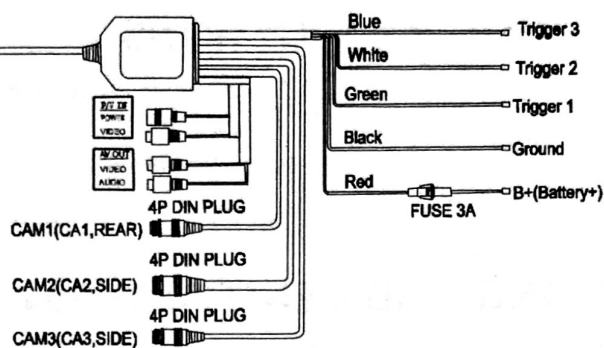
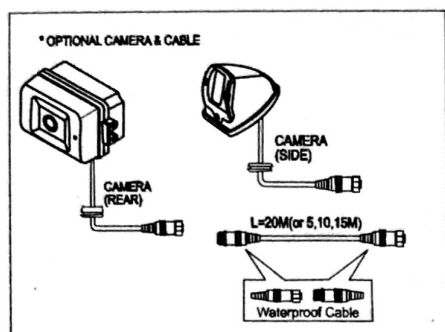
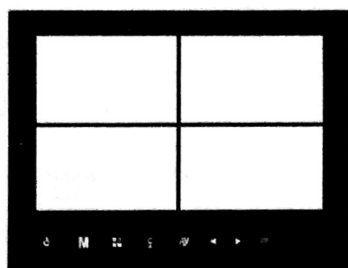


TRIGGER QUAD DISPLAY



TRIGGER SINGLE DISPLAY

## 5. CONNECTION



Pin No.	Description
1	Video
2	Audio
3	DC 12V Power
4	Ground
5	Heater B+ (NC)

- Connect the red wire to the (DC 10~32V) positive + power terminal which is energized with the ignition key in the accessory position
- Connect the black wire to the metal surface on the car or place on a negative battery
- Connect the green wire to the switched positive + power output terminal of the 'R' gear (CAM1)
- Connect the white wire to the switched positive + power output terminal of CAM2
- Connect the blue wire to the switched positive + power output terminal of CAM3

Cable Color	Description
Red	Positive Power (DC 10V ~ 32V)
Black	Ground
Green	'R' Gear Power (DC 10V ~ 32V)
White	Trigger Power (DC 10V ~ 32V)
Blue	Trigger Power (DC 10V ~ 32V)

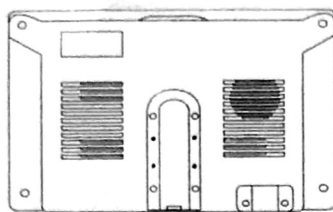


Before making the connection, disconnect the ground terminal of the car battery to avoid short circuiting.



The plugs should be fully inserted into the connectors or jacks.  
A loose connection may cause malfunction of the unit.

## 6. MONITOR INSTALLATION



- ▶ Before installing the monitor, clean it with alcohol
- ▶ Slide fix knob into the slide lane of the monitor
- ▶ Adjust the angle and direction for proper viewing on the monitor
- ▶ Connect the wires accordingly

## 7. OPERATING INSTRUCTIONS

- When user turn the ignition key to the Accessory or ON position, the power will supply to the monitor and the monitor will be in display mode.
- In case of the monitor is turned off, when you set the gear lever to the Reverse position, the monitor will turn on and the picture will display from the CA1.

## 8. CLEANING AND GENERAL MAINTENANCE

- Cool off the inside of vehicle when the inside of vehicle temperature is high from the long term direct sun light.
- 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 to the unit.
- Do not attempt to service this system without authorized, it may expose to dangerous voltage or other hazards.
- Refer all servicing to qualified service personnel.

### [FCC COMPLIANCE STATEMENT]

- This equipment has been tested and found to comply with limits for a Class A digital device, pursuant to part 15 of the FCC rules.
- These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment.
- This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications.
- Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.



Any changes or modifications in construction of this device which are not expressly approved by the party responsible for compliance could void the user authority to operate the equipment

### [MONITOR SPECIFICATIONS]

TV System	NTSC / PAL (AUTO)
LCD Panel	7" Digital LED BACK LIGHT Monitor With OSD Function
Field of View	Top : 40°, Bottom : 60°, Left : 60°, Right : 60°
Resolution	800 X 3 (RGB) X 480
Power	DC 10V~32V, 14W
Dimensions	188(W) X 136.9(H) X 30 (D) mm 7.4(W) X 5.4(H) X 1.2 (D) Inch
Weight	460g (1 lbs)
Contrast Rating	500:1

# **WATER PROOF ALUMINUM DIE-CASTED 1/3" COLOR IR LED REAR VIEW CCD CAMERA**

## **1. FEATURE**

- High Performance New DSP Color CCD Camera
- Sharp & Wide Angle View
- Certified IP Rating
- Harsh Environment Tested
- Built In Low Light 4 IR LEDs
- 0°C Auto Heating Circuit (Optional)
- IEC 529, IP 69K
- G-Force Rating : 30G



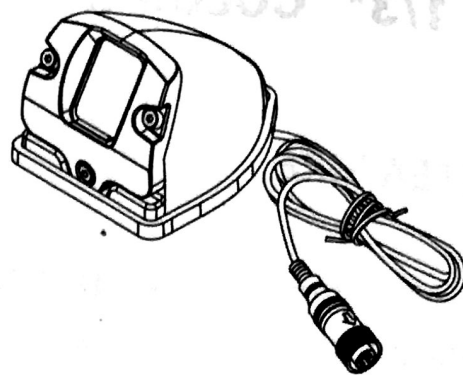
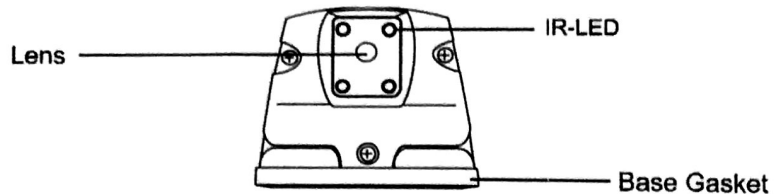
**CC-45**

## **2. SPECIFICATION**

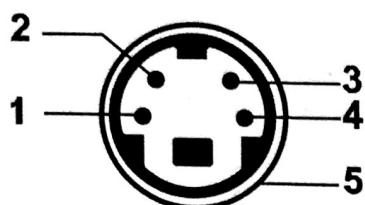
Image Sensor	1/3" SONY SUPER HAD COLOR CCD
Effective Pixels	NTSC : 410K, PAL : 470K
Synchronization System	Internal
Scanning System	640 TV Lines
S/N Ratio	More Than 48 dB
Min. Illumination	0 Lux
Video Out	75 ohm 1Vp-p Composite Signal
BLC	Auto
IRIS	Electronic Auto IRIS
Lens (Default)	f=2.0/f=3.0mm Fixed
Operating Voltage Range	9V ~ 15V
Operating Temperature	-30°C ~ 85°C
Weight	0.18Kg
Dimension	45(W) X 61 (D) X 41 (H)

Picture and specifications are subject to change without notice.

### 3. EXTERIOR FEATURE



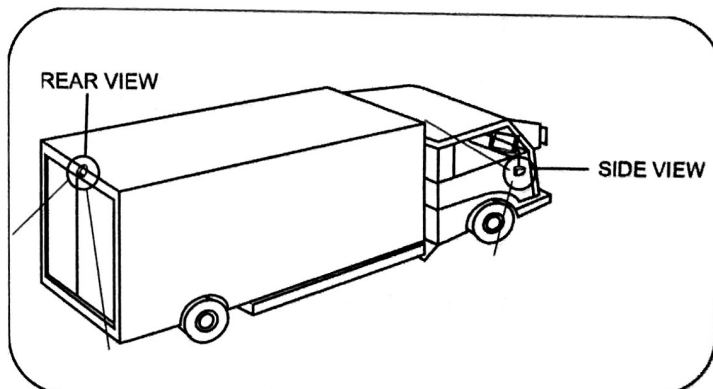
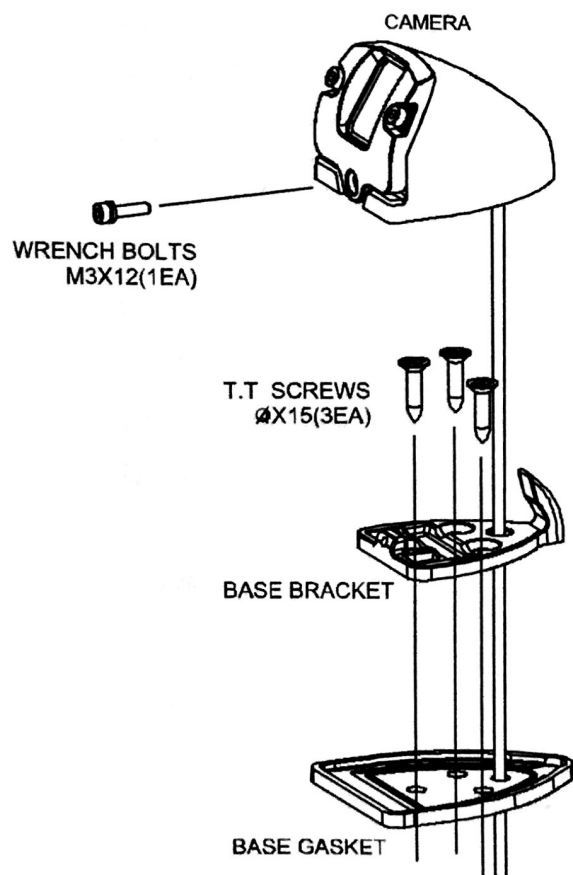
### 4. Camera Cable Pin Map



Pin No.	Description
1	Video Output
2	N.C
3	N.C
4	DC 12V Power
5	Ground

### 5. INSTALLATION

- Attach the supplied mounting bracket to the vehicle.

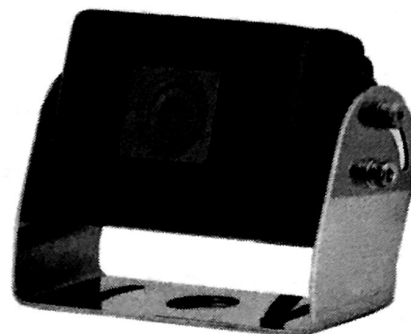




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## **1. FEATURE**

- High Performance New DSP Color CCD Camera
- Sharp & Wide Angle View
- Certified IP Rating
- Harsh Environment Tested
- 0°C Auto Heating Circuit (Optional)
- IEC 529, IP 67K
- G-Force Rating : 10G



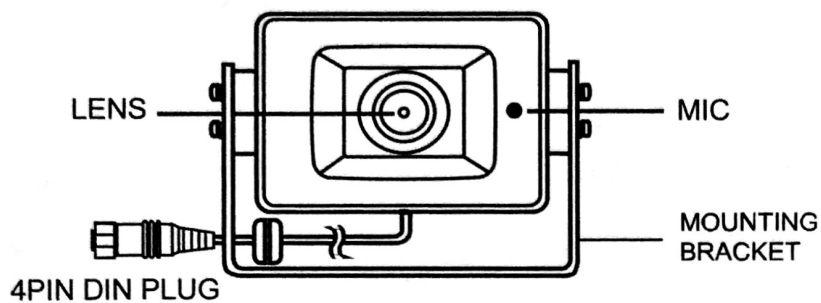
**CC-82**

## **2. SPECIFICATION**

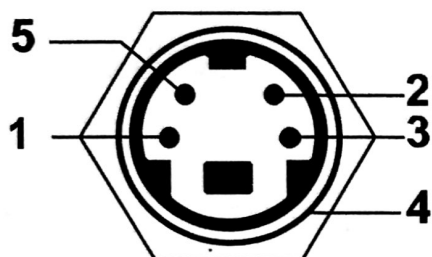
Image Sensor	1/3" SONY SUPER HAD COLOR CCD
Effective Pixels	NTSC : 410K, PAL : 470K
Synchronization System	Internal
Scanning System	640 TV Lines
S/N Ratio	More Than 48 dB
Min. Illumination	0.1 Lux
Video Out	75 ohm 1Vp-p Composite Signal
BLC	Auto
IRIS	Electronic Auto IRIS
Lens (Default)	F=2.0/f=3.0mm Fixed
Operating Voltage Range	9V ~ 15V
Operating Temperature	-30°C ~ 85°C
Weight	0.42Kg
Dimension	93(W) X 57.5 (D) X 56 (H)

Picture and specifications are subject to change without notice.

### 3. EXTERIOR FEATURE



### 4. Camera Cable Pin Map



Pin No.	Description
1	Video Output (White)
2	Audio Output (Red)
3	DC 12V Power (Yellow)
4	Ground (Black)
5	Heater (Blue – Option)

### 5. INSTALLATION

- Attach the supplied mounting bracket to the vehicle.
- Adjust the camera angle and fasten the screws firmly

