



iCAUR V23

MT-001

Technical Specifications



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Thank You for Choosing MAOT AUDIO

This system is specifically designed for compatible vehicles and professionally tuned to deliver a more complete and refined listening experience.

For optimal performance and long-term system reliability, we recommend installation by an MAOT AUDIO Authorized Dealer in accordance with the specified installation procedures.



TB65-02

6.5-inch Ported Box Subwoofer

Speaker Specifications: 6.5-inch
 Voice Coil Diameter: 38mm
 Diaphragm Material: Polypropylene Polymer Cone
 Magnet Assembly: Ferrite Magnet
 Frequency Response: 40 Hz-150 Hz
 Sensitivity: 90dB (2.83V/1m)
 Nominal Impedance: 4Ω+4Ω
 Recommended Power: 80-180W



MX-8

DSP Intelligent Amplifier(8-Channel)

Max Power: 1200W
 Circuit Design: Class D
 Operating Voltage: 9-16V DC
 Operating Frequency Response: 20 Hz~20 KHz
 Signal-to-Noise Ratio: ≥95dB
 Fuse: 30A
 DSP Function: Built-in DSP
 AppStore: LQ DSP
 Dimensions (L×W×H): 210×150×50mm



TS35-03

Center Speaker

Speaker Configuration: 3.5-inch Mid-range ×2
 + 1-inch Tweeter ×1
 Voice Coil Diameter: 25mm
 Diaphragm Material: Carbon Fiber (Mid-range)
 / Silk Soft Dome (Tweeter)
 Magnet Assembly: Neodymium Magnet
 Frequency Response: 150 Hz~20 KHz
 Sensitivity: 88dB (2.83V/1m)
 Nominal Impedance: 4Ω
 Recommended Power: 30~50W



CM40.7 L/R

Front Hi-Fi Speaker Kit

Speaker Specifications: 4-inch Mid-range + 1-inch Tweeter

Voice Coil Diameter: 25mm (Mid-range) + 25mm (Tweeter)

Diaphragm Material: Carbon Fiber Cone (Mid-range)

/ Silk Soft Dome (Tweeter)

Magnet Assembly: Neodymium Magnet

Frequency Response: 150 Hz~23 KHz

Sensitivity: 90dB (2.83V/1m)

Nominal Impedance: 4Ω

Recommended Power: 40~80W



CW65.9

6.5-inch Front Subwoofer

Speaker Specifications: 6.5-inch

Voice Coil Diameter: 25mm

Diaphragm Material: Carbon Fiber Cone

Magnet Assembly: Neodymium Magnet

Frequency Response: 65 Hz~6 KHz

Sensitivity: 89dB (2.83V/1m)

Nominal Impedance: 4Ω

Recommended Power: 50~150W



CM30.10 R/L

Rear Full-Range Speaker

Speaker Specifications: 2.8-inch Full-Range Speaker

Voice Coil Diameter: 25mm

Diaphragm Material: Carbon Fiber Cone

Magnet Assembly: Neodymium Magnet

Frequency Response: 180 Hz~20 KHz

Sensitivity: 85dB (2.83V/1m)

Nominal Impedance: 4Ω

Recommended Power: 20~40W

iCAUR V23

iV638

6.38-inch Touch LCD Instrument Cluster

Vehicle-Specific Fit | Touch Operation | Day/Night Themes | One-Touch Screen Off

Beyond Sound. Beyond Driving.
Version: V1.0



Thank you for choosing MAOT AUDIO

This product is developed specifically for the iCAUR V23 model. It displays the vehicle's driving status and commonly used information, and supports touch operation, theme switching, and one-touch screen off functions.

To ensure normal operation and long-term stable use of the product, it is recommended that installation be performed by an authorized MAOT AUDIO dealer or a professional with relevant experience.

1. Product Information

Item	Details
Product Name	iCAUR V23 Vehicle-Specific 6.38-inch Touch LCD Instrument Cluster
Product Model	iV638
Compatible Model	iCAUR V23

2. Product Features

Vehicle-Specific Fit | Touch Operation | Day/Night Themes | One-Touch Screen Off

3. Product Specifications

Specification Item	Specification Details
Operating System	RTOS
Screen Size	6.38 inches
Operation Method	Touch operation
System Language	Simplified Chinese, English
Display Themes	Auto theme, Personalized themes
System Upgrade	Type-C interface upgrade
Installation Method	Dedicated wiring harness connection, no wire cutting required
Reference Installation Time	Approximately 20 minutes
Power Supply Method	Vehicle interface power supply

Note: Actual installation time may vary depending on vehicle condition, work environment, and the skill level of the installer.

4. Main Display Information

This product can display the following information based on actual vehicle data and system support:

- Current gear
- Real-time vehicle speed
- Remaining battery level
- Tire pressure information
- Estimated driving range
- Vehicle status alerts
- System themes and interface information

Some display content may vary depending on vehicle configuration, production batch, vehicle software version, or product software version.

5. Main Functions

1. Touch Operation

Interface switching, theme selection, and related function settings can be performed via the touch screen.

2. Day/Night Themes

The system supports day and night display themes, which can be selected according to the actual usage environment.

3. Personalized Themes

Users can select different display themes within the range supported by the system.

4. One-Touch Screen Off

When there is no need to view instrument information, the screen display can be turned off via the screen-off function. After the screen is off, the product may still be powered on or running in the background. Touching the screen again or performing the corresponding operation will restore the display.

5. System Upgrade

This product supports system upgrades via the Type-C interface. Upgrade files and methods should follow the information officially released by MAOT AUDIO.

6. Basic Operation

1. Power On

After the vehicle is powered on, the instrument cluster starts automatically. Startup time may vary slightly depending on vehicle condition and system version.

2. Page Switching

Lightly touch the corresponding area on the screen to enter function pages or switch display content.

3. Theme Settings

Enter the system settings page to select auto theme or personalized themes. After the setting is complete, the system will save the current selection.

4. One-Touch Screen Off

Lightly touch the screen-off function key to turn off the screen display. To restore the display, lightly touch the screen or follow the system prompts.

7. Installation Instructions

Pre-Installation Preparation

- 1.The vehicle is parked in a safe and level location.
- 2.The vehicle is powered off or in a condition that meets installation requirements.
- 3.The product model matches the compatible vehicle model.
- 4.The product, dedicated wiring harness, and related accessories are complete.
- 5.The installer has read this manual and the installation guidelines.

Installation Requirements

- 1.Disassemble the relevant interior components according to the installation guidelines.
- 2.Use the dedicated wiring harness provided with the product to connect to the vehicle interface.
- 3.Ensure all connectors are firmly plugged in.
- 4.Properly secure the product and wiring harness to avoid looseness, friction, or abnormal noise.
- 5.Reinstall the vehicle interior components.
- 6.After the vehicle is powered on, check that the screen display, touch operation, and vehicle information are normal.

Installation Precautions

- Do not cut, modify, or damage the original vehicle wiring harness.
- Do not force connectors in or out.
- After installation is complete, confirm that the vehicle's original functions are working normally.
- If any abnormality occurs, stop using the product immediately and check the connection status.

8. Safety Instructions

1. Do not operate the screen while driving.
2. All setting operations should be performed after the vehicle is safely parked.
3. Do not disassemble, modify, or repair this product yourself.
4. Avoid liquids, metal foreign objects, or cleaning agents from entering the product.
5. Do not use sharp objects to click or scratch the screen.
6. Do not expose the product to open flames, highly corrosive environments, or abnormally high temperatures.

9. Cleaning and Maintenance

1. Before cleaning, turn off the vehicle power.
2. Use a dry, soft, lint-free cloth to wipe the screen.
3. To remove stains, a slightly damp soft cloth may be used to gently wipe.
4. Do not spray cleaning agents directly onto the screen.
5. Do not use gasoline, strong acids, strong alkalis, or abrasive cleaning products.

10. Frequently Asked Questions

- Product does not power on

Please check whether the vehicle is powered on, whether the connectors are properly plugged in, whether the dedicated wiring harness is loose, and whether the product model matches the vehicle.

- Vehicle information is not displayed or displayed abnormally

Please check whether the dedicated wiring harness connection is normal, whether the vehicle software version has changed, whether the product needs to be upgraded, and whether the current vehicle configuration supports the corresponding information.

- Touch does not respond

Please first turn off the vehicle power, wait a moment, and then power on again. If the problem persists, please contact an authorized MAOT AUDIO dealer.

- Theme cannot be switched

Please confirm that the system settings have been saved successfully, and check whether the product software is the applicable version.

11. Software Upgrade Instructions

1. Use only upgrade files officially provided by MAOT AUDIO.
2. Before upgrading, ensure that the vehicle power supply is stable.
3. During the upgrade process, do not unplug the Type-C connected device.
4. During the upgrade process, do not turn off the vehicle power or force-restart the product.
5. After the upgrade is complete, restart the device according to the system prompts.

- Abnormalities caused by the use of non-official upgrade files, incorrect operations, or power interruption during the upgrade process may not be covered under normal warranty.

12. Compatibility and Function Description

This product is developed specifically for the designated vehicle model. Due to differences in vehicle configuration, production batch, vehicle software version, and sales region, some display information, interface content, or function performance may vary. Product functions should be based on the actual operating status after installation and the current software version.

13. Trademark Statement

Vehicle model names, brand names, and related trademarks mentioned in this document belong to their respective rights holders and are used only to describe product compatibility.

14. After-Sales Service

If the product shows any abnormality during installation or use, please stop using it and contact an authorized MAOT AUDIO dealer for inspection and handling. Without authorization, do not disassemble, repair, or alter the product structure yourself.

MAOT AUDIO

Beyond Sound. Beyond Driving.

MAOT International Limited Warranty & After-Sales Service Policy

Applicable Markets: International Markets Outside Mainland China

1. Scope

This policy applies to MAOT automotive audio and in-vehicle electronic products sold in markets outside Mainland China through MAOT or MAOT-authorized distributors, dealers, retailers, and installation service providers, including but not limited to:

- DSP amplifiers
- Automotive amplifiers
- Automotive speakers
- Subwoofer systems
- Center speakers
- In-vehicle displays
- Digital instrument displays
- Other MAOT automotive electronic products

2. Commercial Warranty Period

Unless otherwise required by mandatory laws applicable in the country or region of sale, MAOT products are covered by a 12-month Limited Commercial Warranty from the date of purchase by the end consumer.

During the commercial warranty period, if a product, under normal installation and use, is inspected and confirmed by MAOT or an MAOT-authorized service provider to have a defect in materials, workmanship, or product quality, MAOT will provide repair, replacement, or other appropriate after-sales service in accordance with this policy.

This Commercial Warranty is provided in addition to the consumer's statutory rights. It does not replace, restrict, or exclude any statutory rights or remedies available to consumers under the applicable laws of the country or region of sale.

Where mandatory local laws provide consumers with greater protection, a longer protection period, or additional remedies, such mandatory local laws shall prevail.

3. Proof of Purchase and Product Registration

When requesting Commercial Warranty service, consumers may be required to provide one or more of the following reasonable forms of evidence:

- Original sales invoice or proof of purchase;
- Installation record issued by an authorized dealer or installation service provider;
- Official electronic warranty registration record;
- Product serial number (SN);
- Other documentation reasonably demonstrating the date and place of purchase.

Where permitted by applicable local law, if valid proof of purchase cannot be provided, MAOT or the authorized local distributor may determine Commercial Warranty eligibility and the applicable warranty start date based on the product serial number (SN), manufacturing records, shipment records, or other verifiable information.

MAOT-authorized distributors, dealers, and installation service providers should promptly register the product serial number, installation date, vehicle information, and installation service provider information after installation to facilitate product traceability and after-sales service.

4. Commercial Warranty Service

During the applicable Commercial Warranty period, if a product is inspected and confirmed to have a defect in materials, workmanship, or product quality covered by this policy, MAOT or an MAOT-authorized service provider may, depending on the circumstances, provide one or more of the following remedies:

- 1.Repair the defective product;
- 2.Replace the defective product or component;
- 3.Replace the defective product or component with an equivalent product or component of comparable performance and reliability;
- 4.Provide any other remedy required by applicable law in the country or region of sale.

Where permitted by applicable local law, products or components used for repair or replacement may be new or equivalent to new in performance and reliability.

Where applicable local law provides consumers with greater rights to repair, replacement, refund, or other statutory remedies, such statutory rights shall not be limited by this section.

5. Exclusions from Free Commercial Warranty Coverage

To the extent permitted by applicable local law, the MAOT Commercial Warranty generally does not cover product damage or failure resulting from:

- Normal wear and tear arising from reasonable use;
- Traffic accidents, collisions, impacts, dropping, crushing, fire, flooding, lightning, natural disasters, or other external causes;
- Improper installation, removal, maintenance, storage, or use;
- Installation not performed in accordance with MAOT installation specifications or technical requirements;
- Vehicle wiring faults, abnormal power supply, short circuits, reverse polarity, abnormal voltage, or other vehicle electrical system issues;

- Unauthorized disassembly, repair, modification, alteration, or replacement of internal product components;
- Incompatible third-party products, accessories, wiring harnesses, software, or other modifications where such items directly caused the failure or damage;
- Vehicle modifications or third-party installation work that directly caused the failure or damage;
- Removal, alteration, damage, or illegibility of the product serial number (SN) or identification label where this prevents reasonable verification of warranty eligibility;
- Improper use beyond the product's intended purpose or technical specifications;
- Deterioration or damage resulting from improper long-term storage or environmental conditions outside the product's specified requirements.

The above exclusions apply only to the extent permitted by applicable local law and where the excluded event is reasonably related to the claimed product defect or damage.

6. Service Outside the Commercial Warranty Period

For products outside the MAOT Commercial Warranty period, or for products with damage not covered by the free Commercial Warranty, MAOT or an MAOT-authorized service provider may offer paid repair services where technically feasible and subject to the availability of replacement parts and service capabilities.

Repair charges, replacement parts, transportation costs, labor charges, taxes, and other related costs may be disclosed to the consumer or quoted as appropriate.

The expiration of the MAOT Commercial Warranty period does not affect any statutory rights that the consumer may continue to have under mandatory local laws.

7. Repair Time

Actual repair times may vary depending on the country or region, product type, nature of the fault, availability of replacement parts, international transportation, customs clearance, and local service capabilities.

MAOT and its authorized service providers will use reasonable efforts to complete inspection and repair services within a reasonable period.

Unless otherwise required by mandatory applicable law, no uniform fixed repair period is guaranteed where repair time is affected by replacement part availability, international transportation, force majeure, or other circumstances beyond reasonable control.

8. Commercial Warranty After Repair or Replacement

Unless applicable local law provides greater protection, repaired or replaced components will be covered by a 90-day Commercial Warranty from the date of completion of the repair or replacement, or for the remainder of the original Commercial Warranty period, whichever is longer.

Repair or replacement of a product does not affect any statutory guarantees or consumer rights available under applicable local law.

9. Discontinued Products and Replacement Parts

For discontinued products, MAOT will make reasonable efforts to provide repair and replacement-part support for a reasonable period, subject to parts availability, technical feasibility, and applicable local law.

If the original product model or relevant core components have been discontinued or are no longer available, MAOT or an MAOT-authorized service provider may, depending on the circumstances, offer an equivalent replacement product, equivalent replacement component, or another reasonable solution.

Where the applicable laws of the country or region of sale impose mandatory requirements concerning repair facilities, spare-part availability, product durability, or other after-sales obligations, such requirements shall apply.

10. International After-Sales Service

As a general principle, consumers should request after-sales service in the country or region where the product was originally purchased.

Consumers should first contact the MAOT-authorized distributor, dealer, retailer, installation service provider, or authorized service provider from which the product was purchased.

After-sales procedures, logistics arrangements, service locations, and processing times may vary by country or region.

Products sold through unauthorized channels, sold across regions, parallel imported, or independently transferred by the consumer to another country or region may be subject to different Commercial Warranty service procedures.

Nothing in this section shall be interpreted as excluding, restricting, or reducing any rights that consumers are entitled to under mandatory applicable local law.

11. Shipping, Removal, Reinstallation, and Other Related Costs

Unless otherwise required by applicable local law or expressly agreed by MAOT or the authorized local seller, the MAOT Commercial Warranty primarily covers the defective MAOT product itself.

Costs associated with product removal, reinstallation, vehicle diagnostics, transportation, international shipping, customs clearance, customs duties, taxes, or other incidental service expenses may not be covered under the MAOT free Commercial Warranty.

Where applicable consumer protection laws require the seller, manufacturer, importer, or other responsible party to bear such reasonable costs, the applicable mandatory legal requirements shall prevail.

12. Responsibilities of Authorized Distributors, Dealers, and Installation Service Providers

MAOT-authorized distributors, dealers, retailers, and installation service providers should:

- Sell genuine MAOT products through authorized channels;
- Perform installation in accordance with MAOT technical specifications and installation requirements;
- Establish and properly maintain necessary sales, product, and installation records;
- Assist consumers with after-sales service and warranty claims;
- Perform reasonable preliminary fault diagnosis before submitting a warranty claim;
- Comply with applicable consumer protection and after-sales service laws and regulations in the country or region where the products are sold.

No local distributor, dealer, retailer, or installation service provider may use its own terms or policies to unlawfully exclude or restrict consumers' statutory rights.

13. Limited Commercial Warranty Statement

This policy describes the voluntary Limited Commercial Warranty provided by MAOT to consumers.

This policy does not exclude, restrict, modify, or replace any consumer rights, statutory guarantees, or other statutory remedies available to consumers under mandatory laws applicable in the country, state, province, territory, region, or other jurisdiction where the product is sold.

If any provision of this policy conflicts with mandatory consumer protection laws applicable in the country or region of sale, the applicable mandatory law shall prevail. All remaining provisions of this policy shall continue to apply to the extent permitted by law.

14. Statutory Consumer Rights IMPORTANT NOTICE

Consumers may have statutory rights under applicable national, state, provincial, territorial, regional, or other consumer protection laws in the country or region where the product is purchased and sold.

These statutory consumer rights are independent of, and in addition to, the rights provided under this MAOT Limited Commercial Warranty.

Nothing in this policy is intended to exclude, restrict, or modify any consumer right, statutory guarantee, or statutory remedy that cannot lawfully be excluded, restricted, or modified.

For information regarding specific statutory consumer rights in a particular country or region, consumers should refer to the applicable consumer protection laws or information published by the relevant local consumer protection authority.

15. After-Sales Service Requests

To request after-sales service for a MAOT product, consumers should first contact the MAOT-authorized distributor, dealer, retailer, installation service provider, or authorized service provider in the country or region where the product was originally purchased.

When requesting after-sales service, consumers may be required to provide:

- Product model;
- Product serial number (SN);
- Valid proof of purchase;
- Product installation information;
- Description of the fault;
- Photos, videos, diagnostic data, or other information reasonably necessary to assess the fault.

MAOT

Huizhou Mote Audio Technology Co., Ltd.

International Limited Warranty & After-Sales Service Policy

Applicable to International Markets Outside Mainland China

This Commercial Warranty is subject to applicable consumer protection laws in the country or region where the product is sold.

Where mandatory local laws provide consumers with greater protection, the applicable mandatory local laws shall prevail.



Product Qualification Certificate



Inspector No.: 02

This product has passed inspection and is approved for release.

Huizhou Mote Audio Technology Co., Ltd.



Product Warranty Card



Product Name

Product Model

Product S/N

Distributor

Date of Sale

Defect Description

Warranty Terms

1. Warranty period: 12 months from the date of sale.
2. This warranty only covers manufacturing defects. Damage caused by improper installation, unauthorized modification, water ingress, impact or human error is not covered.
3. Please keep this warranty card together with purchase receipt for warranty service.



Product Name: iCAUR V23 Flagship Audio Premium Audio System Technical Parameters

Manufacturer: Huizhou Mote Audio Technology Co., Ltd.

Tel: +86 752 2856606

Address: Dawei Industrial Area, Ma'an Town, Huizhou, Guangdong, China

URL: www.maotaudio.com

MADE IN CHINA

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