



STSK4750B 7" MIRROR MONITOR KIT INSTALLATION/USER MANUAL

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STSK4750B SAFE-T-SCOPE®7" MIRROR MONITOR KIT

Rosco Vision Systems introduces a camera system for commercial vehicles. The new Safe-T-Scope® STSK4750B utilizes a windshield-mounted mirror. It is integrated with a 7" LCD monitor to display the rear-view image when the vehicle shifts into reverse. The 7" wide-angle monitor allows the driver to see obstructions behind the vehicle. In addition, the monitor brightness automatically adjusts between day and night modes. The STSK4750B complies with FCC (USA) guidelines.

The STSM244 monitor included with the STSK4750B kit has the capability to be upgraded for use with three cameras. Contact your Rosco dealer to discuss this option.

NOTE

- Please read this manual carefully before using the product.
- This system is intended as an aid to safe driving operation.
- Drivers must always use extreme caution when operating a vehicle.
- Specifications subject to change without prior notice.
- Keep all cables AWAY from rotating and electrically noisy components.
- Make sure all cables are fastened properly to prevent wire chafing, kinks, cuts, etc.





- To prevent electrical shock, DO NOT OPEN MONITOR CASE.
- Avoid exposing monitor to water, rain, moisture etc.
- Do not disassemble the monitor. This voids the warranty.

COMPONENT LIST AND DESCRIPTION - STSK4750B

STSM244MO

Power harness - 13-pin connector, 1 channel 4-pin input

7" LCD Monitor

STSM244 Mounting Kit

High-mount, wide angle look-down camera with night vision

Also available in white (STSC130W) and chrome (STSC130R) finishes

Adaptor for connecting the STSC130 camera to the STSH349 or other desired extension cable

49 ft. (15M) camera extension harness



STSM244PHARSC

STSDF1003

STSC130B

STSH130

STSH349







MONITOR INSTALLATION

The STSM244 7" Windshield Mirror Monitor is designed to attach to the windshield button of the vehicle. An additional windshield button is included with the STSK4750B kit. Attach the supplied mount to the monitor with the 4 supplied screws. Torque screws by hand to 7 in-lbs. The standard mount STSDF1003 is compatible with many common vehicle models. Please contact your Rosco dealer for alternative mounting options.

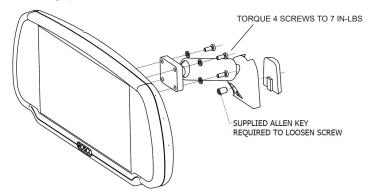


Fig. A

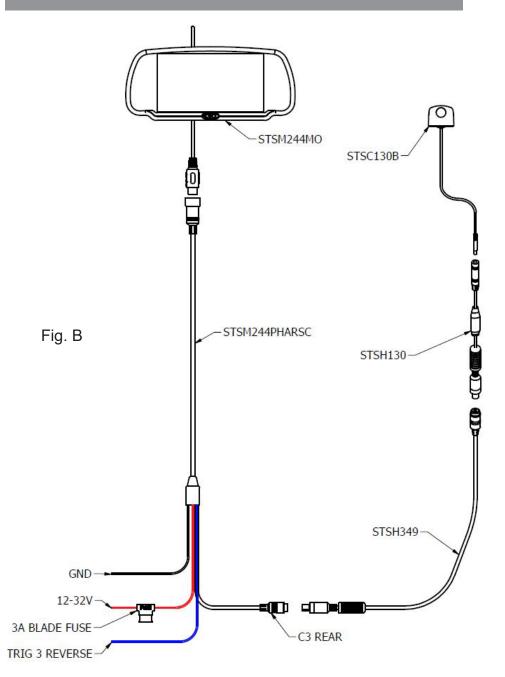
WIRING INSTRUCTIONS

- Once the monitor is mounted, if necessary, drill a 1" diameter hole near the monitor through which to pass the monitor cable and 13-pin connector. Clear any obstacles before drilling holes.
- Connect the black wire from the power harness to chassis ground. Connect the red wire to an ignition switched accessory (ex. radio) power source and ensure that the power source can provide operating current above 2 Amps.
- Connect the blue trigger wire to the vehicle's reverse signal circuit. DO NOT connect trigger to any constant power source. Connect the STSH349 camera extension cable to the connector labeled "C3 REAR" on the power harness.
- Connect the STSH130 standard-to-mini adaptor to the STSH349 camera extension cable.
- Connect the STSC130 camera to the STSH130 standard-to-mini adaptor.
- Connect the monitor's 13-pin connector to the power harness' 13-pin connector. Make sure the arrows on both connectors are aligned and pointing towards each other.
- All connections should be completely hidden from the vehicle operators. The harness should be tied/clamped to a rigid structure or rigid existing vehicle harness.
- Adhere to a 2 inch bend radius for all cables to prevent damage.

FUEL TANKERS & OTHER SPECIALTY VEHICLES:

- All electrical equipment fitted to petroleum vehicles must be connected via battery master switch.
- The electrical equipment must be isolated from the battery while the vehicles are loading and unloading. For other specialty vehicles, please check applicable codes and regulations prior to installation.
- Consult your dealer when adding any electrical or electronic equipment to a vehicle fitted with a CAN-bus multiplex system.

WIRING DIAGRAM



Note: The power harness included is for single-camera use. For multi-camera upgrade options, contact your Rosco dealer.

CAMERA INSTALLATION

EXAMPLE CAMERA INSTALLATION

1. Select a high and centered location at the rear of the vehicle to mount the camera.

IMPORTANT: When selecting this location it is highly recommended that the image transmitted by the camera show the rear bumper and area behind the vehicle.

2. It is not recommended mounting the camera near the lower area of the vehicle (ex. bumper). This reduces the view of the camera and increases the chance of physical damage to the camera.

3. Once the location for the camera is chosen, drill the mounting hole to the inside of the vehicle using a 5/16 drill bit. Clear any obstacles before drilling the hole.

4. Attach the provided 3M double-sided tape to the back of the camera.

5. Insert camera wire through the newly drilled hole. Mount the camera securely in place.

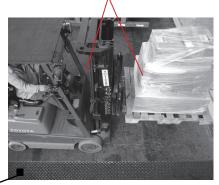
6. To finalize the camera installation, handtighten the provided 5/16 nut to the back of the camera on the inside of the vehicle.



Mount the camera high and centered on the rear of the vehicle.



Obstructions behind truck



Vehicle bumper

Typical view of a properly installed camera.

Fig. C

MONITOR FUNCTIONS AND OPERATIONS

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IMPORTANT: It is recommended that the menu buttons only be operated when the vehicle is in park or neutral.

1. & 3. ^ / v VOLUME/MENU SETTING ADJUST BUTTONS

Decrease/Increase audio volume when no menu is open. Use these buttons to sort through the menu tabs when no menu parameter is highlighted. Decrease/increase the value for a particular menu parameter.

2. MENU SETTING AND PAGE TOGGLE

Brings up the monitor settings menu. Press the button again to scroll through the various settings on a menu page and to access the camera settings menu page (see following page).

4. SELECT BUTTON

Scroll through camera channels until CAM3 is displayed. CAM1 and CAM2 are not used.

5. POWER ON/OFF

Turns the LCD on or off. The default state of the LCD is OFF when power is connected. The monitor will display any triggered input regardless of LCD power status.

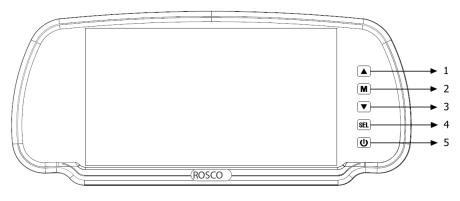


Fig. D

MONITOR SETTINGS AND MENU

NOTE: Press the M button to enter the menu and the ^ or v button to change pages.

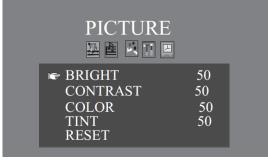
MENU SETTINGS PAGE 1: PICTURE

Press the **M** button (see preceding page) to access this menu. Press **M** again to scroll through the lists of parameters. At an individual parameter (text will turn red when selected), press ^ or v to adjust the settings of each parameter.

Parameter	Options	
BRIGHT	1~100. Default Auto, Daytime, and Nighttime = 50.	
CONTRAST	1~100. Default Auto and Daytime = 50, Nighttime = 45.	
COLOR	1~100. Default = 50.	
VOLUME	1~100. Default = 50.	
TINT ¹	1~100. Default = 50.	
RESET	Resets all settings back to factory default	
DAY MODE / NIGHT MODE denotes whether the monitor is applying daytime brightness or night-		

time brightness, depending on the light sensor or the AUTO DIM setting in the OPTION menu page.

1. TINT only appears when the monitor is receiving a signal from the camera.



MENU SETTINGS PAGE 2: VOLUME

This menu allows the user to adjust the audio from the camera.

Parameter	Options	
VOLUME	1~100. Default = 50.	



MONITOR SETTINGS AND MENU

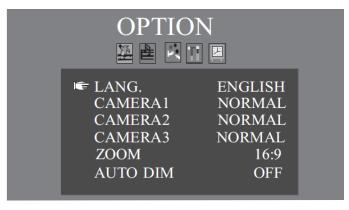
NOTE: Press the **M** button to enter the menu and the **^** or **v** button to change pages.

MENU SETTINGS PAGE 3: OPTION

This menu allows the user to adjust the language, mirroring of the camera, aspect ratios, and the automatic dimming of the monitor.

Parameter	Options	
LANG	English, Dutch, French, Spanish, Portuguese, or Italian. Default = English.	
CAM3	Normal or Mirror. Default = Normal.	
ZOOM	16:9 or 4:3. Default = 16:9.	
AUTO DIM ¹	Auto, Day, Night, or Off. Default = Auto.	
This monitor is built for use as a backup system and the default setting Normal displays a con- ventional backup camera image. Setting MIRROR would un-mirror the image. It is suggested to leave default on NORMAL.		

1. When altering picture in day/night mode, those values are saved for day/night mode until reset.



MONITOR SETTINGS AND MENU

NOTE: Press the **M** button to enter the menu and the **^** or **v** button to change pages.

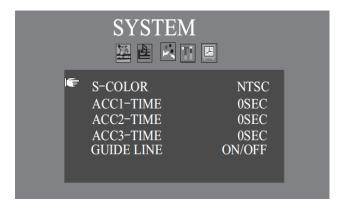
MENU SETTINGS PAGE 4: SYSTEM

This menu allows the user to alter color of image, set a shut-off delay, and add parking guidelines. ACC3-Time delays shut-off of the monitor when power to the corresponding trigger is cut. GUIDE LINE adds parking guidelines to the monitor to give perspective on the objects behind the vehicle.

Parameter	Options		
S-COLOR ¹	Auto, NTSC, or PAL. Default = Auto.		
ACC3-TIME	0~15 seconds. Default = 1 second.		
GUIDE LINE ²	On or Off. Default = Off. Only available when reverse trigger wire is activated.		
ACC3-TIME only works when the trigger is turned off, not the monitor.			

1. Rosco cameras are formatted for NTSC. It is recommended to leave parameters as is.

2. The guideline parameter only appears on Camera 3 (Camera 3 - Rear, trigger 3) and if the monitor is reset, the guidelines are removed.



STSK4750 TECHNICAL SPECIFICATIONS

PARAMETER	VALUE
Screen Size (Diagonal)	7" (18 cm)
Dimensions (L x W x T)	10" x 4.3" x 1.2" (25.4cm x 11cm x 3cm)
TV System	CVBS - NTSC
Video Inputs	1 Input
Input Format	4-pin
Trigger Inputs	1
Resolution	800 x 480 pixels
Brightness	700 cd/m ²
Contrast	450:1
Voltage	DC 12V~24V
Maximum Current Consumption	1,000mA
Viewing Angles Up/Down/Left/Right	60° x 60° x 75° x 75°
Shock Rating	2G
Vibration Rating	6G
Operating Temperature	-4°F to 158°F (-20°C to 70°C)
Storage Temperature	-22°F to 176°F (-30°C to 80°C)

NOTES



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