XRC TECH S18

XRC TECH S18 Car Rearview Mirror Dash Camera User Manual

Model: S18

Introduction

Thank you for choosing the XRC TECH S18 Car Rearview Mirror Dash Camera. This device is designed to enhance your driving safety and provide reliable recording of your journeys. It features dual 4K front and 1080P rear cameras, an 11.26-inch touch screen, Wi-Fi connectivity, GPS logging, and advanced driver-assistance systems (ADAS) including Blind Spot Detection (BSD).
Please read this manual thoroughly before installation and operation to ensure proper use and optimal performance of your device. Keep this manual for future reference.

Package Contents

Verify that all items are present in your package:

- XRC TECH S18 Car Rearview Mirror Dash Camera
- Rear Camera
- 6m Rear Camera Cable
- GPS Antenna
- Car Charger (Power Input: DC5V/2.5A)
- Mounting Straps/Bands
- User Manual (this document)

Note: A Class 10 or higher Micro SD card (up to 128GB) is required for recording and is not included in the package.

Product Overview

The XRC TECH S18 integrates a high-resolution dash camera into a rearview mirror, offering a discreet and functional solution for vehicle recording and driver assistance.

Double recording 4K+1080P

ADAS+BSD | GPS | 11．26" IPS



11.26" full screen

ADAS

BSD

WIFI

4K+1080P

Night Vision

Time-lapse video

128G

Max 128G

H.265

Figure 1: Overview of XRC TECH S18 features including dual recording, ADAS, BSD, GPS, and touch screen.

Key Features:

- **Dual Camera Recording:** Front camera records in 4K (3840*2160P) at 30fps with a 155-degree viewing angle. Rear camera records in 1080P (1920*1080P) at 30fps with a 140-degree viewing angle.
- **11.26-inch Touch Screen:** A large, responsive touch screen for easy navigation and video playback.
- **Advanced Driver-Assistance Systems (ADAS):** Includes Lane Departure Warning System (LDWS), Forward Collision Warning System (FCWS), and Front Vehicle Moving Alarm (FVMA) for enhanced safety.
- **Blind Spot Detection (BSD):** Alerts the driver to vehicles in blind spots.
- **Wi-Fi Connectivity:** Connects to your smartphone via an app for live viewing, video playback, and settings management.
- **GPS Logger:** Records driving speed, date, time, and location data.
- **24H Parking Monitor:** Provides continuous surveillance when parked (requires a special conversion adapter, not included).
- **Time-Lapse Function:** Records footage at a lower frame rate to save storage space during parking monitoring (requires a special conversion adapter, not included).
- **G-Sensor:** Automatically locks footage during sudden impacts or collisions.
- **Auto Reverse Parking View:** Displays the rear camera view with parking guidelines when the vehicle is in reverse.



Figure 2: Product dimensions and interface locations.

Setup and Installation

1. Insert Micro SD Card

Before mounting, insert a Class 10 or higher Micro SD card (up to 128GB) into the TF card slot on the side of the dash camera. Ensure the card is inserted correctly until it clicks into place.

2. Mount the Dash Camera

1. Attach the dash camera to your vehicle's existing rearview mirror using the provided mounting straps/bands. Ensure it is securely fastened and does not obstruct your view.
2. Adjust the angle of the front camera lens to capture the road ahead clearly.

3. Install the Rear Camera

1. Mount the rear camera on the rear windshield or near the license plate, ensuring a clear view of the area behind

your vehicle.

2. Connect the rear camera cable to the AV interface on the main dash camera unit. Route the cable neatly along the vehicle's interior trim to avoid interference.

4. Connect GPS Antenna

Connect the external GPS antenna to the GPS interface on the dash camera. Position the antenna in a location with a clear view of the sky, typically on the dashboard, to ensure accurate signal reception.

5. Power Connection

Connect the car charger to the USB interface on the dash camera and plug the other end into your vehicle's 12V power outlet (cigarette lighter socket). The device will automatically power on when the vehicle starts and power off when the engine is turned off.

Operating Instructions

Basic Operation

- **Power On/Off:** The device powers on automatically with vehicle ignition. To manually power on/off, press and hold the power button.
- **Recording:** Once powered on and an SD card is inserted, the device will automatically begin loop recording.
- **Screen On/Off:** Briefly press the power button to turn the screen on or off while recording continues in the background.

Using the Touch Screen



Figure 3: Adjusting the view on the 11.26-inch touch screen.

- **Swipe Up/Down:** On the live view screen, swipe up or down to adjust the vertical viewing angle of the camera.
- **Swipe Left/Right:** Swipe left or right to switch between front camera view, rear camera view, or split-screen view.
- **Tap:** Tap icons on the screen to access menus, settings, or specific functions.

Recording Modes

- **Loop Recording:** Continuously records video in segments (e.g., 1, 3, or 5 minutes). When the SD card is full, the oldest unlocked files are overwritten.
- **Emergency Recording (G-Sensor):** In case of a sudden impact or collision, the G-sensor will trigger and automatically lock the current video segment, preventing it from being overwritten.
- **24H Parking Monitor:** With the optional hardwire kit, the dash camera can monitor your vehicle while parked. It can detect impacts or record time-lapse video.
- **Auto Reverse Parking View:** When the vehicle is shifted into reverse, the screen automatically displays the rear camera view with parking assist lines.

Advanced Features

Wi-Fi Connection



Figure 4: Connecting the dash camera to a smartphone via Wi-Fi.

The dash camera supports Wi-Fi connectivity (802.11ac/b/g/n, 2.4G/5.8G) for seamless integration with your smartphone. Download the dedicated app (compatible with iOS/Android) to:

- View live video feed from both cameras.
- Browse and download recorded videos and photos.
- Adjust device settings.

GPS Logger Function



Figure 5: GPS logger displaying driving data.

With the connected GPS antenna, the dash camera records precise GPS data, including your vehicle's speed, date, time, and geographical coordinates. This information can be viewed during video playback on the device or via the smartphone app.

Blind Spot Detection (BSD)

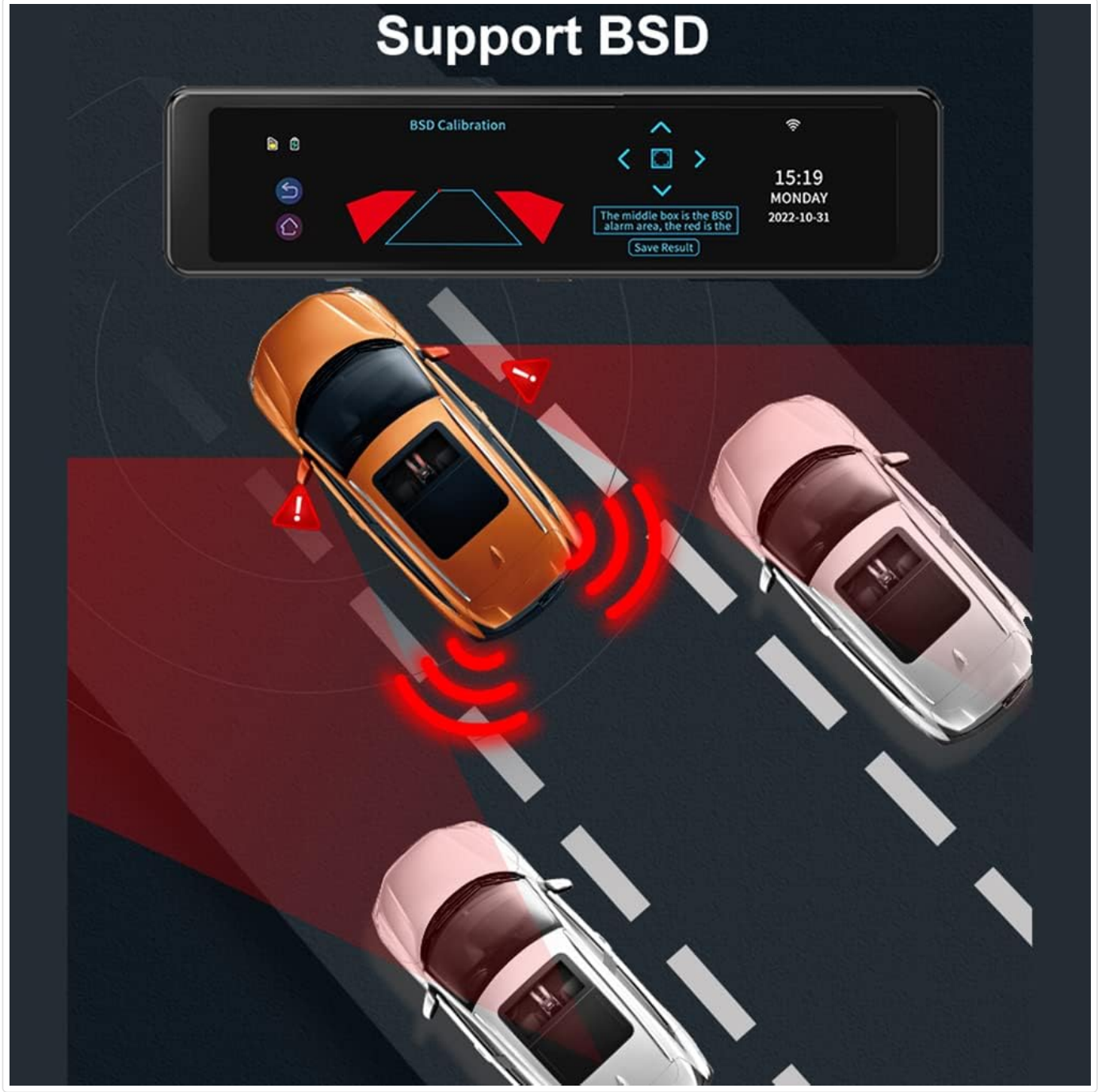


Figure 6: BSD system detecting vehicles in blind spots.

The BSD function monitors your vehicle's blind spots. If another vehicle is detected in a blind spot, the system will provide an audible alert (e.g., "DI DI DI") to warn the driver, assisting in safer lane changes.

Advanced Driving Alarm Systems (ADAS)



Figure 7: ADAS warning systems in action.

The ADAS suite includes:

- **Lane Departure Warning System (LDWS):** Alerts you if your vehicle drifts out of its lane without signaling.
- **Forward Collision Warning System (FCWS):** Warns you of a potential front-end collision with the vehicle ahead.
- **Front Vehicle Moving Alarm (FVMA):** Notifies you when the vehicle in front of you starts moving after a stop (e.g., at a traffic light).

Maintenance

- **Cleaning:** Use a soft, dry cloth to clean the camera lenses and screen. Avoid using abrasive cleaners or solvents.
- **SD Card Management:** Regularly format your Micro SD card (at least once a month) to ensure optimal performance and prevent data corruption. Back up important footage before formatting.
- **Firmware Updates:** Check the manufacturer's website periodically for firmware updates to improve performance and add new features.

- **Temperature:** Avoid exposing the device to extreme temperatures. The operating temperature range is -2°C to +70°C.

Troubleshooting

- **Device not powering on:** Ensure the car charger is properly connected to both the dash camera and the vehicle's power outlet. Check if the vehicle's power outlet is functioning.
- **Recording issues:** Ensure a Class 10 or higher Micro SD card is inserted and formatted. Check if the card is full or corrupted. Try a different SD card.
- **Poor video quality:** Clean the camera lenses. Ensure the protective film has been removed from the lenses. Check video resolution settings.
- **GPS signal not found:** Ensure the GPS antenna is connected and placed in a location with a clear view of the sky. Allow a few minutes for the device to acquire a signal.
- **Wi-Fi connection issues:** Ensure the app is installed correctly on your smartphone. Restart both the dash camera and your phone. Check Wi-Fi settings on both devices.
- **Screen frozen or unresponsive:** Press and hold the power button for 10-15 seconds to force a restart.

Specifications

Feature	Specification
Model Number	S18
Display	11.26" Touch Screen, 1920*440P
Front Camera Resolution	4K (3840*2160) @ 30 fps
Front Camera Viewing Angle	155 degrees
Rear Camera Resolution	1080P (1920*1080) @ 30 fps
Rear Camera Viewing Angle	140 degrees
Video Format	TS H.265
Photo Format	JPEG
Wi-Fi	802.11ac/b/g/n, 2.4G/5.8G
GPS Logger	Supported (External GPS antenna)
ADAS Functions	LDWS, FCWS, FVMA
BSD (Blind Spot Detection)	Supported
G-Sensor	Supported
Parking Monitor	24H (requires conversion adapter)
Time Lapse Function	Supported (requires conversion adapter)
Maximum SD Card Compatibility	128GB Class 10 or higher
Power Input	DC5V/2.5A

Battery	Built-in 450mAh lithium battery
Operating Temperature	-2°C to +70°C
Storage Temperature	-30°C to +80°C
Product Dimensions	29 x 72 x 40 cm (approximate)
Weight	1.2 kg (approximate)

Warranty and Support

XRC TECH products are designed for reliability and performance. For warranty information, please refer to the warranty card included with your purchase or visit the official XRC TECH website.
If you encounter any issues or have questions regarding your XRC TECH S18 dash camera, please contact our customer support team. Contact details can typically be found on our website or on the product packaging.

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

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