

iFlight MC36557-9-2

iFlight Albatross 5.8GHz FPV Antenna User Manual

Model: MC36557-9-2

1. PRODUCT OVERVIEW

The iFlight Albatross 5.8GHz FPV Antenna is designed for use with FPV goggles and drones, providing reliable signal transmission and reception. This package includes two Albatross 5.8GHz 150mm antennas, available in various connector types and polarizations to suit different FPV setups.



Figure 1.1: Two iFlight Albatross 5.8GHz FPV Antennas. These antennas are designed for optimal performance in the 5.8GHz frequency band, commonly used in FPV systems.

Key Features:

- Frequency Range: 5000-6000MHz
- Gain: 3dBi

- Axial Ratio: 0.7
- Cable Type: RG141
- Dimensions: 16*150mm
- Interface Options: RHCP SMA, RHCP RP-SMA, LHCP RP-SMA
- Polarization: RHCP/LHCP
- SWR: ≤ 1.5 (ON 5.8GHz)

2. SETUP AND INSTALLATION

Proper installation of your iFlight Albatross antenna is crucial for optimal performance. Ensure that the antenna's connector type matches the port on your FPV goggles or drone's video transmitter (VTX).

2.1 Identifying Connector Types

The Albatross antenna is available with RHCP SMA, RHCP RP-SMA, or LHCP RP-SMA interfaces. Verify the connector type of your antenna and device before attempting to connect.



Figure 2.1: Albatross Antennas with RHCP RP-SMA and SMA Male Connectors. It is important to match the antenna's connector to the corresponding port on your FPV equipment.

2.2 Connecting the Antenna

1. Carefully align the antenna's connector with the corresponding port on your FPV goggles (e.g., Fatshark EV200D) or drone's VTX.
2. Gently screw the antenna onto the port. Do not overtighten, as this can damage the connector. Hand-tightening is usually sufficient.
3. Ensure the connection is secure to prevent signal loss during operation.



Figure 2.2: Antenna Connected to FPV Goggles. The antenna should be securely attached to the video receiver (VRX) port on your goggles for clear video reception.

2.3 Polarization Matching

For best signal quality, ensure that the polarization of your transmitting antenna (on the drone) matches the polarization of your receiving antenna (on the goggles). Both should be either Right-Hand Circularly Polarized (RHCP) or Left-Hand Circularly Polarized (LHCP).

3. OPERATING GUIDELINES

The iFlight Albatross antenna is designed for 5.8GHz FPV systems. Adhere to the following guidelines for optimal performance:

- **Frequency Range:** Operate within the 5000-6000MHz frequency range for which the antenna is optimized.
- **Line of Sight:** Maintain a clear line of sight between your drone's transmitting antenna and your FPV goggles' receiving antenna for the strongest signal.
- **Antenna Orientation:** While circular polarization reduces multipath interference, orienting your antennas generally towards each other can improve signal strength, especially at longer distances.
- **Avoid Obstructions:** Physical obstructions like trees, buildings, or dense foliage can significantly degrade signal quality.

4. MAINTENANCE AND CARE

To ensure the longevity and consistent performance of your iFlight Albatross antennas, follow these maintenance tips:

- **Clean Connectors:** Periodically inspect and clean the gold-plated connectors to remove any dirt, dust, or corrosion. Use a soft, dry cloth or a cotton swab with isopropyl alcohol if necessary.
- **Avoid Bending:** While the antenna cable is flexible (RG141), avoid sharp bends or excessive force that could damage the internal wiring or the connector joint.
- **Storage:** Store antennas in a clean, dry environment away from extreme temperatures and direct sunlight when not in use.
- **Physical Inspection:** Regularly check the antenna for any signs of physical damage, such as frayed cables, bent

connectors, or cracks in the housing.



Figure 4.1: Flexible Design of Albatross Antennas. While flexible, avoid extreme bending to prevent internal damage.

5. TROUBLESHOOTING

If you experience issues with your iFlight Albatross antenna, consider the following troubleshooting steps:

- **Poor Signal/Video Breakup:**

- Ensure both transmitting and receiving antennas have matching polarization (RHCP to RHCP, LHCP to LHCP).
- Check all connections for tightness and cleanliness. A loose or dirty connection can significantly degrade signal.
- Verify that your FPV system is operating on the correct frequency channel.
- Reduce distance to the drone or move to an area with fewer obstructions.
- Inspect antennas for physical damage. Even minor damage can affect performance.

- **Antenna Not Fitting:**

- Confirm that you have the correct connector type (SMA vs. RP-SMA) for your device. SMA and RP-SMA connectors are similar but not interchangeable.

6. SPECIFICATIONS

Detailed technical specifications for the iFlight Albatross 5.8GHz FPV Antenna:



Figure 6.1: Antenna Dimensions and Connector Detail. The 150mm length provides flexibility in mounting, and the robust connector ensures a reliable link.

Attribute	Value
Model	Albatross 5.8GHz FPV Antenna
Frequency Range	5000-6000MHz
Gain	3dBi
Axial Ratio	0.7
Cable Type	RG141
Weight	10.9g (per antenna)
Dimension	16*150mm
Interface Options	RHCP SMA, RHCP RP-SMA, LHCP RP-SMA
Polarization	RHCP/LHCP
SWR	≤ 1.5 (ON 5.8GHz)
Package Dimensions	6.2 x 1.1 x 0.39 inches
Item Weight (Package)	1.12 ounces
Manufacturer	iFlight
Model Number	MC36557-9-2
Date First Available	August 7, 2020
Number of Items	2 (Antennas)

7. WARRANTY AND SUPPORT

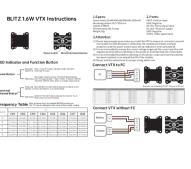
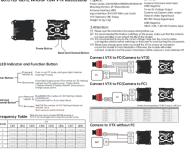
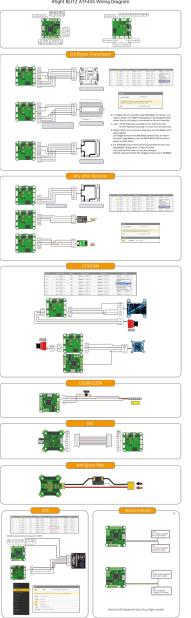
Specific warranty information for the iFlight Albatross 5.8GHz FPV Antenna is not provided in this manual. For details regarding warranty coverage, terms, and conditions, please refer to the official iFlight website or contact their customer support directly.

For technical support, product inquiries, or assistance with troubleshooting beyond the scope of this manual, please visit the [iFlight Store on Amazon](#) or the official iFlight support channels.

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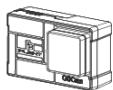
This manual is for informational purposes only. Specifications are subject to change without notice.

Related Documents

 Detailed instructions for the iFlight BLITZ 1.6W VTX, including LED indicator and function button descriptions, connection diagrams, and a frequency table.	<p>iFlight BLITZ 1.6W VTX: Setup and Operation Guide</p> <p>Comprehensive instructions for the iFlight BLITZ 1.6W VTX, covering specifications, port descriptions, connection diagrams, button functions, and frequency bands for optimal FPV system setup.</p>
 Detailed instructions for the iFlight BLITZ WHOOP 1.6W VTX, including LED indicator and function button descriptions, connection diagrams, and a frequency table.	<p>iFlight BLITZ WHOOP 1.6W VTX: Installation and Operation Guide</p> <p>Comprehensive instructions for the iFlight BLITZ WHOOP 1.6W VTX, covering specifications, port connections, button functions, wiring diagrams, frequency table, and important attention points for drone FPV systems.</p>
 Detailed wiring diagram and setup instructions for the iFlight BLITZ ATF435 flight controller, covering connections for DJI digital transmitters, various receivers, ESCs, and peripherals. Includes setup guidance for Betaflight.	<p>iFlight BLITZ ATF435 Flight Controller Wiring Diagram and Setup Guide</p> <p>Detailed wiring diagram and setup instructions for the iFlight BLITZ ATF435 flight controller, covering connections for DJI digital transmitters, various receivers, ESCs, and peripherals. Includes setup guidance for Betaflight.</p>

iFlight

GOCam PM G3
User Manuals Guide



[iFlight GOCam PM G3 User Manual Guide](#)

Comprehensive user manual for the iFlight GOCam PM G3 camera, covering installation, operation, remote control setup, app connection, software, and technical specifications.