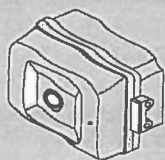
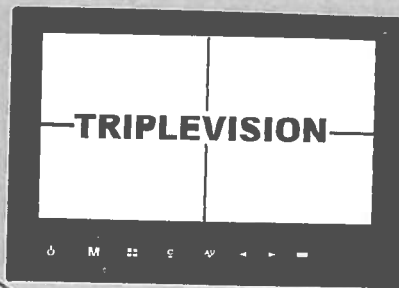


Rearview System For Vehicle

Installation & Operation

Model No. Digital Touch Screen STM-7000Q
CC82/CC45



DIGITAL 7" LED BACK LIT MONITOR

IMPORTANT! - PLEASE READ THIS MANUAL BEFORE INSTALLING!

WARNINGS!

OBJECTS VIEWED IN MONITOR ARE CLOSER THEN THEY APPEAR.

THE STM7000Q 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 VEHICLE 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. FEATURES

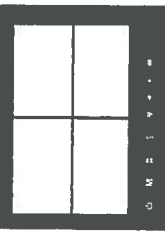
Monitor

The digital STM70000 Touch screen monitor is designed for the commercial trucking industry. It is built to withstand the shock and vibration associated with industrial applications.

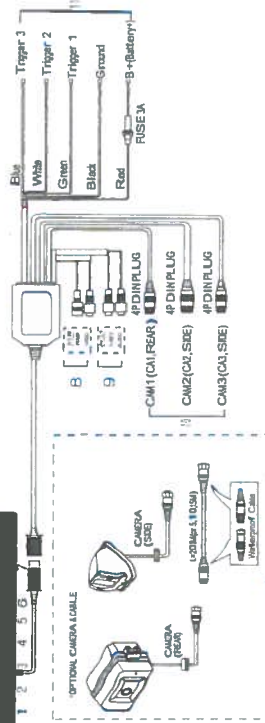
KEY FEATURES

- Split Screen/ Tri Screen/ Quad Screen
- Without Control box
- Auto dimmer feature for night viewing
- Pre-set how much the monitor would dim at night
- Selectable 8 languages: English, Spanish, French, Germany, Italian, Dutch, Finnish, Russian
- 22. F to +1.85 F
- 337,000K Pixel
- Normal/Mirror mode but in menu for each camera
- Blinking red light alerts driver to check monitor when vehicle is placed in (R)
- Aux. AV input and output
- accepts up to 4 cameras
- Customer can choose camera names from menu
- Scan mode with programmable timer for each camera
- NTSC/PAL Compatible
- 10-32V DC Free Voltage Operation

2. MONITOR CONTROLS



POWER HARNESS



- 1) POWER** - Touch the Power button to turn the screen ON.
(Red lamp to blue lamp)
- Touch the Power button for one second to turn the screen OFF.
- 2) MENU** - Touch the Menu button to enter the MENU MODE
Touch the button 5 to enter the FUNCTION, PICTURE, NOR/MIR, UP/DOWN, TRIGGER, CAMERA NAME, CAM MODUS, SCAN, REAR SCALE ADJ
- 3) QUAD(PIP) SELECT**
 - Touch the QUAD (PIP) button to enter the QUAD -> 3PIP(CA1 LARGE, CA3/4/2 SMALL) -> 2PIP(CA1 LARGE, CA3/2 SMALL) -> 3SPLIT(CA1/CA2/CA3) -> 2SPLIT(CA3/CA2) -> 2SPLIT(CA4/CA1) -> QUAD.
- 4) CAMERA SELECT**
 - Touch the CAMERA button one by one, it shows the CA1 -> CA2 -> CA3 -> CA4.
- 5) AV SELECT**
 - Touch the AV button. It shows the AV.
- 6) VOLUME CONTROL**
 - Touch the ◀ button to turn the volume down.
 - Touch the ▶ button to turn the volume up.
 - Touch the ◀▶ button to change the function.
- 7) CDS SENSOR**
 - Auto dimmer feature for night viewing.
 - Automatic LED back - lit buttons for cool operation.

8) PV INPUT CONNECTOR

- Connect the external Power / Video source like Rear view Camera or DVD.

9) AV OUTPUT CONNECTOR

- Connect AV OUTPUT to a second monitor or DVR/VCR

10) CAMERA INPUT CONNECTOR

- There are three mini DIN type connectors for the camera inputs.
- Connect the color cameras to the monitor with the supplied cable.
- The monitor supplies power to the cameras.



| Pin No. | Description |
|---------|--------------|
| 1 | Video |
| 2 | Audio |
| 3 | DC 12V power |
| 4 | Ground |
| 5 | Heater B+ |

11) POWER CABLE

Connect the RED wire to the (10-32V/DC) positive + power terminal which is energized with the ignition key in the accessory position.
 Connect the BLACK wire to a metal point on the car or negative battery post.
 Connect the GREEN wire to the switched positive +power output terminal of the "R" (reverse)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 |
|-------------|-------------------------------------|
| Blue | Trigger power(DC 10V ~ 32V) |
| White | Trigger power(DC 10V ~ 32V) |
| Green | R(reverse) gear power(DC 10V ~ 32V) |
| Red | Positive power (DC 10V ~ 32V) |
| Black | Ground |

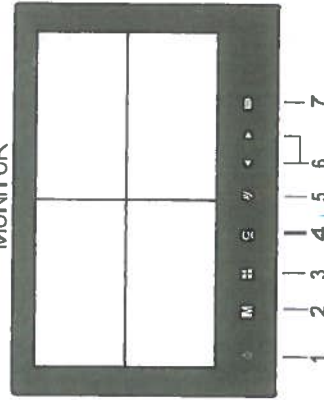
3. OSD Picture

How to go to OSD Menu Mode

Touch the M(2)button to enter the Menu mode.

- 1) Touch the button 4, 5 to select the Menu page =>
 - 2) Touch the button 6 to enter the page =>
 - 3) Touch the button 4, 5 to select the function=>
 - 4) Touch the button 6 to change the function.
- Touch the button 2 to return to the previous page.

MONITOR



4

[MENU PAGE] 1

| FUNCTION | |
|------------|----------------|
| LANGUAGE | ENGLISH |
| SYSTEM | NTSC/PAL |
| DIRECTION | 0 / 180 ° |
| DIMMER | 1(2,3,4,5,OFF) |
| AUTO POWER | ON |
| LOGO SET | LIVE/QUAD |
| AV OUTPUT | ON |
| SHUTTER | ON |
| RESET | ▲ |

[SETTING PAGE]

| LOGO | ON |
|-----------|---------|
| LOGO | ON |
| LOGO TIME | 3(2-20) |
| OSD | ON |

[MENU PAGE] 5

| TRIGGER | |
|------------|-----------|
| REAR SCALE | ON |
| BLINK MARK | ON |
| TRIG 1 | CAM1 |
| TRIG 2 | CAM3/CAM2 |
| TRIG 3 | 2PIP |
| TRIG 4 | 3PIP |
| HAZARD | QUAD |

[MENU PAGE] 6

| CAMERA NAME | |
|-------------|-------|
| CAM1 | REAR |
| CAM2 | RIGHT |
| CAM3 | LEFT |
| CAM4 | FRONT |

[MENU PAGE] 7

| CAM MODUS | |
|--------------|----|
| QUAD | ON |
| 3PIP | ON |
| 2PIP | ON |
| 3SPLIT | ON |
| CAM3/2 SPLIT | ON |
| CAM4/1 SPLIT | ON |

[MENU PAGE] 8

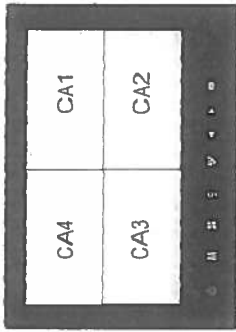
| SCAN | |
|-----------|-----|
| AUTO SCAN | ON |
| SCAN KEY | ONE |
| CAM1 | 3 |
| CAM2 | 3 |
| CAM3 | 3 |
| CAM4 | 3 |

[MENU PAGE] 9

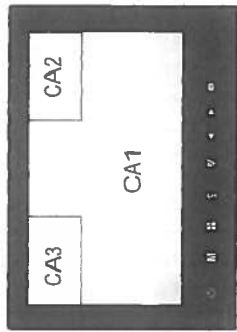
| REAR SCALE ADJ | REAR |
|----------------|------|
| STOP | |

5

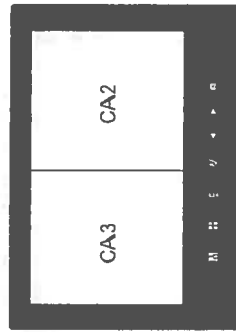
4. SPLIT DISPLAY



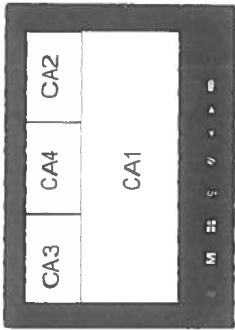
1) QUAD Display



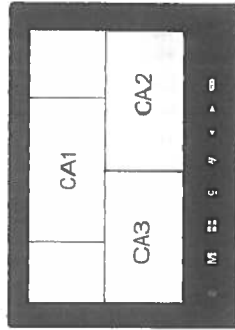
3) 2PIP Display



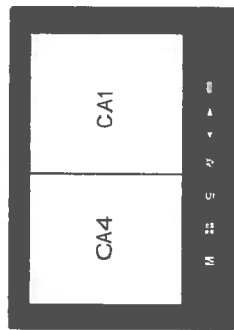
5) 2SPLIT Display (CA3/CA2)



2) 3PIP Display

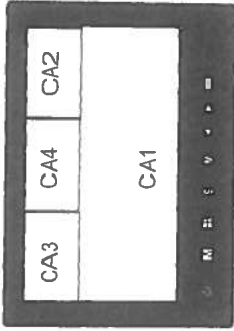


4) 3SPLIT Display

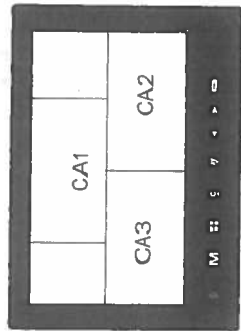


6) 2SPLIT Display (CA4/CA1)

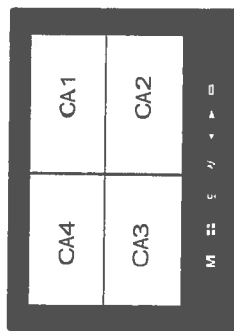
5. TRIGGER ON DISPLAY



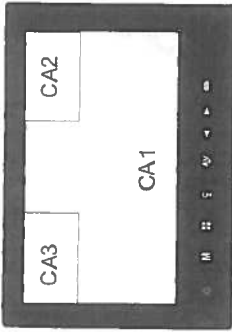
1) Trigger 3PIP Display



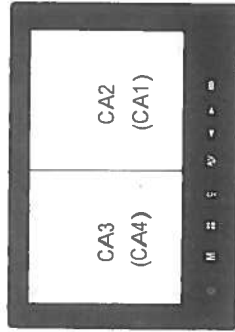
3) Trigger 3Split Display



5) Trigger QUAD mode display
* Press an Emergency Blinker button



2) Trigger 2PIP Display

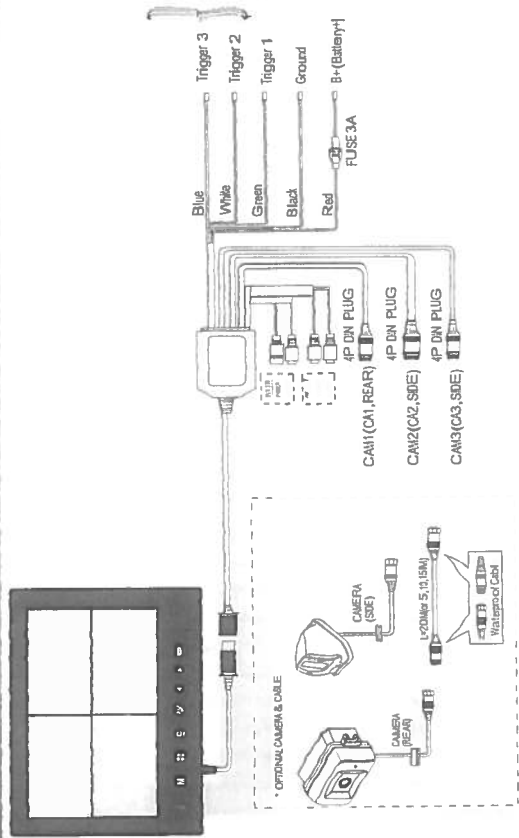


4) Trigger 2Split Display



6) Trigger Single Mode Display

5. CONNECTIONS



Connect the **RED** wire to the 10V ~ 32V power terminal which is energized with the ignition key in the accessory position.

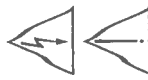
Connect the **BLACK** wire to a metal point of the car or the negative battery post.

Connect the **GREEN** wire to the switched power output terminal of the 'R' (reverse) gear.

Connect the **WHITE** wire to the switched power output terminal of the trigger input.

Connect the **BLUE** wire to the switched power output terminal of the trigger input.

Caution

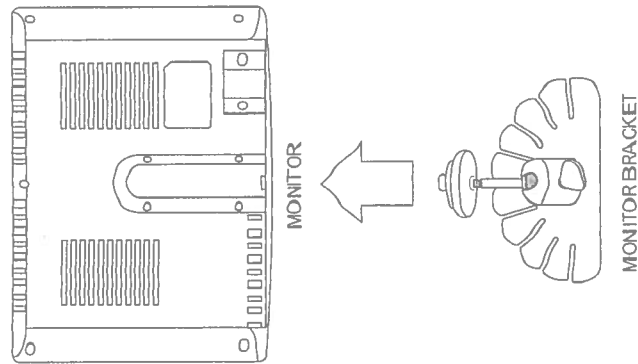


Before making the connection, disconnect the ground terminal of the car battery to avoid short circuiting.

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 this monitor clean it with alcohol.
 - Slide the fix knob (located on the fan shaped bracket) on to the L-shaped bracket.
 - Screw the combined bracket on to the monitor.
- The thread for the monitor is located at the bottom.



- Peel off the adhesive tape on the fan shaped base using the 4 self tapping screws screw the fan shaped base on to a flat surface in the vehicle.
- Adjust the angle and direction for proper viewing on the monitor.
- Connect the wires accordingly.

8. OPERATING INSTRUCTIONS

- When you turn the ignition key to the Accessory or ON position, the power is supplied to the monitor and the monitors in displays.
- Note the power of the monitor:**
 - In case of the monitor is turned off, when you set the gear lever to the Reverse position, the monitor is turned on and the picture from the CA 1 appears.

9. CLEANING AND GENERAL MAINTENANCE

- If your vehicle has been parked in direct sun light resulting in a considerable rise in temperature inside the vehicle, allow the unit to cool off before operating.
- Clean the unit with a slightly damp soft cloth. Use a mild household detergent. Never use strong solvents such as thinner or benzene as they might damage the finish of the unit.
- Do not attempt to service this system yourself as opening or removing covers may expose you to dangerous voltage or other hazards.
- Refer all servicing to qualified service personnel.

10. FCC COMPLIANCE STATEMENT

NOTE

This equipment has been tested and found to comply with the 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's authority to operate the equipment.

11. SPECIFICATIONS

Touch Screen Monitor

| | | | |
|---------------------------|--|------------------------------------|---|
| TV System | NTSC/PAL(AUTO) | Operating temperature range | -30° C to +65° C |
| Picture | 7" Digital Led back lit Touch screen Monitor With OSD function | Dimensions | 188(W) x 136.9(H) x 30(D)mm 7.4(W) x 5.4(H) x 1.2(D)inch |
| Picture image | Factory preset to reverse image | Weight approx. | Monitor- 0.46kg (1 lbs) |
| Power connector | Red : Positive 10V ~ 32V input Black : Ground | Accessories supplied: | Mounting bracket Extension cable Instruction manual Screw kits Sun shield(Optional) |
| Inputs | Green : reverse gear 10V ~ 32V input White/Blue : 10V ~ 32V input 4pin multi connector 1) 12V, 0.2ADC (output) 2) Audio input 3) Heater 4) Video input 1.0V p-p, 75 ohm, sync negative 5) Ground(Chassis) | Audio output (S)UP | 8 ohm, 1Watt Max. |
| Power requirements | 10V ~ 32V DC | Power consumption | 14W max |

WATER PROOF ALUMINUM DIE-CASTED 1/3" COLOR Rear View CCD CAMERA

Model NO : CC-82

1. FEATURE

GENERAL

The Color Camera is High-Performance New DSP Color CCD Camera for use in Vehicle Rear View Applications. The Color Camera delivers sharp and wide angle views for driving & backup safely.

The camera has been tested for IP rating, which measures the degree of protection provided by enclosures, and proven to provide outstanding protection against water under severe conditions.

Automatic temperature sense at 0°C powered on heating function(option).



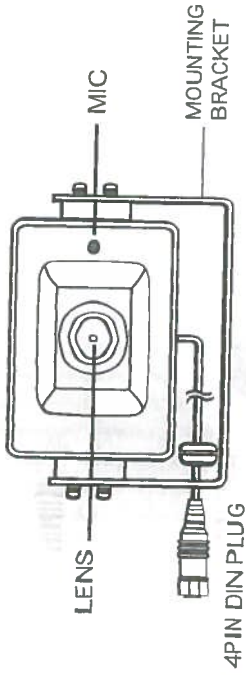
2. KEY FEATURES

- 1/3" SONY SUPER HAD COLOR CCD
 - Electronic auto iris control
 - Auto light compensation(AWB)
 - Back light compensation(BLC on)
 - Low illumination new sharp DSP, CCD & Wide angle for greater 100% waterproof.
 - Housing tested and approved
 - IEC 529
 - IP Rating : 69K
 - G-Fuse Rating : 30
- Wide operating voltage range
Nor/Mir switch outside of camera

3. SPECIFICATIONS

| | |
|-------------------------|---|
| Signal Format |NTSC or PAL |
| Image Device |1/3" Interline Transfer Color CCD |
| Picture Element |270,000(NTSC) or 320,000(PAL) Pixels |
| Synchronization |Internal SYNC |
| Resolutions |420 TV Lines |
| S/N Ratio |More Than 48dB |
| Min. Illumination |0.1Lux |
| Video Out |75 ohm 1Vp-p Composite Signal |
| IRIS |Automatic |
| Operating Voltage Range |Electronic Auto IRIS System9V ~ 15V |
| Lens |F=2.0/f = 3.0mm Diagonal 140° |
| Dimension |93.0 (W) X 57.5 (D) X 56.0 (H)mm |
| Weight |0.42Kg |
| Operating Temperature |-30° C ~ 85° C / 50° C ~ 85° C (w/Heat) |
| Supplied Accessories |20M Waterproof Cable |
| Optional Accessories |Mounting Bracket & Screw Kits |

4. OUT FEATURE



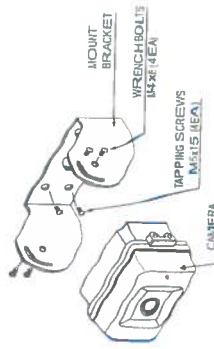
CAMERA CONNECTOR



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

5. INSTALLATION

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



WATER PROOF ALUMINUM DIE-CASTED 1/3" REAR/SIDE COLOR CAMERA Model NO : CC-45

1. FEATURES

GENERAL
The CC-45 Color Camera is High-Performance CCD Camera for use in Vehicle Rear & Left & Right View applications. The CC-45 delivers sharp and wide Angle views for driving & backup safely. The camera is suitable for mounting in the rear/right/left side of a vehicle. It is small and almost hidden in the car. It provides outstanding protection against dust and water under severe conditions.



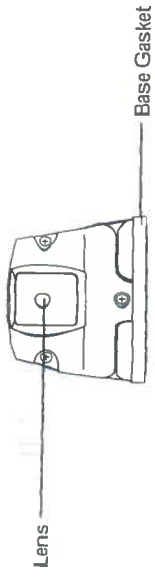
2. KEY FEATURES

- 1/3" SUPER HAD COLOR CCD
- Electronic auto iris control
- Auto white balance (AWB)
- Back light compensation (BLC on)
- Wide angle for greater coverage
- 100% waterproof.
- Housing tested and approved
- IEC 529
- IP Rating : 69K
- G-Force Rating : 30
- Mini size & Easy installation

3. SPECIFICATIONS

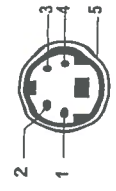
| | |
|------------------------------|--|
| Signal Format..... | NTSC or PAL |
| Image Device..... | 1/3" SUPER HAD COLOR CCD |
| Picture Element..... | 270,000(NTSC) or 320,000(PAL) Pixels |
| Synchronization..... | Internal SYNC |
| Resolutions..... | 420 TV Lines |
| S/N Ratio..... | More Than 48dB |
| Min. illumination..... | 0.1 Lux |
| Video Out..... | 75 ohm 1Vp-p Composite Signal |
| B.L..... | Automatic |
| IRIS..... | Electronic Auto IRIS System |
| Operating Voltage Range..... | 9V ~ 15V |
| Lens..... | F=2.8f = 3.8mm Diagonal 125 |
| Dimension..... | .45(W) X .61(D) X 41(H) |
| Weight..... | 0.18Kg |
| Operating Temperature..... | -30° C ~ 85° C |
| Supplied/Accessories..... | Adaptor Cable(5m) Mounting Bracket & Screw Kits |

4. OUT FEATURE



CAMERA CONNECTOR

| 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.

