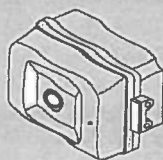




Rearview System For Vehicle

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

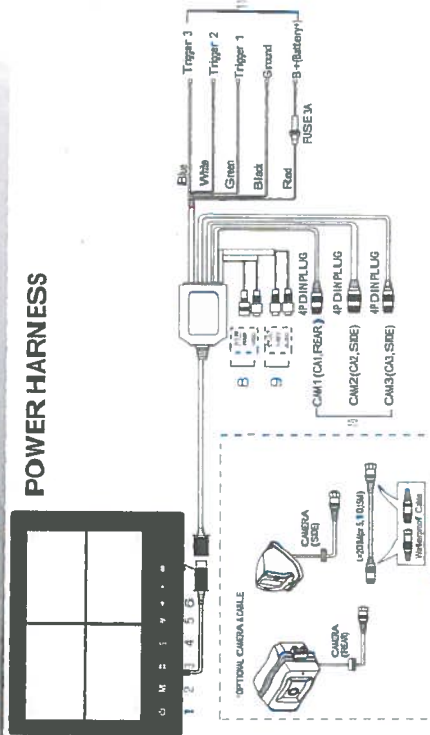
The digital STM70000 Touchscreen monitor is designed for the commercial trucking industry. It is built to withstand the shock and vibration associated with industrial applications.

KEY FEATURES

- Split Screen/ Tri Screen/ Quad Screen
- Without Controlbox
- 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 +185 F
- 337,000K Pixel
- Normal/Mirror mode built 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



2

- 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, CAMERANAME, 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+

3

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

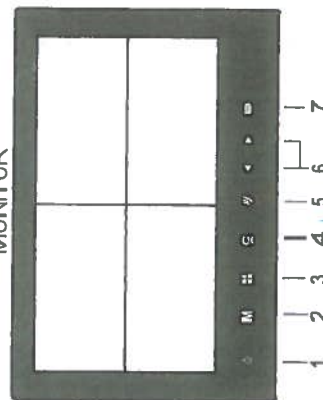
3. OSD Picture

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	ON
AV OUTPUT	LIVE/QUAD
SHUTTER	ON
RESET	ON

[SETTING PAGE]

LOGO	
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] 2

PICTURE	
CONTRAST	15
BRIGHTNESS	15
COLOR	15
TINT	15

[MENU PAGE] 6

CAMERA NAME	
CAM1	REAR
CAM2	RIGHT
CAM3	LEFT
CAM4	FRONT

[MENU PAGE] 3

NOR/MIR	
CAM1	NORMAL
CAM2	NORMAL
CAM3	NORMAL
CAM4	NORMAL
ALL	NORMAL

[MENU PAGE] 7

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

[MENU PAGE] 4

UP/DOWN	
CAM1	UP
CAM2	UP
CAM3	UP
CAM4	UP
ALL	UP

[MENU PAGE] 8

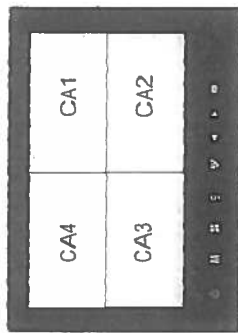
SCAN	
AUTO SCAN	ON
SCAN KEY	ONE
CAM1	3
CAM2	3
CAM3	3
CAM4	3

[MENU PAGE] 9

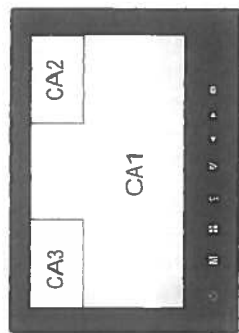
REAR SCALE ADJ	
STOP	REAR

5

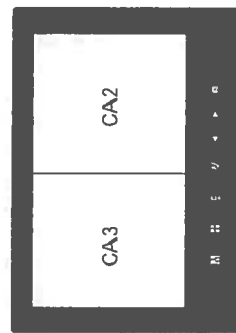
4. SPLIT DISPLAY



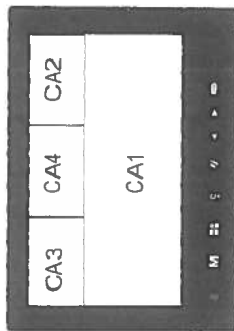
1) QUAD Display



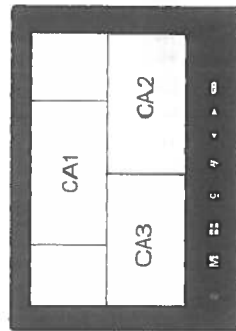
3) 2PIP Display



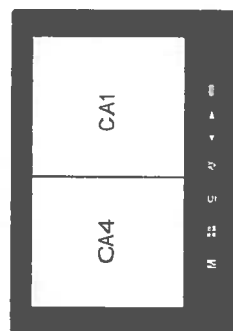
5) 2SPLIT Display (CA3/CA2)



2) 3PIP Display

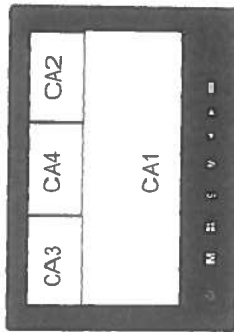


4) 3SPLIT Display

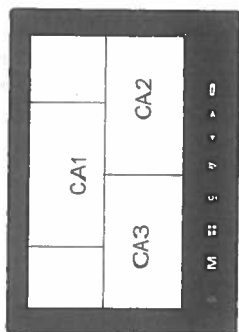


6) 2SPLIT Display (CA4/CA1)

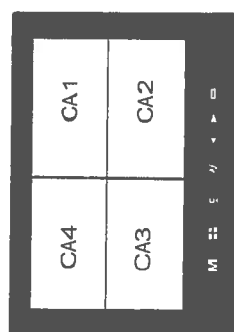
5. TRIGGER ON DISPLAY



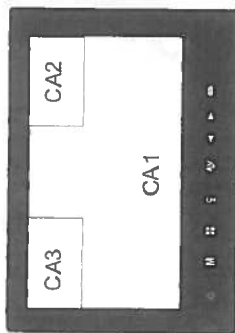
1) Trigger 3PIP Display



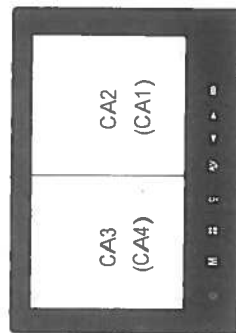
3) Trigger 3Split Display



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



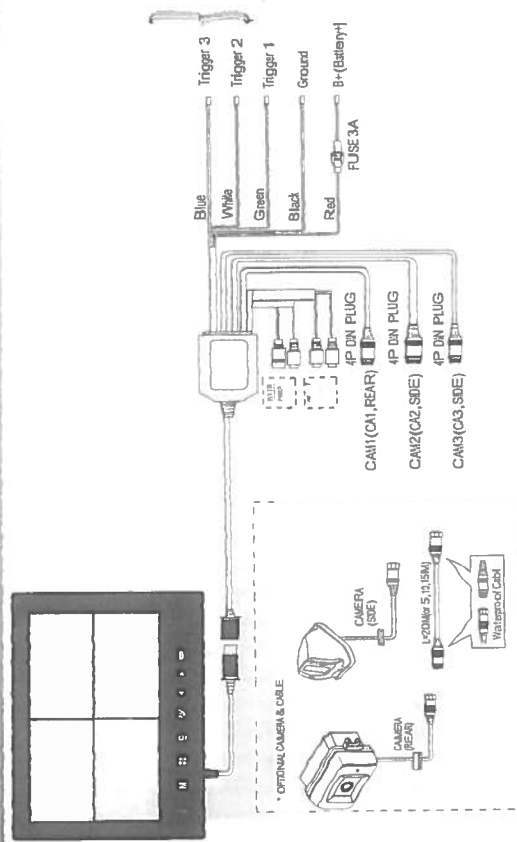
2) Trigger 2PIP Display



4) Trigger 2Split Display



6) Trigger Single Mode Display



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.

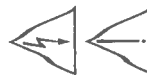
Connect the WHITE wire to the switched power output terminal of the trigger input.

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

Caution

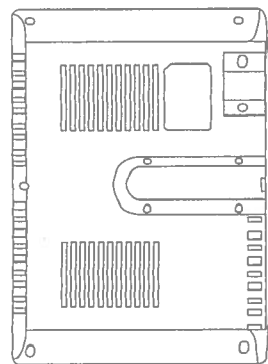
Before making the connection, disconnect the ground terminal of the car battery to avoid short circuiting.

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

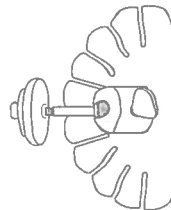


6. MONITOR INSTALLATION

- 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.



MONITOR



MONITOR BRACKET

- Peel off the adhesive tape on the fan shaped base using the 4 self-lapping 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 monitor is 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.

CAUTION

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 +85° C
Picture	7" Digital Led back lit Touch screen Monitor With OSD function	Dimensions	188(W) x 135.9(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 - 0.45kg (1 lbs)
Power connector	Red: Positive 10V ~ 32V input Black: Ground	Accessories supplied:	Mounting bracket Extension cable Instruction manual Screw kits Sun shield (Option)
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)		1EA 1EA 1EA 1EA 1EA
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).

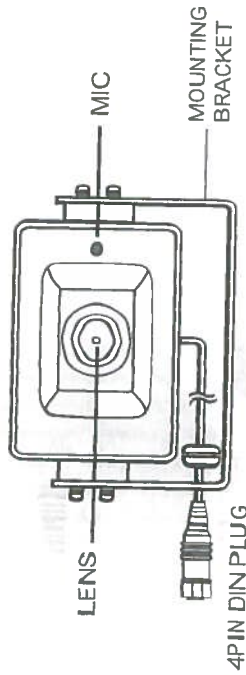
2.KEY FEATURES

- 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
BLI	Automatic
IRIS	Electronic Auto IRIS System
Operating Voltage Range	9V ~ 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

OUT FEATURE



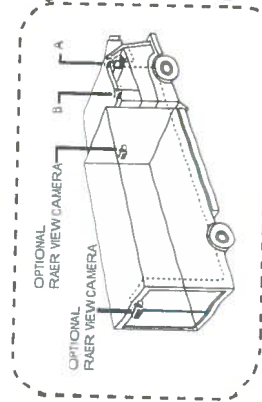
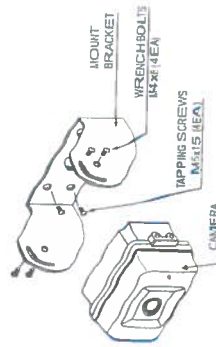
CAMERA CONNECTOR



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

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/light/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.



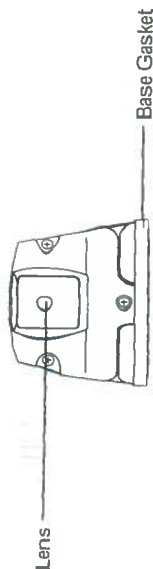
2. KEY FEATURES

- 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 1 Vp-p Composite Signal
IRIS	Automatic
Operating Voltage Range	9V ~ 15V
Lens	F=2.8/f = 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.

