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GAZER®



USER MANUAL
MOBILE VIDEO RECORDER

GAZER F525

Autogoods "130"

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Congratulations on your purchase of Gazer mobile video recorder.

Please read this manual carefully, before using the device.

Warnings

- Do not expose the device to direct sunlight.
- Do not apply any chemicals when cleaning the device. Only use soft cloth to clean the frame and lens.
- Prevent the device from falling or being damaged by other objects.
- Do not use or store the device in cold or hot places.
 - Storage temperature: from -20°C to $+60^{\circ}\text{C}$
 - Operation temperature: from 0°C to $+40^{\circ}\text{C}$
- Make sure the device warms up before starting, if it was exposed to the low temperature for too long.
- Do not attempt to repair the appliance yourself. In case of damage, contact your dealer or service center.
- The manufacturer is not responsible for any losses or missed opportunities due to use of videos and data obtained with the help of this MVR.

Warning!

- Do not insert or remove the SD card when the device is connected to a power supply or working with an external power unit. This can lead to the MVR malfunction. Wait for 30 seconds after the MVR shutdown, make sure that all the lights are off for at least 10 seconds, and only then safely remove the memory card.
- Set the correct time and date before using the device. The MVR may not record in case these settings were entered incorrectly.
- Use at least 0.5 seconds time interval while pressing control buttons, otherwise you may need to remove the battery from the device in order to reboot the system.
- Carefully connect the power supply cable to the device. MVR power supply cable should not be confused with the radar detector or navigator power supply cables (those may have voltage of +12V). A wrong connection may cause MVR failure.
- Do not turn off the power for at least 20 seconds after the power supply cable is connected. This is necessary to help the built-in battery function correctly.
- If after you have started the car (when the power supply cable is connected to the MVR), the device failed to switch to the recording mode automatically, simply unplug the power supply cable for ten seconds and then try again.
- Use the restart option (by removing the battery from the MVR, when the power supply cable is disconnected) in the following cases:
 - Power indicator is not on when the power supply cable is connected;
 - The device does not switch from the standby to the recording or control mode;
 - The device fails to function properly.
- To restart the MVR, turn the power off, remove the battery cover (p. 9, c. 7) and carefully remove the battery from the slot for at least 5 seconds. Then put the battery back, close the cover and reconnect the power supply cable.

Package contents

ENG



Gazer F525 MVR



User manual



Warranty card



Vacuum windshield
mount



Battery 40C, 3,7V
500mAh



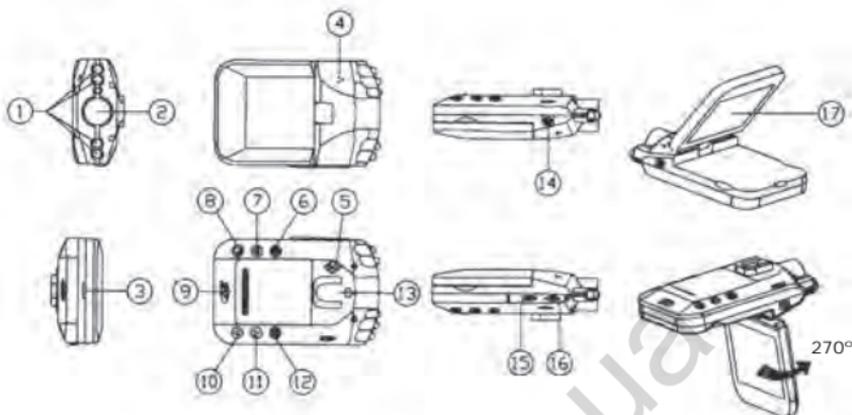
Cigarette lighter socket
power unit
(with an integrated
+5V converter)



USB cable
for PC connection



Gazer Memory Card
micro SDHC 16 GB



1. IR diodes.
2. Lens.
3. Status indicator (blue – operation mode, red - charging mode).
4. Microphone.
5. Speaker.
6. ON/OFF – switching the device on and off (red – status indicator).
7. MENU – Settings menu.
8. REC/SNAP – control the recording mode/features selection when navigating the menu.
9. Battery slot cover (SD Slot – located under the battery slot cover).
10. DOWN – down (navigating different menus, reducing exposure settings EV).
11. UP – up (navigating different menus, increasing exposure settings EV).
12. MODE – mode selection («video», «photo», «archive mode»).
13. Mounting hole.
14. Power socket.
15. HDMI – HDMI video output.
16. USB – PC connection.
17. 2.5" rotatable display.

- When the device is on, the status indicator (3) stays blue and starts flashing when the recording mode is activated. When the MVR is charging, the status indicator flashes red (3). In case the device is fully charged or no power is supplied, the indicator (3) stays off. To determine the status of the device you can either use the status indicator or check the display icons.
- The MVR starts recording automatically when the power is on, there is no need to press REC/SNAP button (8) manually.
- The MVR automatically shuts down, saves the video and switches off when no power is supplied. Manual shutdown (before you turn off the ignition) is not required. If necessary, you can manually turn off the MVR by long pressing the ON/OFF button (6). Use the same button to turn it back on.
- You can change the camera exposure in the recording mode by pressing the UP/DOWN button.

Note: Do not turn off the recorder manually if it is in the recording mode (this may damage the last recording). First stop the recording and then turn off the device. The MVR can operate independently for a certain period of time. The offline operation time depends on the status and charge of the removable battery.

Recommendation: Use the recording mode with a minimum video length (2 minutes). In this case, the pauses between videos will be minimal. The longer the videos are, the longer are the pauses between them.

Before using the MVR, it is important to format your memory card using specialized tools. We recommend using a free SD Formatter utility. Use a search engine to find and download it from one of many Internet resources or from the web portal <http://www.sdcard.org>.

Formatting is necessary to optimize the memory card access speed. The system formats the card in accordance with SD Memory Card Format Specification, which allows the MVR to access the card faster. This cannot be done with regular Windows formatting tools. SD Formatter also (by selecting option of Format Size Adjustment = ON) creates an optimal file system structure (cluster size, etc.).

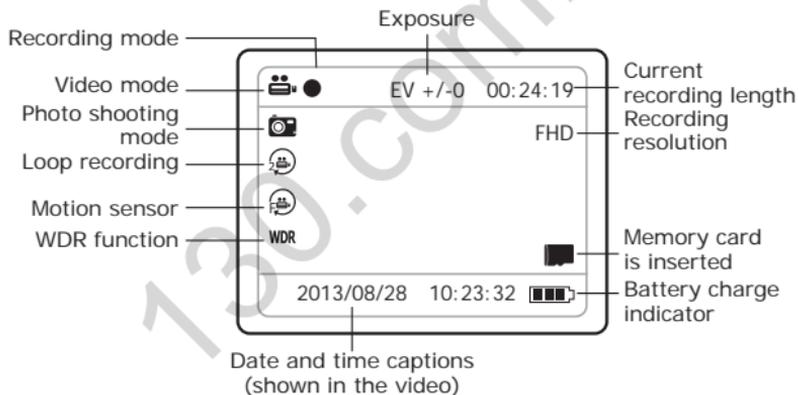


If you use an unformatted memory card, the MVR may fail to record or record incorrectly (long pauses between videos). Formatting with SD Formatter reduces the duration of pauses to a minimum.

One must adjust the MVR settings before using the device. The main settings are optimal by default (factory settings) but in any case, you must set the exact time and date. This is necessary for correct functioning in the recording mode and further analysis of recorded video sequences.

1. Do not connect the MVR to the power supply yet. First make sure that all the indicators are off and then insert the memory card. The memory card is inserted with connectors towards the display.
2. Connect the recorders' power unit to the car's cigarette lighter socket and supply the power. When you turn on the MVR, it automatically switches to the recording mode. That is why you will see the real time camera image at once (loop-through channel) and the recording mode indicator will light up.

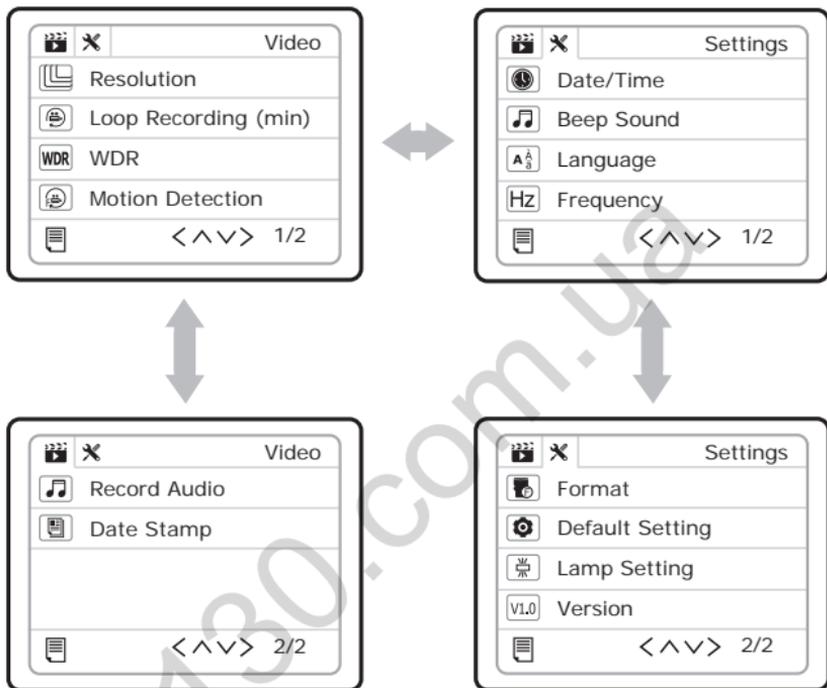
Main window icons definition



3. Press the REC/SNAP button to stop the recording first, if you want to go to the setup menu (the recording mode will take some time to shut down as it is closing and saving the current file) and then press the MENU button.
4. Use UP and DOWN buttons to navigate through the menu, REC/SNAP to go to the submenu, and MENU button to go back.

Settings menu

Following icons can be found in the settings menu:



Resolution	<p>FHD 1920x1080; HD 1280x720; WVGA 848x480; VGA 640x480.</p> <p>Specifies the resolution of recorded videos.</p> <p>It is recommended to record in 1920x1080 mode if you use 8-32 Gb memory cards.</p>
Loop recording	<p>Off; 2 Minutes; 5 Minutes; 10 Minutes.</p> <p>Setting the length of recorded videos.</p> <p>We recommend using the recording mode with a minimum video length (2 minutes). In this case, the pauses between videos will be minimal.</p>
WDR	<p>Off; On.</p> <p>Switches the high dynamic range option on and off.</p> <p>We recommend using this function to get a high quality image when moving against the light or in case of sudden light changes.</p>
Motion Detection	<p>Off; On.</p> <p>Turns the motion sensor auto recording function on and off.</p> <p>We recommend against using the motion sensor auto recording function when the vehicle is in motion. This function can be used when the car is parked.</p>
Record Audio	<p>Off; On.</p> <p>Turns the built-in microphone on/off.</p> <p>We recommend using the microphone at all times, because audio provides additional information in case of controversial road situations.</p>
Date Stamp	<p>Off; On.</p> <p>Turns the date and time captions display option on an off.</p>

Date/Time	<p>Date and time setting.</p> <p>We recommend that you use accurate date and time settings and check them periodically. Date format used: DD / MM / YYYY (day / month / year), MM / DD / YYYY, YYYY / MM / DD. Time format used: 24 hours (hour:minute:second).</p>
Beep Sound	<p>Off; On.</p> <p>Turns the beep sound of the keypad on and off.</p>
Language	<p>Menu language selection.</p>
Frequency	<p>50 Hz; 60 Hz.</p> <p>Built-in video camera setting.</p>
Format	<p>OK; Cancel.</p> <p>Memory card formatting.</p>
Default Setting	<p>OK; Cancel.</p> <p>Restart the device with factory settings.</p>
Lamp setting	<p>Auto; Off.</p> <p>Infrared light settings.</p> <p>In the «Auto» mode, the lights turns on/off automatically, depending on the lighting conditions. You can turn off the infrared lights completely by pressing «Off» button. We recommend keeping these lights off when driving. You can enable this option when the vehicle is parked.</p>
Version	<p>Display the MVR firmware version.</p>

- After the settings have been adjusted do not forget to resume the recording by pressing REC/SNAP button.
- Mount the MVR on the windshield and connect it to a power supply.

Settings menu in the photo shooting mode

Use the MODE button to switch to the photo shooting mode and take a snapshot by pressing the REC/SNAP button.

Resolution	12M 4032x3024; 8M 3264x2448; 5M 2592x1944; 3M 2048x1536.
Date Stamp	Off; Date; Date/Time.

Viewing records

You can view the records directly from the MVR. Other options are: connect the MVR to your personal computer with the UBS cable that comes in the package or remove the memory card and insert it directly into your PC.

MVR viewing

Stop the current recording by pressing the REC/SNAP button, then switch to the «View» mode using the MODE button.

To navigate through your videos use UP and DOWN buttons. The REC/SNAP button will start and pause playback.

The MENU button in the «View» mode controls photo and video files submenu – delete current recording or all recordings stored on the memory card.

Use MODE button to exit from the viewing mode.

When you finish viewing do not forget to resume the recording by pressing the REC/SNAP button.



Connect the frame of the device with the mount.



Install the MVR and fix the power supply cable as shown in the drawing.



You can rotate the recorder in any direction around its axis.



To remove the MVR from the mount, follow the steps shown in the drawing.

Recommendation: Install your MVR as high as possible (MVR frame right next to the rear view mirror or behind it) in the position in which the lens is titled slightly downward at an angle of about 15°. If the MVR is mounted too low (on the dashboard or a bit higher), the recorded videos will not provide full information about the road situation because it is impossible to see the front of your vehicle, therefore there is no «reference point». Recordings will be significantly dimmed if the device is mounted in parallel with the road or at an upward angle.

Specifications

ENG

Camera angle	135°
Recording resolution	FHD 1920x1080 (30 fps); HD 1280x720 (30 fps); WVGA 848x480 (30 fps); VGA 640x480 (30 fps).
Camera rotation ability	Device rotation ability
Video specification	Video Codec: H.264, format MOV.
Sound recording	Yes
Mute	Yes, using the menu
USB interface	Yes
HDMI video output	Yes
Display	2,5", rotatable
Memory card support	SDHC, up to 32 GB
Memory card included	Yes, Gazer micro SDHC + Adapter
Date and time display	Yes
Auto start on power up	Yes, in the recording mode
Glass mounting type	Vacuum
Power	5V, PSU 12-24V connection to the car's cigarette lighter socket
Dimensions, mm	98x63x29
Weight, gram	102

1GB memory recording time

Resolution	Memory card capacity (1GB)
VGA 640x480, (30 fps)	27 min.
WVGA 848x480, (30 fps)	27 min.
HD 1280x720, (30 fps)	16 min.
FHD 1920x1080, (30 fps)	8 min.