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› SoloGood EV800D FPV Goggles User Manual with DVR and 5.8G 40CH Receiver

SoloGood EV800D

SoloGood EV800D FPV Goggles User Manual

Model: EV800D | Brand: SoloGood

1. INTRODUCTION

This manual provides detailed instructions for the proper setup, operation, and maintenance of your SoloGood EV800D FPV Goggles. Please read this manual thoroughly before using the product to ensure safe and efficient operation.



Figure 1: SoloGood EV800D FPV Goggles. This image displays the overall design of the goggles, featuring the main body, head strap, and two antennas (one omnidirectional, one patch) attached to the top.

Ergonomically designed and beautiful
suitable for different faces
ultra-wide-angle viewing angle up
to 82 degrees

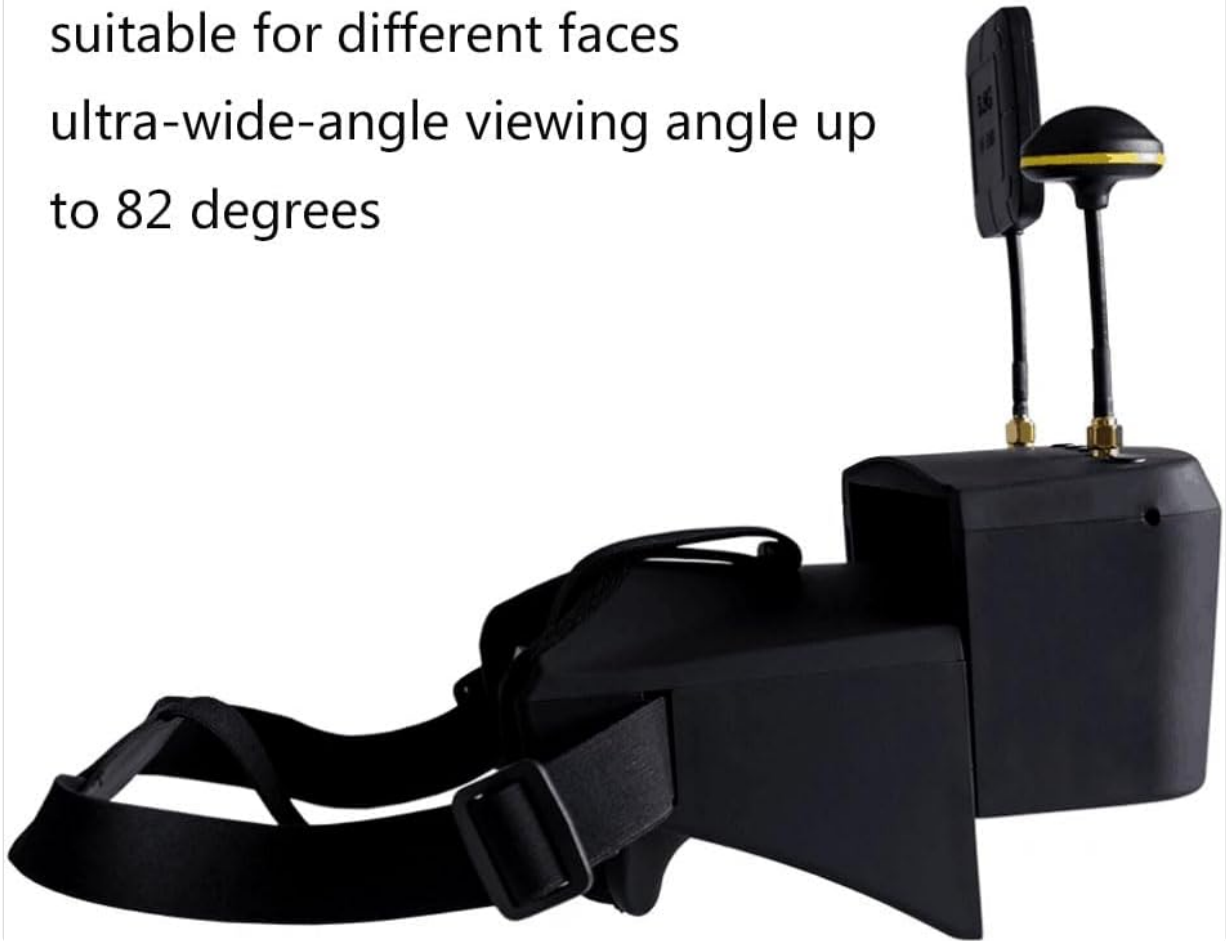


Figure 2: Ergonomic design of the EV800D FPV Goggles. This side view highlights the comfortable fit and wide viewing angle of the goggles, designed to accommodate various face shapes.

2. KEY FEATURES

- 5-inch 800x480 pixel high-brightness LCD screen.
- Built-in 5.8GHz 40-channel receiver with RaceBand support.
- Integrated Digital Video Recorder (DVR) for recording up to 720x576px resolution (requires C10 speed microSD card).
- Dual antenna reception for enhanced signal stability.
- Real-time video display with minimal latency.
- Automatic frequency search function.
- Ergonomic design suitable for various face shapes, offering an 82-degree ultra-wide-angle viewing experience.
- Built-in 3.7V/2000mAh battery providing approximately 2 hours of operation.
- Support for external video signal input.

3. PACKAGE CONTENTS

Verify that all items are present in your package:

- SoloGood EV800D FPV Goggles

- Omnidirectional Antenna (e.g., 6 Leaf RHCP Antenna 5dBi)
- Patch Antenna (e.g., 16dBi Panel Antenna)
- USB Charging Cable
- AV Input Cable
- Carrying Case
- User Manual (this document)

Package:



Figure 3: Contents of the EV800D package. This image shows the goggles, a carrying case, two antennas, a USB charging cable, and an AV input cable.

4. PRODUCT OVERVIEW

4.1 Components and Controls

Familiarize yourself with the various components and controls of your EV800D FPV Goggles.

Build in DVR

Record up to HD 720*576px full frame rate video,no frame lost (C10 card required)
Replay in MENU

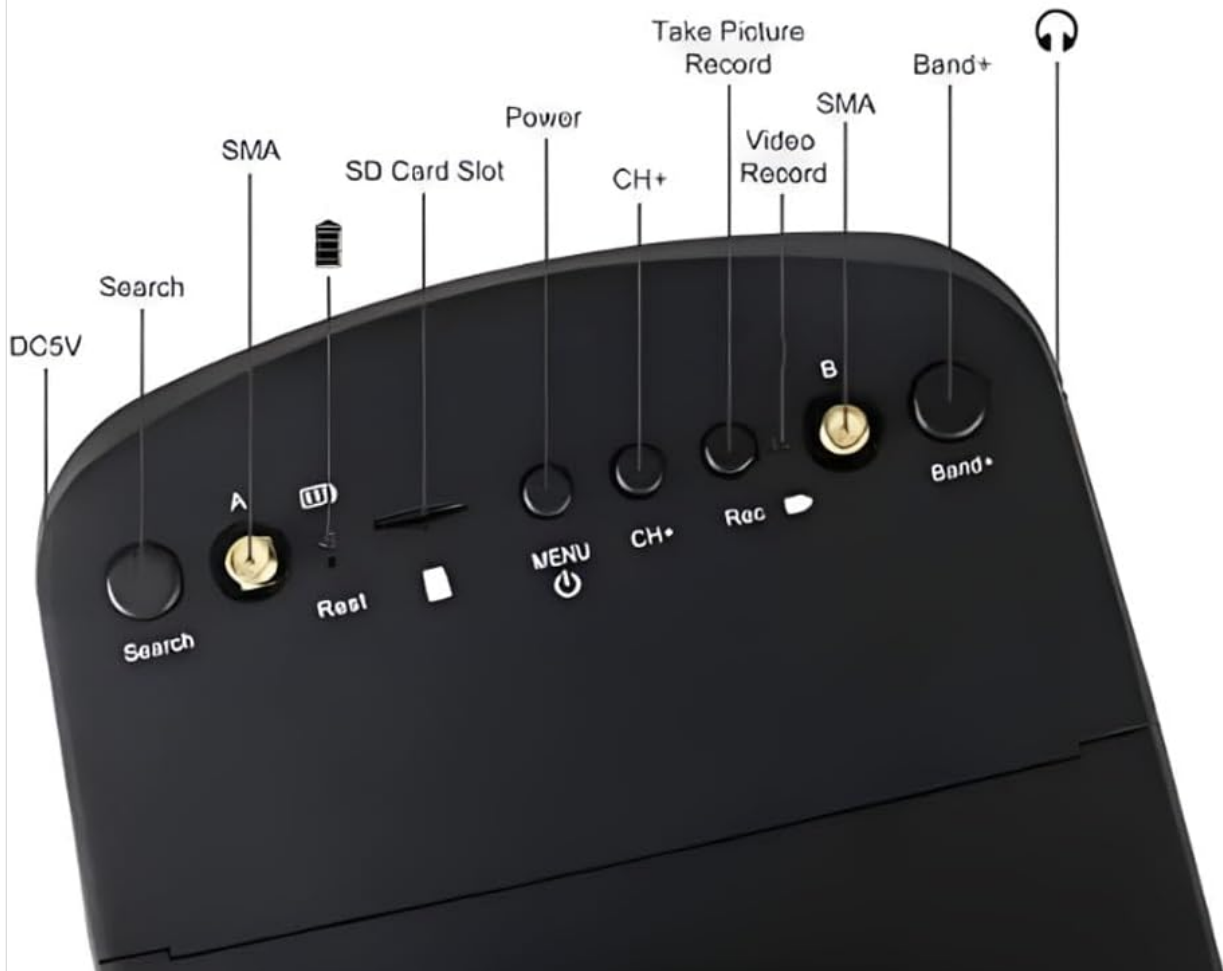


Figure 4: Top view of the EV800D Goggles showing controls and ports. Labels include DC5V input, Search button, SMA antenna connectors (A and B), Reset button, SD Card Slot, Power button, Menu button, CH+ button, Rec (Record) button, and Band+ button, along with a headphone jack.

- **DC5V:** Power input for charging the internal battery.
- **Search:** Initiates automatic frequency scanning.
- **SMA (A/B):** Connectors for the two included antennas.
- **SD Card Slot:** Insert a microSD card (Class 10 recommended) for DVR recording.
- **Power:** Turns the goggles on or off.
- **Menu:** Accesses the on-screen display (OSD) menu for settings.
- **CH+:** Changes the channel within the selected band.
- **Rec:** Starts or stops DVR recording.
- **Band+:** Cycles through the available frequency bands.
- **Headphone Jack:** For audio output.

4.2 Antennas and Frequency Bands

The goggles utilize two antennas for improved signal reception. The frequency table below outlines the available channels and bands.

Build in 5.8G 40CH Receiver



Frequency Table								
Frequency Band A	5865	5845	5825	5805	5785	5765	5745	5725
Frequency Band A	5733	5752	5771	5790	5809	5828	5847	5866
Frequency Band A	5705	5685	5665	5645	5885	5905	5925	5945
Frequency Band A	5740	5760	5780	5800	5820	5840	5860	5880
Frequency Band A	5658	5695	5732	5769	5806	5843	5880	5917

Figure 5: Antennas and Frequency Table. This image shows the goggles with an omnidirectional 6 Leaf RHCP Antenna (5dBi) and a 16dBi Panel Antenna attached. A table lists various frequency bands (A, B, E, F, R) and their corresponding frequencies in MHz.

5.8GHz Frequency Table (MHz)

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

5. SETUP INSTRUCTIONS

5.1 Antenna Installation

1. Carefully screw the two provided antennas onto the SMA connectors labeled A and B on the top of the goggles. Ensure they are finger-tight.

5.2 Charging the Battery

1. Connect the USB charging cable to the DC5V port on the goggles.
2. Connect the other end of the USB cable to a 5V USB power source (e.g., computer USB port, USB wall adapter).
3. The charging indicator light will illuminate. Charging typically takes several hours for a full charge.
4. A full charge provides approximately 2 hours of operating time.



Figure 6: EV800D Goggles with dimensions and battery details. This image highlights the built-in 3.7V/2000mAh battery, indicating approximately 2 hours of working time per charge, along with physical dimensions of the goggles.

5.3 Powering On/Off

1. To power on, press and hold the **Power** button until the screen illuminates.
2. To power off, press and hold the **Power** button until the screen turns off.

5.4 Inserting a MicroSD Card

1. Locate the SD Card Slot on the top of the goggles.
2. Insert a Class 10 or higher speed microSD card with the contacts facing down until it clicks into place.
3. To remove, gently push the card in until it springs out.

6. OPERATING INSTRUCTIONS

6.1 Automatic Channel Search

1. Ensure your FPV transmitter is powered on and transmitting video.
2. Press the **Search** button on the goggles. The goggles will automatically scan all 40 channels across the 5.8GHz bands and lock onto the strongest signal.
3. The current frequency will be displayed on the screen.

6.2 Manual Channel and Band Selection

1. To manually change the channel, press the **CH+** button. Each press will cycle through the channels within the current band.
2. To change the frequency band, press the **Band+** button. Each press will cycle through the available bands (A, B, E, F, RaceBand).

6.3 DVR Recording

1. Ensure a Class 10 or higher microSD card is inserted.
2. To start recording, press the **Rec** button. A recording indicator will appear on the screen.
3. To stop recording, press the **Rec** button again. The recording indicator will disappear.
4. Recorded videos are saved to the microSD card in 720x576px resolution.

6.4 Menu Navigation

1. Press the **Menu** button to access the On-Screen Display (OSD) menu.
2. Use the **CH+** and **Band+** buttons to navigate through menu options.
3. Press the **Menu** button again to select an option or confirm a setting.
4. To exit the menu, navigate to the "Exit" option or wait for the menu to time out.

6.5 Using as a Detachable Monitor

The screen unit can be detached from the headset to function as a standalone FPV monitor. Refer to the product's physical design for detachment mechanism, typically involving clips or latches.

7. MAINTENANCE

- **Cleaning:** Use a soft, dry cloth to clean the exterior of the goggles. For the screen, use a microfiber cloth specifically designed for optics. Avoid abrasive cleaners or solvents.
- **Storage:** Store the goggles in a cool, dry place, away from direct sunlight and extreme temperatures. Use the provided carrying case for protection during transport.
- **Battery Care:** For long-term storage, ensure the battery is charged to approximately 50%. Avoid fully discharging the battery for extended periods.

- **Antennas:** Ensure antennas are securely attached before each use. Avoid bending or stressing the antenna connectors.

8. TROUBLESHOOTING

- **No Video Signal:**
 - Ensure your FPV transmitter is powered on and functioning correctly.
 - Verify that the goggles are on the correct channel and band. Use the **Search** function.
 - Check antenna connections on both the goggles and the FPV transmitter.
 - Ensure there are no significant obstructions between the transmitter and receiver.
- **Poor Video Quality / Static:**
 - Adjust antenna orientation on both the goggles and the FPV transmitter.
 - Try a different channel or band, as interference may be present.
 - Ensure antennas are securely connected.
 - Move closer to the FPV transmitter to rule out range issues.
- **DVR Recording Issues:**
 - Ensure a microSD card is inserted correctly.
 - Use a Class 10 or higher speed microSD card. Slower cards may result in dropped frames or recording errors.
 - Check if the microSD card has sufficient free space.
 - Format the microSD card using the goggles' menu if issues persist (refer to menu navigation).
- **Goggles Not Powering On:**
 - Ensure the battery is sufficiently charged. Connect to a charger and wait a few minutes before attempting to power on again.
 - If charging indicator does not light up, try a different USB cable or power source.

9. SPECIFICATIONS

Feature	Detail
Screen Size	5 inches
Resolution	800 x 480 pixels
Field of View (FOV)	82 degrees
Receiver	5.8GHz 40CH (RaceBand supported)
DVR Recording Resolution	Up to 720 x 576 pixels
Battery	Built-in 3.7V/2000mAh
Operating Time	Approximately 2 hours
Connectivity	Auxiliary (AV input)
Item Weight	13.2 ounces (approx. 375g)

Feature	Detail
Dimensions (approx.)	180mm (7 inches) x 145mm (5.7 inches) x 82mm (3.23 inches)
Compatible Devices	FPV camera, FPV transmitter

10. WARRANTY AND SUPPORT

For warranty information and technical support, please refer to the official SoloGood website or contact your retailer. Keep your purchase receipt as proof of purchase.