

Autel MS Ultra S2

Autel MaxiSYS Ultra S2 OBD2 Scanner User Manual

Model: MS Ultra S2

INTRODUCTION

The Autel MaxiSYS Ultra S2 is an advanced diagnostic system designed for comprehensive vehicle analysis. It features a 13.7-inch anti-glare touchscreen, an octa-core processor, and 512GB of internal storage, operating on Android 13.0 OS. This device integrates multiple diagnostic functions, including a 6-in-1 VCMi2, Topology 3.0 network analysis, EV diagnostic capabilities, and AI-powered Digital Vehicle Inspection (DVI).

PACKAGE CONTENTS

Verify that all items are present in the package:

- Autel MaxiSYS MS Ultra S2 Tablet
- MaxiFlash VCMi2 (Vehicle Communication Measurement Interface)
- Necessary adapters and cables (specific types may vary)
- Power adapter
- User Manual (this document)



Image: The Autel MaxiSYS Ultra S2 diagnostic tablet and its accompanying VCM12 module, presented within a rugged carrying case.

SETUP

1. **Initial Power-On:** Connect the tablet to the power adapter and press the power button. Follow the on-screen instructions to complete the initial setup, including language selection and Wi-Fi configuration.
2. **Software Updates:** Ensure the device is connected to a stable internet connection. Navigate to the 'Update' icon on the main screen to download and install the latest software and vehicle data. Regular updates are crucial for optimal performance and vehicle compatibility.
3. **VCM12 Connection:** The MaxiFlash VCM12 connects wirelessly to the tablet. Ensure the VCM12 is charged or connected to a power source. For vehicle communication, connect the VCM12 to the vehicle's OBD-II port.

ANOTHER LEAP FORWARD

2025 AUTEL MAXISYS ULTRA S2



- Data-Driven Diagnostics with Enhanced PID Analysis *New!*
- Topology Mapping 3.0 *New!*
- AI-powered image analysis *New!*
- Enhanced Oscilloscope *New!*
- Multi-point Digital Vehicle Inspection *New!*
- ECU Programming/Coding
- Improved & Lighter 6-in-1 VCMII2 *New!*
- 48+ Services & Functions *New!*
- 15000+ Vehicle Coverage
- Bi-Directional Control
- Hands-Free Virtual Assistant-MAX *New!*

- Upgraded Hardware *New!*
- D-PDU/J2534/RP1210, DOIP/CAN FD
- Fast Charge *New!*
- Repair Assist
- Secure Gateway Access
- Cloud-Based Data Manager
- OE-TSB (Technical Service Bulletin)
- OE-Level All System Diagnostics
- Auto Scan
- Remote Expert
- Split Screen Multi-Apps Navigation



2.7G 8-Core
Processor



Android 13.0



12GB+512GB



18000 mAh



wifi 6



16MP+16MP



13.7 inch

Image: The main interface of the Autel MaxiSYS Ultra S2 tablet, showing icons for Diagnostics, Service, Remote Expert, DVI, ADAS, Measurement, Data Manager, and Update.

OPERATING INSTRUCTIONS

1. Vehicle Diagnostics

Select 'Diagnostics' from the main menu. The system will automatically identify the vehicle or allow manual selection. This function provides access to:

- **Data-Driven Diagnostics with Enhanced PID Analysis:** Visualize multiple parameters to identify relationships between PIDs and pinpoint system anomalies. Features include live data fusion, parameter grouping, and reference sampling for pre- and post-repair comparison.
- **Topology 3.0 Dynamic Network Analysis:** Provides an OE-style system analysis of multi-speed communication protocol networks. It displays a real-time, color-coded map of all ECU modules, indicating online/offline status and communication faults.

ENHANCED OSCILLOSCOPE

- Launch Scope directly from Live Data;
- New Comprehensive Electrical Vehicle Tests: AC and DC Charging, HV Component, Interlock Loop Signal, Power-On Control, Resolver Sensor, and Thermal Management Sys;
- Added Parasitic Current Draw, Swing Tests.



Image: The Autel MaxiSYS Ultra S2 screen showing data-driven diagnostics with enhanced PID analysis, featuring live data graphs and parameter comparisons.

48+ SERVICES



- SAS Calibration
- Zero Point Calibration
- Fuel Trim Reset
- Cylinder Power Balance
- Crankshaft Sensors Relearn
- VGT Turbo Calibration
- More...

Image: A visual representation of Topology 3.0 dynamic network analysis on the Autel MaxiSYS Ultra S2, showing interconnected vehicle modules and their status.

2. Service Functions

The Ultra S2 provides over 48 service functions for routine maintenance and repairs. Access these by selecting 'Service' from the main menu. Examples include:

- Oil Reset
- Electronic Parking Brake (EPB) Reset
- Battery Management System (BMS) Reset
- Steering Angle Sensor (SAS) Calibration
- Diesel Particulate Filter (DPF) Regeneration
- Injector Coding
- Throttle Adaptation
- ABS Bleeding

48+ SERVICES

Always Up-to-Date! For 99% of Repair Needs.



Image: A collage of icons representing over 48 service functions available on the Autel MaxiSYS Ultra S2, including Oil Reset, EPB Reset, and BMS Reset.

3. ECU Coding & Programming

Utilize the VCM12 for OE-level ECU coding and programming. This allows for:

- Reprogramming or personalizing vehicle modules.
- Activating hidden features.
- Retrofitting new components.
- Programming new blank ECUs.
- Replacing old ECU software and updating existing software.

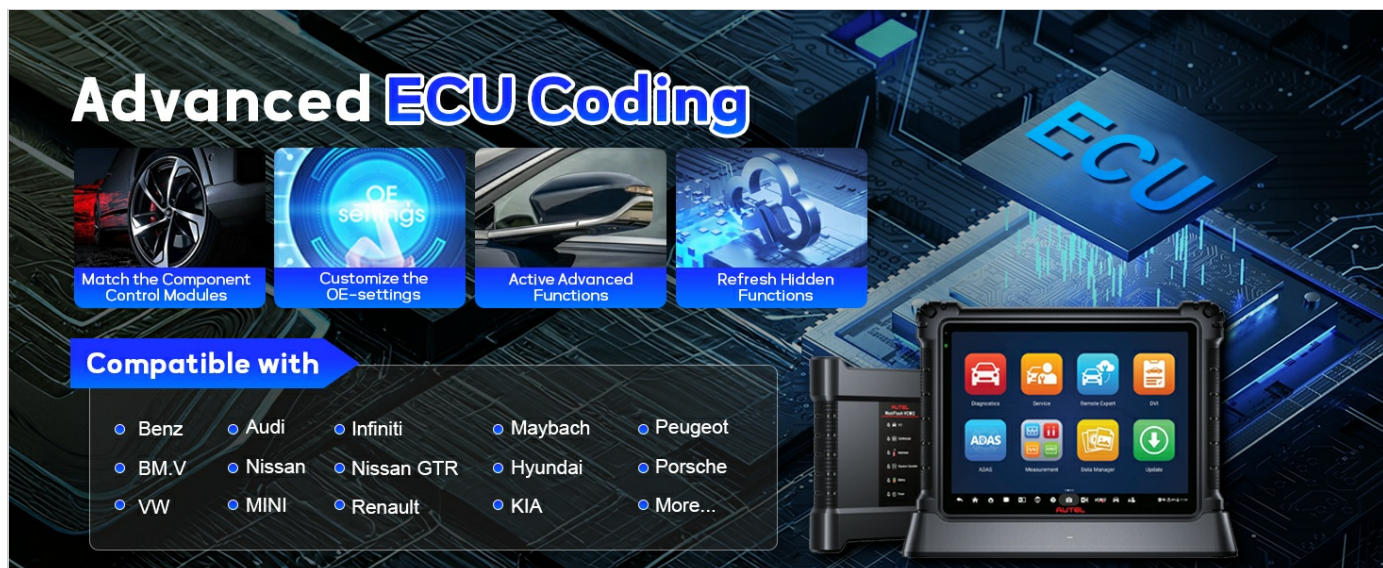


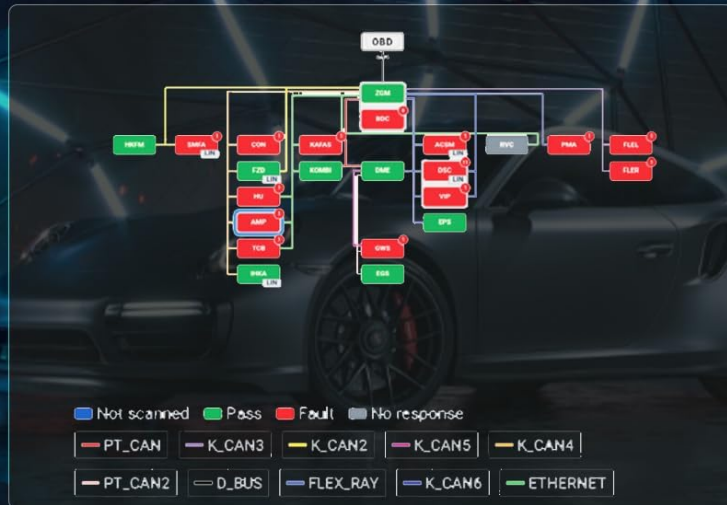
Image: The Autel MaxiSYS Ultra S2 tablet interface showing options for ECU coding and programming, with a visual of an ECU chip.

4. 6-in-1 VCMI2 Functionality

The MaxiFlash VCMI2 integrates six functions:

- **4-Channel Oscilloscope:** For detailed electrical signal analysis. Scope tests can be launched directly from live data streams.
- **Multimeter:** Measures voltage, current, and resistance.
- **Waveform Generator:** Creates various electrical signals for testing.
- **CAN Bus Tester:** Analyzes CAN bus communication.
- **J2534 Pass-Thru Programmer:** Allows for OEM software programming.
- **Built-in Remote Expert Support:** Facilitates remote assistance.

TOPOLOGY 3.0-DYNAMIC NETWORK ANALYSIS



- OE-Style System Analysis of Multi-Speed Communication Protocol Networks.
- Active Module and Network Analysis: Locate and Directly Ping ECUs to Test Signal Quality and Network Integrity.
- At-a-Glance Color-Coded Module Status.

MOTOR TRUSPEED REPAIR

1-YEAR FREE



- Component Measurement
- DTC Analysis
- Repair Tips
- Technical Service Bulletin
- Repair Assist
- Relevant Cases

Image: The Autel MaxiFlash VCMII2 device, accompanied by icons illustrating its six integrated functions: VCI/J2534 Pass-Thru Programmer, Oscilloscope, Multimeter, Waveform Generator, CAN Bus Tester, and Remote Expert Device.

Data-Driven Diagnostics with Enhanced PID Analysis

Data Visualization: Enhanced graphing capability to visualize multiple parameters to identify the relationship between PIDs and pinpoint system anomalies;

Live Data Fusion: record and compare value changes;

Parameter Grouping: Multi-PID selection for analyzing related parameters simultaneously.

Reference Sampling: Record, store and review selected PIDs for pre- and post-repair comparison;

Real-Time, Split-Screen Analysis.

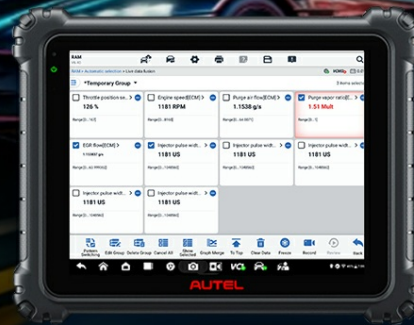


Image: The Autel MaxiSYS Ultra S2 screen showing detailed oscilloscope readings, demonstrating its enhanced functionality for electrical vehicle tests and parasitic current draw analysis.

5. EV-Ready Diagnostics

The Ultra S2 supports diagnostics for electric vehicles, including:

- AC/DC charging analysis.
- High-voltage component inspection.
- Thermal system evaluation.
- Parasitic current detection.

6. AI-Powered Digital Vehicle Inspection (DVI) & Smart Assistant 'MAX'

The DVI feature uses advanced image recognition to detect dents, scratches, and wear, streamlining documentation. The voice-activated virtual assistant 'MAX' allows for hands-free control, guiding users through diagnostics, reports, and navigation.



6-IN-1 VCMi2



VCI/J2534
Pass-Thru
Programmer



Oscilloscope



Multimeter



Waveform
Generator



CAN Bus
Tester



Remote Expert
Device



ENHANCED OSCILLOSCOPE FUNCTIONALITY

- Launch Scope directly from Live Data;
- New Comprehensive Electrical Vehicle Tests: AC and DC Charging, HV Component, Interlock Loop Signal, Power-On Control, Resolver Sensor, and Thermal Management Sys;
- Added Parasitic Current Draw, Swing Tests.



Image: The Autel MaxiSYS Ultra S2 tablet displaying a Digital Vehicle Inspection (DVI) report, alongside an illustration of the 'MAX' virtual assistant with a speech bubble saying "Hey MAX, open service menu".

7. Active Test

Perform active tests to command vehicle components to perform specific functions, such as turning on/off radiator fans, operating windows, or activating fuel heaters, to verify system integrity and functionality.



Image: The Autel MaxiSYS Ultra S2 tablet interface demonstrating active test capabilities, with examples like radiator fan control and window operation.

MAINTENANCE

- **Cleaning:** Use a soft, damp cloth to clean the tablet screen and body. Avoid abrasive cleaners or solvents.
- **Software Updates:** Regularly check for and install software updates to ensure the device has the latest vehicle coverage and features.
- **Battery Care:** To prolong battery life, avoid fully discharging the device frequently. Store the device in a cool, dry place when not in use for extended periods.
- **Storage:** Store the MaxiSYS Ultra S2 and its components in the provided protective case to prevent damage.

TROUBLESHOOTING

If you encounter issues, consider the following:

- **Device Not Powering On:** Ensure the device is fully charged or connected to the power adapter. Check the power button for proper function.
- **No Communication with Vehicle:**
 - Verify the VCMII2 is properly connected to the vehicle's OBD-II port and powered on.
 - Ensure the VCMII2 is wirelessly connected to the tablet.
 - Check vehicle ignition status.
 - Confirm vehicle compatibility with the latest software updates.
- **Software Glitches/Freezing:** Restart the tablet. If the issue persists, perform a software update or contact technical support.
- **Remote Expert Support:** The VCMII2 includes built-in Remote Expert support, allowing for direct assistance from Autel technicians for complex diagnostic challenges.

SPECIFICATIONS

Feature	Detail
Brand	Autel

Model	MaxiSYS Ultra S2
Operating System	Android 13
Processor	2.7GHz Octa-core
Display	13.7-inch Anti-glare Touchscreen
Storage	512GB Internal
VCMI	MaxiFlash VCMI2 (6-in-1)
Connectivity	Wi-Fi 6
Item Weight	30.7 pounds
Package Dimensions	27.2 x 19.4 x 7.6 inches
UPC	792499189310

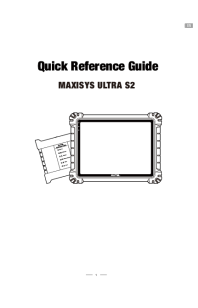
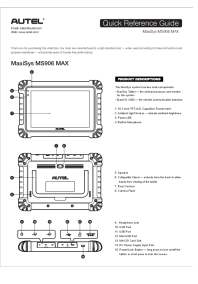
WARRANTY AND SUPPORT



The Autel MaxiSYS Ultra S2 includes a 1-Year Free Motor Truspeed Repair service. For further technical assistance, warranty claims, or detailed support, please contact Autel customer service or visit the official Autel website. Refer to the contact information provided with your product packaging or on the Autel official website.



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Related Documents - MS Ultra S2

	<p>Autel MaxiSys Ultra S2 Quick Reference Guide</p> <p>Explore the Autel MaxiSys Ultra S2 automotive diagnostic system with this quick reference guide. Learn about its components, features, and setup for efficient vehicle diagnostics.</p>
	<p>Autel MaxiSys MS906 MAX Quick Reference Guide Professional Diagnostic Tool</p> <p>Get started quickly with the Autel MaxiSys MS906 MAX professional diagnostic tablet and MaxiVCI V200. This guide covers product features, component identification, and initial setup for vehicle diagnostics.</p>

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