

Mirror Monitor Safety System Installation & Operation

Model No. STM-R96





9.66" Digital LCD Mirror Monitor

Important – Please Read This Manual Before Installing. Objects Viewed In Monitor Are Closer Than They Appear. The STM-R96 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.

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1. Product Introduction

1.1Package

- The packing box contains the following accessories

Item	Picture	Quantity	Remark	
Mirror Monitor				
Rearview Camera				
Wire Harness			Power Harness & Camera Extension Cable	
User Manual	Image: Comparison of the second se			
Install Bracket (optional)				
GPS (optional)	GP8 Sensor			
For the items listed above, please check with your package box. If any damage, please contact with the distributor or the agent as soon as possible.				

1.2 Features

- -. Built-in ultra-high brightness 9.66-inches touch LCD panel
- -. Front camera 1080p, Rear camera 720p resolution
- -. Maximum 256GB TF card support
- -. Input power : max. 32V
- -. Parking monitoring
- -. Automatic loop recording
- -. Synchronized video/audio recording
- -. Google-map support on a PC program with GPS

1.3 Specification

Model	STM-R96
Display	9.66 inches touch LCD panel
Front Camera	Resolution : 1080p
Rear Camera	Resolution : 720p
Recording Video Format	MOV
Recording Still Image Format	MJPEG
G-Sensor	Built-in
MIC	Built-in
Speaker	Built-in
Super Capacitor	Built-in
GPS	optional
Power Input	DC 12V (max. 32V support)
Dimension	257.7 x 72.0 x 41.4 (mm) / 10.15 x 2.83 x 1.63 (inch)
Weight	368g/unit, 1.4Kg (Full Package)
Operating Temperature	-10°C ~ 60°C / 14°F ~ 140°F

1.4 Dimension

- Without mounting bracket



2. Installation and Wire

Power(B+), Ground(-) and ACC shall be connected to each terminal. This can lead to battery discharge and may interfere with parking mode operation.

M STM-R96 checks battery voltage via B+ and ACC. Monitor power will off from 11V for 12V battery and from 23V for 24V battery.

2-1. How to install rearview mirror monitor

- 1) Remove the original mirror
 - -. Different cars have different brackets. It depends on your vehicle maker and manufacturer.
 - -. There are many methods to remove the original rearview mirror, however please don't force the mirror off the bracket.
 - -. The manufacturer will not be responsible for damage caused to your car by wrong installation of the mirror.
- 2) Attach the installation bracket
 - -. Attach the installation bracket for your vehicle to the rear of the mirror monitor.



2-2. How to install rearview mirror monitor

- Wiring Diagram







3. Function and Interface

3.1 Monitor Front Function & Interface



No.	Item	No.	Item	No.	Item
1	Monitor Cable	5	Setting	9	Screen Shot
2	MicroSD Card Slot	6	Playback	10	Audio Record
3	Power Button	7	Record	11	Event Record
4	Direction & Speed	8	Display Mode	12	Date and Time

3.2 Monitor Rear Function & Interface



No.	Item	No.	Item	No.	Item
1	Speaker	3	Bracket Connection Hole	5	Front Camera
2	Bracket Cover	4	Reset Button		

4. Operation

- How to enter the setting menu



2) Recording Time

4-1.

	. Set recording time even $(1, 2, \infty)$ minutes $\begin{pmatrix} 1 & 2 \\ 3 \end{pmatrix}$ m	
3)	Audio Record	
	: Set record sound OFF , ON	
4)	Dual Cameras Recording	
	On : Record Front and Rear	
	Off : Record Front only OFF OFF, ON	
5)	Power Off	
		Never
		1 min
	: Set the power off after certain times when non recording mode	5 min

: Set the power off after certain times when non recording mode.

If the monitor is in use, will turn off after the set time after use.

6) Clock Setting

5			
	-		+
: Set date and time		ОК	

7) Stamp

: Choose whether you want to record GPS information to a file you want to save.

Date + Log
Date
Log
Off

8) Language

English	
Русский	
日本語	
한국어	

: Select the language what you want to use.

9) Flicker

50 : Select flicker frequency when the video is flickering.

10) LCD Power Save

Never
1 min
3 min

(60

Hz

: Turn off back light power after certain time

11) On-Screen Mode

: Set the monitor brightness

12) Event Recording

Off	→ Not make a recording event
High	
Middle	
Low	

: Event recording through G sensor while in driving.

13) Parking Monitoring

: Event recording through G sensor while the vehicle is parked.

Off	\rightarrow Not make a recording event
High	
Middle	
Low	

When motion or any event happens while the monitor is on a recording, the recording icon will change red circle to yellow circle with blinking.

, ON (



※ G-Sensor Level

Off	-
High	1.25G
Middle	1.5G
Low	2.0G

- 14) Motion Detection
 - : Set the motion record or not. OFF
- 15) Volume

- Set the monitor speaker volume
16) GPS Status
LAT: UnKnown LON: UnKnown USE: 0
: Non setting menu, for the user information.
17) Speed Unit
: Select speed unit Mile/h Km/h
18) Reset Setup
Reset Setup? All setting will be deleted. YES NO
19) Format SD-Card
Format Card? All setting will be deleted.
: Format micro-SD card
20) Firmware Version

- : Show firmware version '20190420_V0.1'
- 21) Back Light Compensation

: Control the back light brightness through finger touch. Getting dark when slide left side and bright when slide right side.

Control bar come up when the finger slide at the top of the screen.

4-2. Playback

- 1) Stop recording first to enter the playback menu.
- 2) If you touch the icon, below screen shows.



3) Select the camera which camera video want to play.

- 3-1) Touch **File** icon then front camera videos will be listed on the right side. File name will be 'Filexxxxx-xxxxF.MOV' last of 'F' is 'Front' initial.
- 3-2) Touch icon then rear camera video will be listed on the right side. File name will be 'Filexxxxx-xxxxR.MOV' last of 'R' is 'Rear' initial.

Recording Capacity				
	Front		Rear	
Resolution	1080P	720P	720P	
30 Mins. Data Size	2.7GB	1.4GB	1.4GB	
1 Hour Data Size	5.3GB	2.7GB	2.7GB	
5 Hours Data Size	26.5GB	13.3GB	13.3GB	

% Recorded File name

Recording Mode	Direction	File name	
Continuous Record	Front	FILEYYMMDD_HHMMSSF.MOV	
	Rear	FILEYYMMDD_HHMMSSR.MOV	
Event Record	Front	EMERYYMMDD_HHMMSSF.MOV	
	Rear	EMERYYMMDD_HHMMSSR.MOV	
Parking Motion Record	Front	PARKYYMMDD_HHMMSSF.MOV	
	Rear	PARKYYMMDD_HHMMSSR.MOV	
Screen Shot	Front	IMGYYMMDD_HHMMSSF.MOV	
	Rear	IMGYYMMDD_HHMMSSR.MOV	

4) Event Playback

: Search the event while 'Driving', 'Parking' and 'Motion' recorded.



5) Show captured image



: Files will be listed when the capture through capture icon.



: Touch the red circle icon and files will be listed.

4-3. Channel Change

: Shows rear camera full screen -> Front camera full screen -> Both camera split screen



4-4. Audio

: Record audio 'ON'

4-5. Event Lock

When the recorded video files are overwriting, this feature prevent to delete with this lock button.

- Lock Off 💷 : All recorded data will be overwriting and stop event recording.
 - Lock On : Manual on for emergency recording start. Event recorded data will not be overwrite.

5. General Use

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 attemp 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 disigned to provide reasonable protection against hamful interference when the equipment is operated in a commercial environment.
- This equipment generates, uses, and can rediate radio frequency enerty and, if not installed and used in accordance with the instruction manual, amy 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