



SOLOGOOD 5803

5.8G FPV Monitor with DVR
User manual



Read the entire manual before first use and keep it for future reference.

Rotorama, s.r.o. · www.rotorاما.cz

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1. Safety instructions

1.1 Before first use

Read the entire instruction manual to become familiar with the features of the product before operating. Keep the manual; if you pass the product on to another person, pass the manual on with it.

✳ **Video output and input cannot work at the same time.**

1.2 Intended use and age recommendation

The SOLOGOOD 5803 is a receiving monitor for analogue 5.8 GHz video signals with a built-in recording module (DVR). It is intended for viewing the image from a video transmitter (VTX) of a model aircraft or another device and for recording that image on a memory card. The device itself **does not transmit** any radio signal — it only receives.

- **Age recommendation: over 14 years old.** Using any near eye displays on children under 14 can cause eye development problems.
- **This is not a toy.** It contains a lithium-ion battery and small parts. Keep it out of reach of small children.
- Any use other than described, modifications of the device and interference with its internal wiring are not permitted and void the claim from defective performance.

1.3 Built-in battery

The device has a built-in lithium-ion polymer battery of 3.7 V / 1200 mAh, which is **not intended to be replaced by the user.**

- Charge only from the supplied or an equivalent power source as described in Chapter 3. Never apply a voltage outside the range given in the specification.
- Charge on a non-flammable surface and within sight. Charging unattended is dangerous.
- Do not charge or use the device if the battery is visibly swollen or overheated, or if liquid is leaking from it. Disconnect such a device immediately, place it away from flammable objects and have it disposed of professionally (see Chapter 8.3).
- Do not expose the device to temperatures above the normal room range, to direct sunlight in a closed vehicle or to open fire. Never puncture, disassemble or burn the battery.
- In the event of electrolyte leakage, avoid contact with skin and eyes. If your eyes are affected, rinse them with plenty of clean water and seek medical attention.
- Do not leave the battery fully discharged for a long time. Recharge a device that is not in use approximately every three months.

❖ **The battery is built in. Leave its removal to a qualified person, or hand over the whole device at a take-back point (Chapter 8.3).**

1.4 Operating environment and handling

- Please avoid wet or humid environments. The device is not protected against the ingress of water.
- Switch the device off before connecting or disconnecting the antennas, the AV cable and the memory card.
- Never operate the device without antennas fitted to both antenna connectors.
- Do not clean the display or the housing with solvents, spirit or abrasive agents.
- Protect the device against being dropped and against impact. After a fall, check it before further use.
- Do not watch the monitor while driving a vehicle or during any other activity that requires your attention.

2. Product description

2.1 Controls and connectors



Layout of the keys, connectors and indicators

- ① **Key 1** — short press: into MENU mode; long press (more than 2 sec): Power ON/OFF.
- ② **Key 2** — short press: Auto-Searching; long press (more than 1.5 sec): into AV mode.
- ③ **Key 3** — short press: to start or stop Recording.
- ④ **Key 4** — short press: Band+ (change bands A-B-E-F-R circularly).
- ⑤ **Key 5** — short press: Channel+ (change channels 1-2-3-4-5-6-7-8 circularly).
- ⑥ **Antenna port A** — RP-SMA male.
- ⑦ **Antenna port B** — RP-SMA male.
- ⑧ **AV Jack** — in RF receiving mode it can output the video signal; in AV mode the video signal can be fed in.
- ⑨ **Micro-USB charging port** — supports DC 5-23 V wide voltage.
- ⑩ **Card slot** — used for inserting the memory card.
- 11 RESET** — power reset.
- 12 Charging indicator** — when charging, the red light is on; when full, the green light is on.
- 13 REC indicator** — shows the different working states of the DVR module.

2.2 AV connector

The video signal is fed in and out through a 3.5 mm jack connector. The wiring is shown in the figure — *GND* is the common conductor, *Video in/out* the video signal.



AV connector wiring (3.5 mm jack)

✳ **Video output and input cannot be used at the same time.**

2.3 Dimensions



Device dimensions: 146 × 80 × 13 mm (antennas not included)

3. Power supply and charging

3.1 Charging the battery

The battery is charged through the Micro-USB port ⑨. The recommended source is a DC 5 V / 2 A power adapter; the port supports an input voltage in the range of DC 5–23 V. The maximum charge current of the built-in battery is 500 mA.

- While charging, the charging indicator **12** is red.
- When fully charged, the indicator turns **green**.
- Charge the battery fully before first use.

Working time from each full charge according to the manufacturer:

Mode	Working time
DVR module ON	around 2.5 hours
DVR module OFF	around 3.5 hours

3.2 Powering from an external source

The device can be powered from an external DC source of 5–23 V connected to the Micro-USB port ⑨ — for example from a flight battery through a suitable adapter cable. Always check the polarity and the voltage of the source; a voltage outside the stated range will damage the device.

❖ **Under no circumstances may an external power source be connected to the AV connector or to the antenna connectors.**

4. Operation

4.1 Switching on and off

The device is switched on and off by a **long press of Key 1** (more than 2 sec). Fit both antennas before switching on.

4.2 Selecting the band and channel

In the normal mode (the received image is displayed), two keys are used for tuning:

- **Key 4** — a short press changes the band in the order A → B → E → F → R and back to A.
- **Key 5** — a short press changes the channel from 1 to 8 and back to 1.

The frequencies of the individual band and channel combinations are listed in Chapter 6.1. Set the monitor to the same band and channel as the video transmitter.

4.3 Auto-searching

A **short press of Key 2** starts Auto-Searching — the receiver scans the channels and tunes to the one with the strongest signal. The video transmitter must be switched on during the search.

4.4 AV mode

A **long press of Key 2** (more than 1.5 sec) switches the device into AV mode, in which it displays the video signal fed in through the AV Jack ® instead of the signal from the receiver.

4.5 MENU

In the normal mode, press **Key 1** briefly to enter the MENU mode. In MENU mode the keys have the following meaning:

Key	Function in MENU mode
Key 1	Scroll options bar
Key 2	Auto-Searching
Key 3	Invalid
Key 4	Enter / Value +
Key 5	Enter / Value –

The menu is bilingual — English and Chinese.

5. Recording and playback (DVR)

5.1 Memory card

The recording is stored on a TF (microSD) card inserted in the card slot ⑩. Cards up to 32 GB are supported; a C10 speed class card is recommended.

- Insert and remove the card only with the device switched off.
- Do not remove the card during recording or playback — you risk losing the recording and damaging the file system.
- Format a new card before first use and test the recording on the ground.

5.2 Recording settings

The following recording parameters can be set in the MENU mode:

Item	Selectable values
REC (resolution)	VGA / D1 / HD
REC sound	ON / OFF
REC time (file splitting)	OFF / 3 min / 5 min / 10 min

Recording runs at a frame rate of 30 frames, the compress format is MJPEG and the record file format is AVI.

5.3 Recording

Recording is started and stopped by a **short press of Key 3** in the normal mode. The working states of the recording module are shown by the REC indicator **13**.

5.4 Playback

In the menu mode, select the *DVR* option bar to enter the DVR mode. In DVR mode the keys have the following meaning:

Key	Function in DVR mode
Key 1	Return / quit playback mode
Key 2	Delete current file
Key 3	Play / pause
Key 4	Forward selection of video; fast forward when video is playing
Key 5	Backward selection of video; fast rewind when video is playing

✳ **Deleting a file with Key 2 cannot be undone.**

6. Frequencies and legal operation

6.1 Frequency table

The receiver can be tuned to 40 channels in five bands. The frequencies are given in MHz.

Band	CH1	CH2	CH3	CH4	CH5	CH6	CH7	CH8
A	5865	5845	5825	5805	5785	5765	5745	5725
B	5733	5752	5771	5790	5809	5828	5847	5866
E	5705	5685	5665	5645	5885	5905	5925	5945
F	5740	5760	5780	5800	5820	5840	5860	5880
R	5658	5695	5732	5769	5806	5843	5880	5917

Band R corresponds to the RaceBand channels.

6.2 Restrictions in the Czech Republic

The monitor itself does not transmit, so transmit power limits do not apply to it. They do apply to the **video transmitter (VTX)** the monitor works with, and therefore not all channels listed in the table can be used legally in the Czech Republic.

- Under general authorisation of the Czech Telecommunication Office No. VO-R/10/05.2025-5 (Art. 3(2), row k), short-range devices are permitted the band **5725–5875 MHz** with a radiated power of no more than **25 mW e.i.r.p.**
- Outside this band lie the **whole band E** (5645, 5665, 5685, 5705, 5885, 5905, 5925 and 5945 MHz), channel **F8** (5880 MHz) and channels **R1, R2, R7 and R8** (5658, 5695, 5880 and 5917 MHz). They cannot be used legally with a video transmitter in the Czech Republic.
- The 5645–5725 MHz segment is reserved for the radiolocation service (meteorological and military radars), the 5875–5935 MHz segment for intelligent transport systems related to road safety.
- Channel **A8** (5725 MHz) lies exactly on the lower edge of the permitted band; with the usual width of an analogue channel we recommend not using it.
- The user is responsible for setting the channel and the transmit power on the video transmitter.

*** The limits stated apply in the Czech Republic. If you operate the equipment in another country, follow the regulations of the state in which you are — the permitted bands and maximum powers differ from country to country.**

7. Specification, maintenance and troubleshooting

7.1 Specification

Model	SOLOGOOD 5803
Name	5.8G FPV Monitor
Screen	4.3 inch IPS, resolution 800 × 480
Display ratio	16 : 9
View angle	full view
Brightness	500 cd/m ² with high brightness backlight LED
Video delay	less than 20 ms
Receiver	5.8 GHz, 40 channels (bands A, B, E, F, R)
Antenna	2 × RP-SMA male
AV Jack	external video signal input or output
Card slot	TF-Card, support up to 32 G (C10 recommended)
REC	VGA / D1 / HD; REC sound ON / OFF; REC time OFF / 3 / 5 / 10 min
Frame rate	30 frames
Compress format	MJPEG
Record file format	AVI
Languages	English and Chinese
Power adapter	DC 5 V / 2 A; supports DC 5–23 V
Battery	Li-ion polymer 3.7 V / 1200 mAh, built in
Power consumption	400 mA at 3.7 V in normal mode and in record mode
Max. charge current	500 mA
Dimension	146 × 80 × 13 mm
Weight	159 g (antennas not included)

7.2 Maintenance and storage

Clean the device with a dry or slightly damp soft cloth. Keep the connectors clean and dry.

- Store in a dry place, away from direct sunlight and heat sources.
- Charge the device before a longer period of storage and repeat the charge approximately every three months.

- Remove the antennas for transport so that they do not get bent and the antenna connectors are not damaged.

7.3 Troubleshooting

► **The device cannot be switched on**

- The battery is flat — connect the charger and wait until the charging indicator lights up.
- A short press of Key 1 does not switch the device on; press it for more than 2 sec.
- The device does not respond — use RESET **11** and switch it on again.

► **The image is noisy or does not appear**

- Check that antennas are fitted to both connectors and that they are tightened.
- Check that the monitor is set to the same band and channel as the video transmitter; if necessary use Auto-Searching (Key 2).
- Check that the video transmitter is powered.
- The device may be switched to AV mode — return to receiving mode with a long press of Key 2.

► **Recording does not work**

- Check that a memory card of up to 32 GB is inserted and that it is formatted.
- The card may be full — transfer the files to a computer or delete them.
- Try a C10 speed class card.

► **Short working time**

- Switch the DVR module off when it is not needed — this extends the working time.
- The battery ages. If the working time has dropped well below the values in Chapter 3.1, contact your retailer.

8. Information for the EU and Czech Market

8.1 Importer and responsible person in the EU

The product is placed on the European Union market by the importer stated below, who is at the same time the responsible person within the meaning of Article 16 of Regulation (EU) 2023/988 of the European Parliament and of the Council on general product safety (GPSR).

Importer / responsible person in the EU	Rotorama, s.r.o.
Company ID (IČO)	051 57 692
VAT ID (DIČ)	CZ05157692
Registered office	Okrajová 1351, 674 01 Třebíč, Czech Republic
E-mail	info@rotorاما.cz
Phone	+420 252 252 098
Website	www.rotorاما.cz

8.2 Product conformity



- The product bears the **CE** marking and complies with the requirements of the applicable European Union harmonisation legislation.
- A copy of the **EU Declaration of Conformity** is available from the importer at the address stated above or at the e-mail address info@rotorاما.cz.
- **Product identification:** the type designation (SOLOGOOD 5803) and the serial number are given on the rating label on the product and on its packaging.

8.3 Disposal of electrical equipment and batteries



- The crossed-out wheeled bin symbol on the product, its packaging or in the documentation means that at the end of its service life the product **must not be disposed of together with mixed municipal waste**.
- Hand it over at a take-back point for electrical equipment – at a collection yard, at a take-back point of a collective system, or at the retailer when purchasing a new equivalent product. Take-back is free of charge for the end user.
- The product contains a built-in rechargeable battery. Where possible, hand it over together with the device – do not dispose of the battery in mixed waste or in fire.
- The obligations under Act No. 542/2020 Coll., on end-of-life products, are fulfilled by the importer through a collective take-back system.
- Proper disposal helps prevent negative impacts on the environment and human health and contributes to the reuse of secondary raw materials.

Through its contractual partner **ASEKOL a.s.**, the company ensures the take-back of waste electrical equipment from households and the separate collection of waste electrical equipment, batteries and accumulators in accordance with the applicable legislation. The customer is entitled to hand over old electrical equipment or a battery or accumulator at any collection point of the above contractual partner. The addresses of these take-back points are listed at www.asekol.cz, www.ecobat.cz and also <https://visoh2.mzp.cz/RegistrMistZO/RegistrMistZOPublic/MapaMistZpetOdberu>.

9. Warranty and rights arising from defective performance

The rights and obligations of the contracting parties are governed by Czech law, in particular by Act No. 89/2012 Coll., the Civil Code, and Act No. 634/1992 Coll., on consumer protection. The manufacturer **has not issued any warranty terms** for this product; the rights of the buyer set out below therefore apply.

- The seller is liable to the buyer for the product being free of defects on receipt. If the buyer is a consumer, a defect may be notified **within two years of receipt** of the product (Section 2165 of the Civil Code).
- If a defect appears within **one year** of receipt, the product is deemed to have been defective already at the time of receipt (Section 2161(5) of the Civil Code).
- When purchasing online, a consumer has the right to **withdraw from the contract within 14 days** of receiving the goods without giving a reason (Section 1829 of the Civil Code).
- Claims should be made with the retailer from whom you purchased the product. The importer's contact details are given in Chapter 8.1.
- The competent body for out-of-court settlement of consumer disputes is the **Czech Trade Inspection Authority**, Štěpánská 796/44, 110 00 Prague 1, www.coi.cz.