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› JUSHENG GTmedia V8 Finder BT05 User Manual

JUSHENG BT05

JUSHENG GTmedia V8 Finder BT05 User Manual

Bluetooth DVB-S2 Satellite Finder Signal Meter

1. INTRODUCTION

The JUSHENG GTmedia V8 Finder BT05 is a compact and portable DVB-S2 satellite signal meter designed for efficient satellite dish installation and alignment. It features Bluetooth connectivity, allowing users to connect to Android and iOS devices via a dedicated application for enhanced control and signal monitoring. Equipped with a built-in lithium battery, this device offers convenience and portability for professional and home use.

2. PRODUCT FEATURES

- DVB-S2 Multi-standard demodulation & decoding.
- Bluetooth connectivity for Android and Apple applications.
- Supports full satellite selection.
- Integrated 2200mAh lithium battery for portable operation.
- LNB short circuit prompt and overload protection.
- High performance equalizer for echo cancellation.
- Automatic standard recognition and spectrum inversion.
- DiSEqCTM v2.2 modulation output for LNB and satellite antenna control.

3. PACKAGE CONTENTS

Verify that all items are present in the package:

- GTmedia V8 Finder BT05 Unit
- USB Charging Cable
- Power Adapter (5V/2A)
- User Manual

DVB-S2

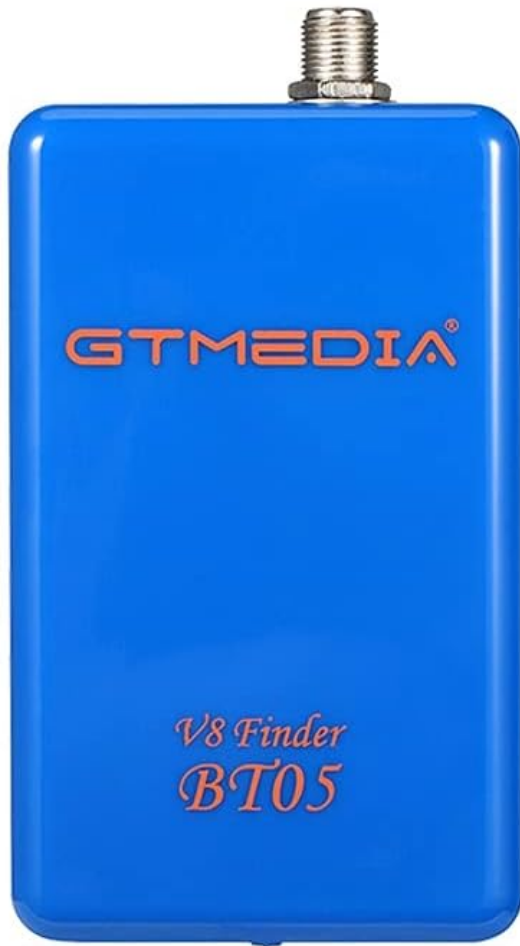


Figure 3.1: GTmedia V8 Finder BT05 unit with included accessories: USB charging cable, power adapter, and user manual.

4. PRODUCT OVERVIEW

4.1. Device Layout

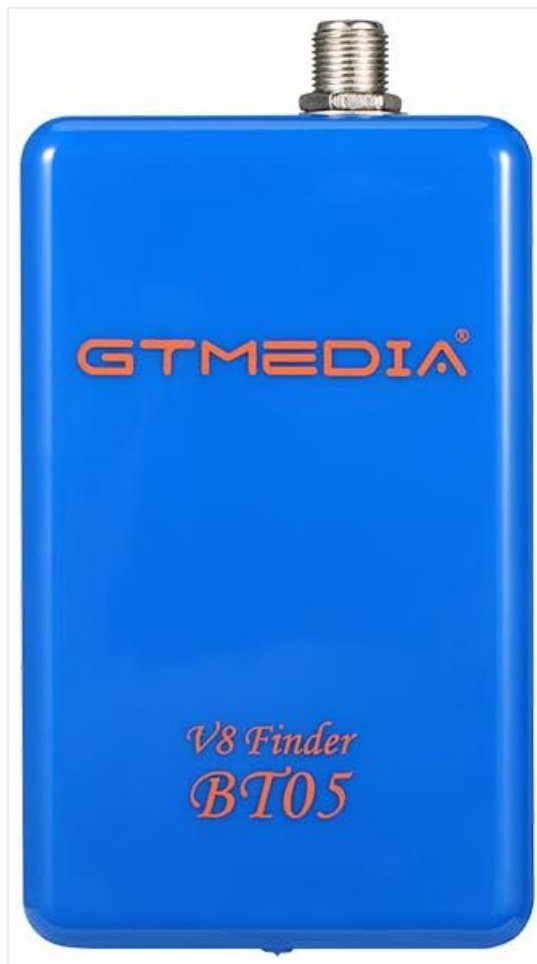


Figure 4.1: Front view of the GTmedia V8 Finder BT05, showing the GTmedia logo and "V8 Finder BT05" text.



Figure 4.2: Side view of the GTmedia V8 Finder BT05, highlighting the LNB IN port, power switch, DC 5V 2A charging input, and LED indicators.



Figure 4.3: Top view of the GTmedia V8 Finder BT05, showing the Bluetooth (blue), Power (green), and Charging (red) LED indicators.



Figure 4.4: Back view of the GTmedia V8 Finder BT05, displaying the product label with model number, battery specifications, DC input, and QR code for app download.

4.2. LED Indicators

- **Blue LED:** Flashing indicates not connected; Normally on indicates connected via Bluetooth.
- **Green LED:** Power indication. A flicker indicates low power.
- **Red LED:** Charging indicator. Long bright indicates full charge.

5. SETUP

5.1. Charging the Device

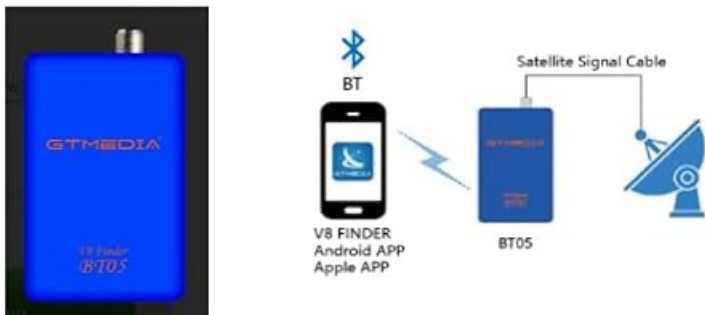
Before first use, fully charge the BT05 unit. Connect the provided USB charging cable to the DC 5V 2A input port on the device and the other end to the power adapter. Plug the adapter into a wall outlet. The red LED will illuminate during charging and turn off or remain long bright when fully charged. A full charge takes approximately 2 hours with the original 5V/2A adapter.

5.2. Downloading the Application

The GTmedia V8 Finder BT05 operates in conjunction with a mobile application. Download the "V8 FINDER" app from the Google Play Store for Android devices or the Apple App Store for iOS devices. You can scan the QR code on the back of the device (Figure 4.4) or search for "V8 FINDER" directly in your app store.

5.3. Bluetooth Connection

1. Ensure the BT05 unit is powered on by sliding the OFF/ON switch to the "ON" position.
2. Enable Bluetooth on your mobile device (Android or iOS).
3. Open the "V8 FINDER" application.
4. Within the app, follow the prompts to search for and connect to the BT05 device. The blue LED on the BT05 will stop flashing and remain solid when a successful connection is established.

GTMEDIA V8 Finder BT05 (Digital Satellite Finder)		
ID		
	You can search for "V8 FINDER" in the APP Store and google player to download the app.	
Highlight	1. DVB Finder DVB-S2 Multi standard demodulation & decoding;	
	2. Bluetooth connection for Android APP and Apple APP;	
	3. Support full satellite selection;	
	4. Built-in lithium battery 2200mAh;	
	5. Support LNB short circuit prompt, overload protection;	
	6. Technical support website: www.freesat.cn ;	
	Note: We reserve the right to change the design and OEM/ODM supported	
	Flash Memory	32MB Serial Flash
	DDR2 Memory	512M Bits

Hardware		Blue (Flashing: not connected, Normally on: connected)
		Green light: Power indication (When flicker means low power), Red light: Charging indicator (Long bright means full charge),
	Rear Panel	LNB IN : Frequency Range 950MHz to 2150MHz DVB-S/S2
		OFF/ON: Power switch DC 5V 2A : Charging input
System introduction	DVB-S2	DVB-S/S2 system standard: ETS 302 307 (SCPC and MCPC receivable from C/Ku band satellite)
		DiSEqC1.0 support, 13/18V DC @ 300mA MAX, Overload Protection, 0/22K
		Multi standard demodulation & decoding
		DVB-S2 CCM, QPSK+1/4, 1/3, 2/5, 1/2, 3/5, 2/3, 3/4, 4/5, 5/6, 8/9, 9/10
		8PSK+3/5, 2/3, 3/4, 5/6, 8/9, 9/10 16APSK+2/3, 3/4, 4/5, 5/6, 8/9, 9/10
		32APSK+3/4, 4/5, 5/6, 8/9, 9/10
		Legacy DVB-S, QPSK+1/2, 2/3, 3/4, 5/6, 7/8
		VCM mode supported
		Dummy frame insertion supported
		Automatic standard recognition
		Support 1 to 60Mbaud symbol rates
		Fast channel blind scan for RF frequency & symbol rate acquisition
		High performance equalizer, canceling echo introduced by front end
lithium battery	Specification	18650 Lithium Battery 3.7V 2200mAh 8.14Wh
	Working normally for about 2 hours, charging for 2 hours (original 5V/2A adapter test)	
Packing	Product Dimension	105*50*18 MM
	Packaged Size	140*90*55MM
	Carton Size	435*285*305MM (60pcs/ctn)
	Unit Weight	0.2 Kg with gift box
	Carton Qty&Weight	60 pcs/Carton, 12.5 kgs
	Accessories	DVB Finder BOX*1, Power adapter*1, DC USB cable*1, specification*1
Physicals	Temperature	Operation 0~+45°C; Storage -10~+60°C
	Humidity	20~90%, non-condensed

Figure 5.1: Diagram illustrating the connection flow: BT05 connects via Bluetooth to the V8 FINDER app on a mobile device, which then connects to the satellite signal cable and dish.

6. OPERATING INSTRUCTIONS

6.1. Satellite Signal Acquisition

The BT05 supports DVB-S/S2 system standards (ETS 302 307) and can receive SCPC and MCPC signals from C/Ku band satellites. It features multi-standard demodulation and decoding, including QPSK, 8PSK, 16APSK, and 32APSK. The device also supports VCM mode and automatic standard recognition.

1. Connect the satellite signal cable from your LNB to the "LNB IN" port on the BT05 unit.

2. Ensure the BT05 is connected to your mobile device via Bluetooth and the "V8 FINDER" app is open.
3. Within the app, select the desired satellite from the available list.
4. Adjust your satellite dish alignment while observing the signal quality and strength readings on the app interface. The app provides real-time monitoring and debugging information.
5. The BT05 supports DiSEqC 1.0, 13/18V DC @ 300mA MAX, and 0/22KHz for full control of the LNB and satellite antenna.
6. The device features fast channel blind scan for RF frequency and symbol rate acquisition, and a high-performance equalizer to cancel front-end introduced echo.

6.2. LNB Protection

The BT05 includes LNB short circuit prompt and overload protection to prevent damage to the LNB or the device itself.

7. SPECIFICATIONS

Category	Specification
Model	BT05
Flash Memory	32MB Serial Flash
DDR2 Memory	512M Bits
LNB IN Frequency Range	950MHz to 2150MHz (DVB-S/S2)
DiSEqC Support	1.0, 13/18V DC @ 300mA MAX, Overload Protection, 0/22KHz
Demodulation Standards	DVB-S2 CCM (QPSK, 8PSK, 16APSK, 32APSK), Legacy DVB-S (QPSK)
Symbol Rates	1 to 60 Mbaud
Battery Type	18650 Lithium Battery 3.7V 2200mAh 8.14Wh
Battery Life (Normal Use)	Approximately 2 hours
Charging Time	Approximately 2 hours (with original 5V/2A adapter)
Charging Input	DC 5V 2A
Product Dimensions	105 x 50 x 18 MM (4.13 x 1.97 x 0.71 inches)
Unit Weight	0.2 Kg (0.44 lbs)
Operating Temperature	0°C to +45°C
Storage Temperature	-10°C to +60°C
Humidity	20-90% non-condensed

8. TROUBLESHOOTING

- **Device not powering on:**
Ensure the battery is charged. Connect the device to the power adapter and check if the red charging LED illuminates. If not, try a different charging cable or adapter. Verify the power switch is in the "ON" position.
- **Bluetooth connection issues:**

Make sure Bluetooth is enabled on your mobile device. Restart both the BT05 unit and your mobile device. Ensure the "V8 FINDER" app is installed and updated. Try unpairing and re-pairing the device in your phone's Bluetooth settings if necessary. The blue LED on the BT05 should be solid when connected.

- **No signal reading in the app:**

Check the physical connection of the satellite signal cable to the "LNB IN" port. Ensure the LNB is powered and functioning correctly. Verify that the correct satellite is selected in the "V8 FINDER" app. Check for LNB short circuit warnings on the device or app.

- **Inaccurate signal readings:**

Ensure there are no obstructions between the satellite dish and the satellite. Verify that the LNB is correctly positioned and tightened. Environmental factors like heavy rain or snow can affect signal quality temporarily.

- **Green LED flickering:**

This indicates low battery power. Recharge the device immediately.

9. MAINTENANCE

- Keep the device dry. Moisture can damage electronic components.
- Clean the device with a soft, dry cloth. Do not use harsh chemicals or abrasive cleaners.
- Store the device in a cool, dry place away from direct sunlight and extreme temperatures.
- Avoid dropping or subjecting the device to strong impacts.
- Charge the battery regularly, even if not in use, to maintain battery health. If storing for extended periods, charge to about 50% and recharge every few months.

10. WARRANTY AND SUPPORT

For technical support, product information, or warranty inquiries, please visit the official GTmedia website or contact your retailer.

Official Technical Support Website: www.freesat.cn

Note: The manufacturer reserves the right to change the design and specifications without prior notice.

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Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question

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