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› [EBTOOLS](#) /

› [EBTOOLS T20 4K Dash Cam User Manual](#)

## EBTOOLS T20

# EBTOOLS T20 4K Dash Cam User Manual

Model: T20

Brand: EBTOOLS

## 1. INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of your EBTOOLS T20 4K Dash Cam. Please read this manual thoroughly before using the device to ensure proper functionality and safety.

### Package Contents:

- Dash Cam (Main Unit)
- Charging Line (Type-C)
- Backup Camera with Line
- Car Charger with Line
- Hook
- Screw Pack
- White Adhesive
- User Manual



**Figure 1.1:** Included components of the EBTOOLS T20 Dash Cam package. This image displays the main dash cam unit, charging cable, backup camera, car charger, mounting hook, screw pack, and adhesive pad.

## 2. SPECIFICATIONS

Feature	Description
Processor	Allwinner V535, DDR32GB
Wireless Module	2.4/5GHz
Bluetooth	BT5.0 Support
FM Transmitter	Supports original car audio output
Screen Size	7 inches
Screen Resolution	1024 x 600
Power Supply	Type-C, Car Charger, Line (standard car charger)
Storage	Memory card (up to 256GB, C10 U1 recommended, not included)

Cameras	Dual external AHD camera (5V)
Battery	Built-in 500mAh lithium battery
Special Features	Multi-language support, Parking Monitoring, Mobile App Control, G-Sensor Collision Locking, Intelligent Voice Control, Carplay, Android Auto, Automatic App Reconnection.

### 3. SETUP AND INSTALLATION

#### 3.1 Main Unit Installation

1. Select a suitable location on your dashboard or windshield that does not obstruct your view or interfere with airbags.
2. Clean the mounting surface thoroughly.
3. Attach the dash cam to the chosen location using the provided adhesive mount or suction cup mount (if included). Ensure it is securely fastened.



**Figure 3.1:** The EBTOOLS T20 Dash Cam mounted on a vehicle dashboard, shown from multiple perspectives to illustrate its placement and screen orientation.

#### 3.2 Power Connection

1. Connect the Type-C charging line to the dash cam.
2. Plug the car charger into your vehicle's 12V power outlet (cigarette lighter socket).
3. Route the cable neatly to avoid interference with driving controls.

### 3.3 Backup Camera Installation (Optional)

1. Mount the backup camera at the rear of your vehicle, typically above the license plate or on the rear bumper.
2. Route the backup camera cable to the main dash cam unit. Ensure the cable is securely tucked away and protected from external elements.
3. Connect the backup camera cable to the designated input port on the main dash cam unit.



**Figure 3.2:** Display of the reverse image function on the dash cam screen, featuring dynamic parking guidelines to assist with vehicle maneuvering in reverse.

### 3.4 Memory Card Insertion

1. Ensure the dash cam is powered off.
2. Insert a compatible memory card (up to 256GB, C10 U1 recommended) into the designated slot.
3. Format the memory card through the dash cam's settings menu upon first use to ensure optimal

performance.

## 4. OPERATING INSTRUCTIONS

### 4.1 Powering On/Off

The dash cam will automatically power on when your vehicle starts and power off when the ignition is turned off (if connected to a switched power source).

### 4.2 Main Interface Overview



**Figure 4.1:** The main user interface of the EBTOOLS T20 Dash Cam, featuring a 7-inch screen with intuitive icons for various functions such as phone connectivity, Wi-Fi, camera recording, and system settings.

### 4.3 Recording Modes

- **Loop Recording:** The dash cam continuously records video in segments. When the memory card is full, the oldest files are overwritten.
- **G-Sensor Collision Locking:** In the event of a sudden impact or collision, the G-sensor will automatically lock the current video segment to prevent it from being overwritten.
- **Parking Monitoring:** When enabled, the dash cam will automatically start recording if it detects motion or impact while the vehicle is parked. This feature requires a continuous power supply (hardwire kit, sold separately, may be required for extended parking monitoring).

### 4.4 Connectivity Features

#### 4.4.1 Carplay / Android Auto

The dash cam supports both Carplay (for iOS devices) and Android Auto (for Android devices). Connect your smartphone via Bluetooth or USB to access navigation, music, calls, and other compatible apps directly on the dash cam screen.



Figure 4.2: The Carplay interface displayed on the EBTOOLS T20 Dash Cam screen, illustrating access to common smartphone applications like phone, music, and navigation.

#### 4.4.2 Mobile App Control (Roadcam App)

Download the Roadcam app on your smartphone to control the dash cam, view live footage, download recorded videos, and adjust settings wirelessly. The app supports independent and automatic back connection.

#### 4.4.3 FM Transmission

Transmit audio from the dash cam to your vehicle's original car audio system via FM radio. Adjust the FM frequency on the dash cam and tune your car radio to the same frequency.

## Reverse image

Clear auxiliary line for reversing image, automatically switch reversing image when reversing



Figure 4.3: Illustration of the FM signal transmission feature, where the dash cam's audio is broadcast to the vehicle's FM radio, allowing playback through the car's speakers.

### 4.4.4 AUX Audio Output

For a wired audio connection, use an AUX cable to connect the dash cam to your car's AUX input. This provides a direct audio signal to your car's sound system.

# AUX audio output



Figure 4.4: Connection diagram for AUX audio output, detailing how to link the dash cam to a car's audio system using an AUX cable for direct sound transmission.

## 4.5 Intelligent Voice Control

The dash cam supports intelligent voice commands for hands-free operation of certain functions. Refer to the on-screen prompts or app for available commands.

## 5. MAINTENANCE

- **Cleaning:** Use a soft, dry cloth to clean the dash cam screen and lens. Avoid abrasive cleaners or solvents.
- **Memory Card:** Regularly format the memory card (e.g., once a month) to maintain optimal recording performance and prevent data corruption. Back up important files before formatting.
- **Firmware Updates:** Check the manufacturer's website or the Roadcam app for available firmware updates to ensure your device has the latest features and improvements.
- **Temperature:** Avoid exposing the dash cam to extreme temperatures for prolonged periods, as this can affect battery life and device performance.

## 6. TROUBLESHOOTING

#### **Dash Cam not powering on:**

- Ensure the car charger is properly connected to both the dash cam and the vehicle's power outlet.
- Check if the vehicle's 12V power outlet is functioning correctly.
- Verify the Type-C cable is securely connected.

#### **Recording issues (e.g., freezing, skipped frames):**

- Format the memory card. A corrupted card can cause recording problems.
- Ensure you are using a high-speed memory card (Class 10, U1 or higher).
- Try a different memory card to rule out card malfunction.

#### **Poor image quality:**

- Clean the camera lenses with a soft cloth.
- Ensure the protective film has been removed from the lenses.
- Check settings for video resolution and WDR (Wide Dynamic Range) to ensure they are configured optimally.

#### **Carplay/Android Auto not connecting:**

- Ensure Bluetooth is enabled on both the dash cam and your smartphone.
- Try reconnecting your phone via USB cable.
- Restart both the dash cam and your smartphone.

#### **FM transmission static/interference:**

- Adjust the FM frequency on the dash cam to an unused frequency in your area.
- Ensure your car radio is tuned to the exact same frequency.
- Minimize other electronic devices that might cause interference.

## **7. WARRANTY AND SUPPORT**

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For warranty information and technical support, please refer to the official EBTOOLS website or contact their customer service. Keep your purchase receipt as proof of purchase.

**Manufacturer:** EBTOOLS

**Model Number:** T20

**ASIN:** B0CLH3T8TX

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