

TRN Caravel

TRN Caravel Hybrid In-Ear Monitor Earphones User Manual

Model: Caravel

INTRODUCTION

Thank you for choosing the TRN Caravel Hybrid In-Ear Monitor Earphones. This manual provides essential information for the proper setup, operation, maintenance, and troubleshooting of your earphones to ensure optimal performance and longevity.

The TRN Caravel is an original product from the TRN brand. Products purchased from an official TRN store are covered by a 12-month warranty for repair support.

KEY FEATURES AND TECHNOLOGY

The TRN Caravel earphones integrate advanced audio technologies for a high-fidelity listening experience.

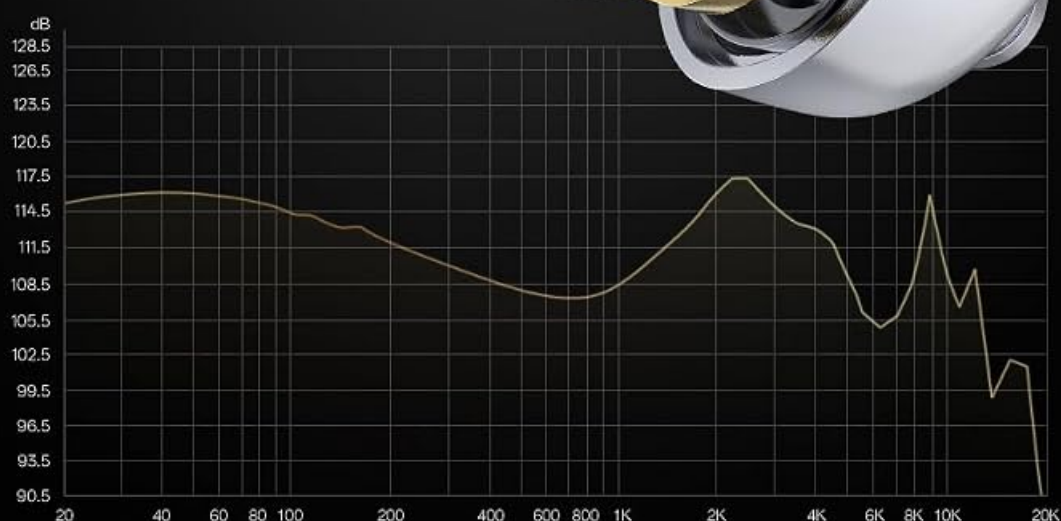
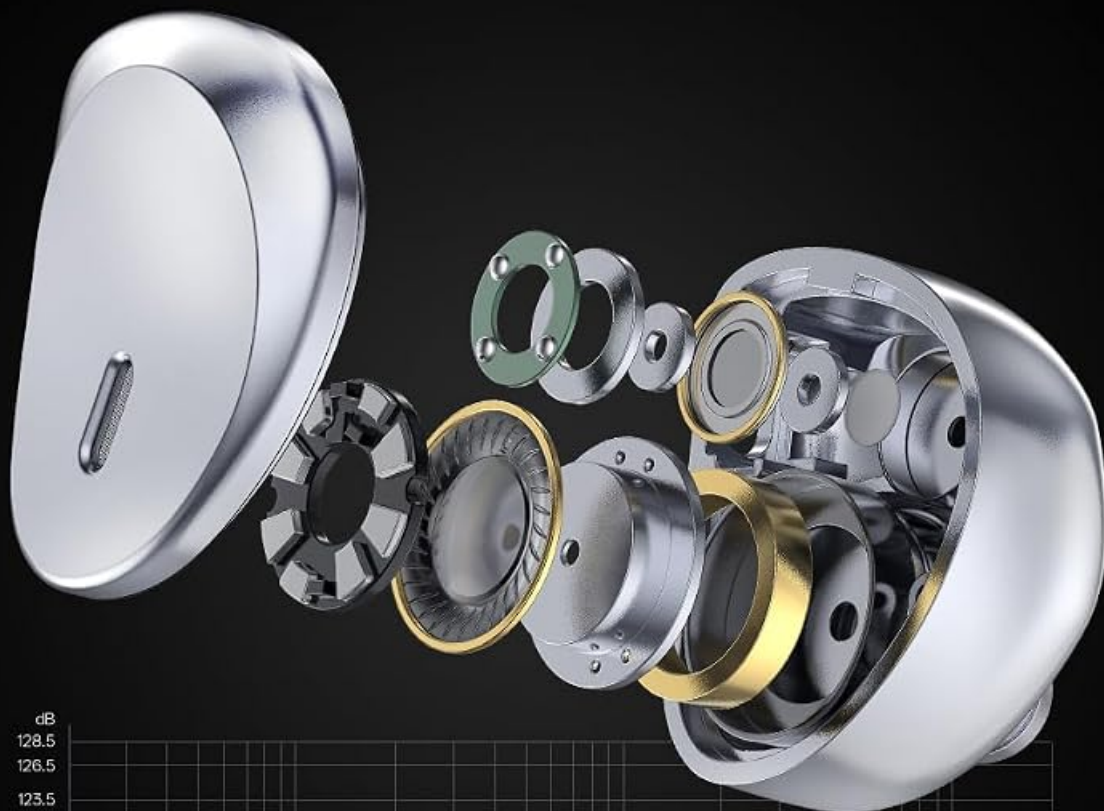
Hybrid Driver System

The Caravel utilizes a dual acoustic matrix analysis system, combining a 10mm glass dome dynamic driver and a 6mm planar diaphragm unit. This design aims to deliver a balanced frequency response and detailed sound reproduction across the audio spectrum.

10mm Dynamic Driver + 6mm Planar  
Driver Dual Acoustic Matrix Analysis

Algorithmically controlling the 10mm glass dome dynamic driver and Planar diaphragm unit to work in harmony, delivering a balanced three-frequency response and an immersive listening experience packed with detail.Optimized for vocal clarity and warmth across the golden frequency range, each band—from bass drum beats to treble overtones—transitions seamlessly like a

band from bass drum beats to treble overtones transitions seamlessly into a “precision-calibrated scale,” delivering natural, uninterrupted sound. The moment you put on these headphones, you're transported to a concert hall with music enveloping you from every direction.



\*The above data is from TRN Acoustic Laboratory Test .actual use may be slightly different

Image: An exploded view illustrating the internal components and dual driver configuration of the TRN Caravel earphones.

### 10mm Dual Magnetic Circuit Glass Diaphragm Dynamic Driver

The 10mm dynamic driver features a dual magnetic circuit and a glass dome diaphragm with a PU surround. The glass diaphragm's rigidity and lightweight properties contribute to low distortion and precise sound reproduction, particularly in the bass frequencies. This design helps suppress unwanted vibrations, resulting in a balanced sound without harshness.

# **10mm Dual Magnetic Circuit Glass Diaphragm Dynamic Driver Redefining Authentic Sound Quality**

10mm dual magnetic circuit dynamic driver + PU surround + glass dome diaphragm, crafted with a triple-tech combination. A flagship-level bass engine delivering both powerful impact and high resolution, featuring an ultra-thin glass diaphragm substrate paired with a high-damping PU surround. The glass's rigidity and lightweight properties, over three times harder than metal. Effectively suppresses segmented vibration, keeping distortion low across the entire frequency range. Compared to traditional electromagnetic circuits, the dual magnetic circuit delivers stronger magnetic field intensity and more precise diaphragm control. Optimizes diaphragm vibration range and speed, making the airy texture in music clearly audible.

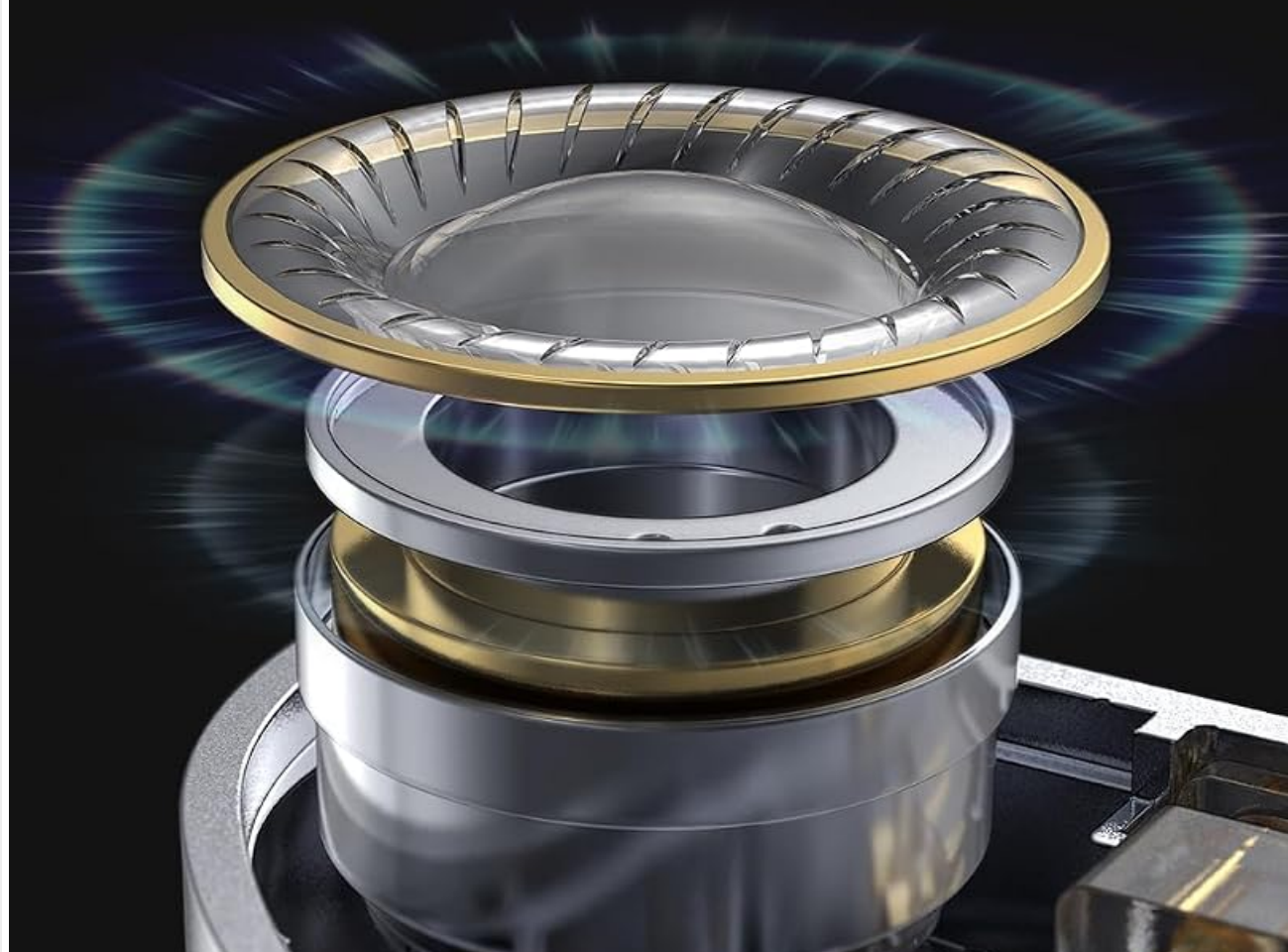




Image: A detailed view of the 10mm dual magnetic circuit dynamic driver with its glass diaphragm.

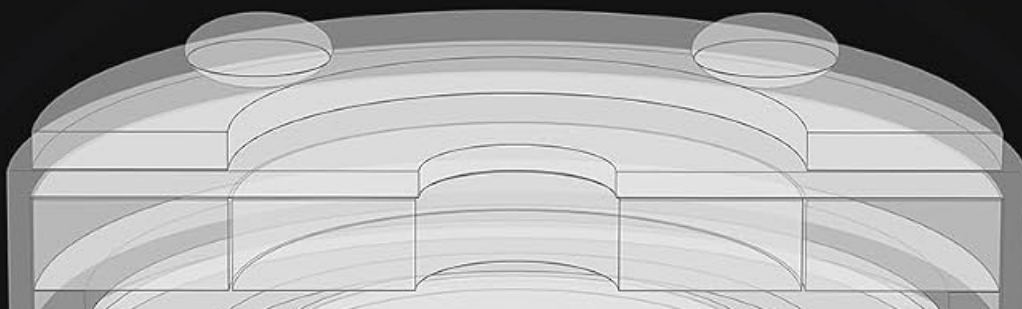
## 6mm Planar Magnetic Driver

The 6mm planar magnetic driver is specifically designed for accurate reproduction of mid-to-high frequencies. This driver type offers uniform force distribution, contributing to a wide soundstage, high resolution, and detailed tonal quality.

# All-new 6mm planar diaphragm

## A small size hides a vast universe

Featuring a brand-new 6mm planar diaphragm as the acoustic core for mid-to-high frequencies, this headphone employs precision engineering to redefine the listening experience. Its unique planar vibration method breaks through the limitations of traditional diaphragms. Integrating the uniform force distribution advantage of planar units with their acoustic potential, it infuses portable audio devices with flagship-level sound quality delivering precise coverage across different frequency bands. Through coordinated vibration, it enhances overall soundstage width and detail density delivering exceptional performance with a wide soundstage, high resolution and refined tonal quality. It excels particularly at rendering the rich texture of string instruments, the emotional warmth of vocals, and the immersive atmosphere of spatial audio, creating an experience as if you were seated in a concert hall.



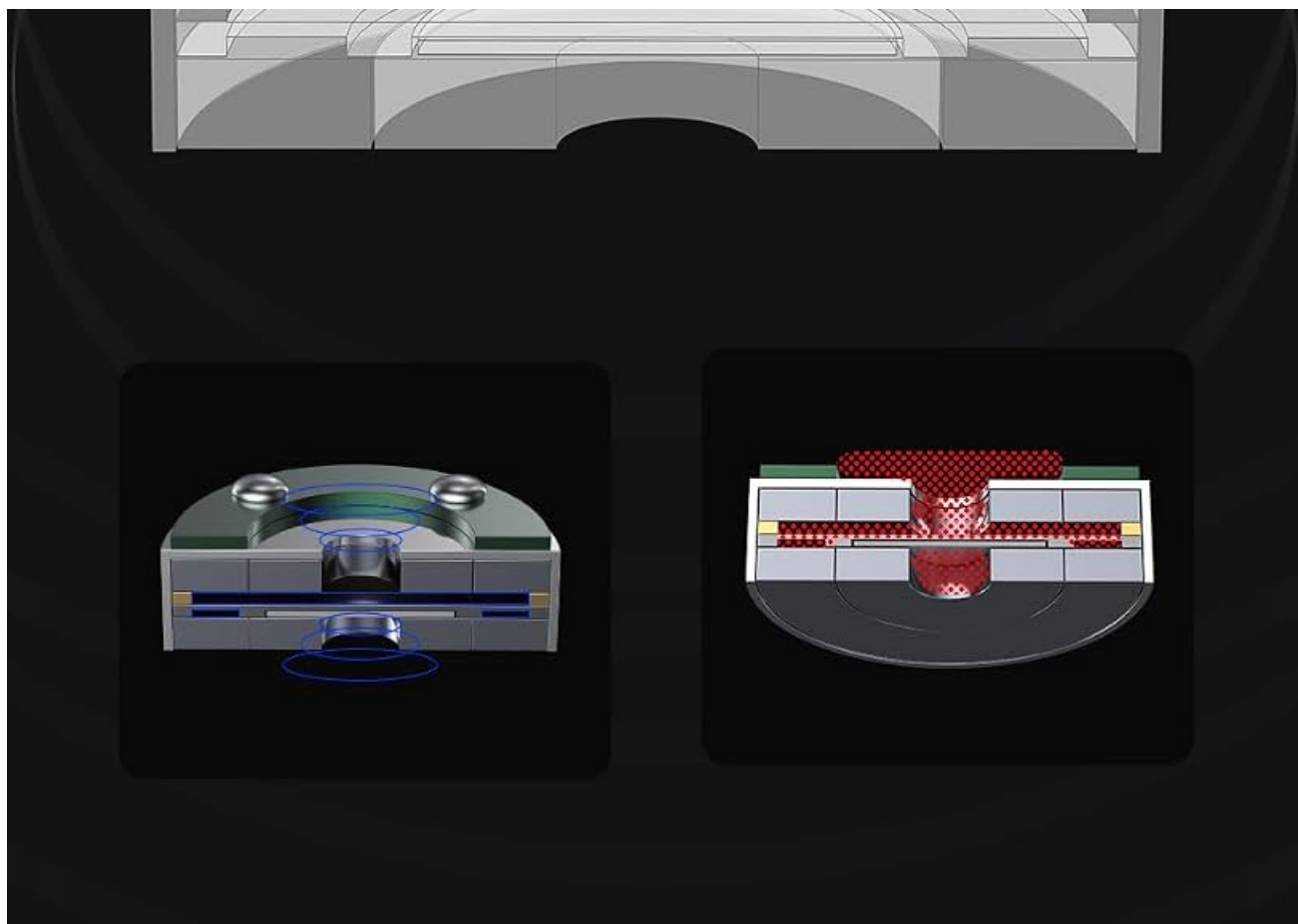


Image: A diagram illustrating the structure of the 6mm planar diaphragm, highlighting its compact size.

### Professional DAC Digital Decoding Chip (Type-C Version)

The optional Type-C plug features a built-in high-performance professional DAC (Digital-to-Analog Converter) digital decoding chip. This DAC enhances audio quality by processing digital signals with greater precision, delivering a richer and more vivid sound experience compared to standard analog connections.

## SETUP

### 1. Attaching the Cable

The TRN Caravel uses a 2-pin detachable cable. Identify the left (L) and right (R) earpieces and cable connectors. Align the pins on the cable with the sockets on the earpieces and gently push until they are securely connected. Ensure the cable is oriented correctly to avoid damage.

**Glass diaphragm resolution pushed  
to the limit Every detail rendered  
with pinpoint precision**

## with pinpoint precision

The high rigidity of glass material fundamentally suppresses segmented vibrations in the diaphragm, eliminating the “harshness” often associated with metal diaphragms. The glass diaphragm extends smoothly and with restraint, avoiding unnecessary noise interference for perfectly balanced sound. It delivers an expansive soundstage where instruments are clearly positioned front-to-back and left-to-right. When listening to symphony orchestras, distinct layers of different instrumental sections become palpable, enhancing immersion with bright, transparent timbres. Prolonged listening remains fatigue-free as every sonic nuance is precisely rendered—as if removing filters to reveal the recording's authentic character.



Image: TRN Caravel earphones connected to the 2-pin detachable cable, illustrating the connection point.

## 2. Selecting and Installing Ear Tips

The package includes 12 pairs of ear tips in various styles and sizes (S/M/L) to ensure a comfortable fit and optimal sound isolation. Experiment with different ear tip sizes and materials to find the best fit for your ears. A proper seal is crucial for bass response and overall sound quality.

- Gently remove the pre-installed ear tips by pulling them off the nozzle.
- Select your preferred ear tip size and material.
- Push the new ear tip onto the earphone nozzle until it is firmly seated.

## Premium Configuration Practical and Extensive Ecosystem Accessories

4-strand copper-silver hybrid cable, Earphone storage pouch, 3.5mm + 4.4mm Type-C connectors Includes 12 pairs of ear tips in various styles: Custom fan-shaped silicone tips\*3 (S/M/L), black-red translucent silicone tips\*3 (S/M/L), white soft silicone tips\*3 (S/M/L), gray memory foam earmuffs\*3 (S/M/L)





Image: Included accessories for TRN Caravel, showing the variety of ear tips available for customization.

### 3. Attaching the Interchangeable Plug

The TRN Caravel cable features interchangeable plugs (3.5mm, 4.4mm, and Type-C) for compatibility with various devices. To change the plug:

1. Hold the cable connector firmly.
2. Gently pull the currently attached plug straight out. Do not twist.
3. Align the desired plug (3.5mm, 4.4mm, or Type-C) with the cable connector and push it in until it clicks securely into place.

Ensure the plug is fully inserted to prevent intermittent audio or connection issues.

### 4. Wearing the Earphones

The TRN Caravel earphones are designed to be worn with the cable over the ear (ear hook style) for a secure and comfortable fit. This also helps reduce microphonics (cable noise).

- Insert the earpiece into your ear canal.
- Loop the cable over the top of your ear, guiding it downwards behind your ear.
- Adjust the earpiece and cable for a snug and comfortable fit.

## OPERATING INSTRUCTIONS

### 1. Connecting to an Audio Source

Once the cable and desired plug are attached, connect the plug to the appropriate audio output port of your device (e.g., smartphone, digital audio player, computer).

### 2. Volume Control

Adjust the volume directly from your connected audio source. Start with a low volume and gradually increase it to a comfortable listening level to prevent hearing damage.

# MAINTENANCE

## 1. Cleaning the Earphones

- **Earpieces:** Gently wipe the earpieces with a soft, dry, lint-free cloth. Do not use harsh chemicals or abrasive materials.
- **Ear Tips:** Remove ear tips and clean them with a mild soap solution and water. Rinse thoroughly and allow them to dry completely before reattaching.
- **Nozzles:** Use a small, soft brush or a cotton swab to carefully remove any earwax or debris from the earphone nozzles. Ensure no moisture enters the earpiece.

## 2. Cable Care

- Avoid sharp bends or excessive pulling on the cable.
- When disconnecting the cable or plugs, always grasp the connector housing, not the cable itself.
- Store the cable neatly coiled to prevent tangling and damage.

## 3. Storage

When not in use, store your TRN Caravel earphones in the provided storage pouch to protect them from dust, dirt, and physical damage.

# TROUBLESHOOTING

| Problem                                            | Possible Cause                                                                                                                                                                          | Solution                                                                                                                                                                                                                                                                                                                                          |
|----------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| No sound or intermittent sound                     | <ul style="list-style-type: none"><li>• Loose cable connection</li><li>• Incorrect plug attached</li><li>• Audio source volume too low or muted</li><li>• Faulty audio source</li></ul> | <ul style="list-style-type: none"><li>• Ensure 2-pin connectors are fully inserted.</li><li>• Verify the correct interchangeable plug (3.5mm, 4.4mm, or Type-C) is securely attached and compatible with your device.</li><li>• Increase volume on your audio source and check if it's muted.</li><li>• Test with another audio source.</li></ul> |
| Poor sound quality (e.g., weak bass, harsh treble) | <ul style="list-style-type: none"><li>• Improper ear tip seal</li><li>• Ear tips or nozzles are dirty</li><li>• Low-quality audio file</li></ul>                                        | <ul style="list-style-type: none"><li>• Try different ear tip sizes and materials to achieve a better seal.</li><li>• Clean ear tips and earphone nozzles.</li><li>• Try a higher quality audio file or streaming service.</li></ul>                                                                                                              |
| Discomfort or poor fit                             | <ul style="list-style-type: none"><li>• Incorrect ear tip size</li><li>• Improper wearing technique</li></ul>                                                                           | <ul style="list-style-type: none"><li>• Experiment with different ear tip sizes and materials.</li><li>• Adjust the earpiece and cable for a more comfortable and secure fit, ensuring the cable loops over the ear.</li></ul>                                                                                                                    |

# SPECIFICATIONS

# Product Configuration Parameters

|                                                                      |                                         |
|----------------------------------------------------------------------|-----------------------------------------|
| <b>Brand</b><br>TRN                                                  | <b>Product model</b><br>Caravel         |
| <b>Jack type</b><br>3.5/4.4mm/Type C                                 | <b>Wear</b><br>Ear hook                 |
| <b>Transducer type</b><br>Dynamic+PlanarMagnetic<br>Driver Earphones | <b>Frequency response</b><br>10Hz-40khz |
| <b>Sensitivity</b><br>108dB                                          | <b>Impedence</b><br>29Ω                 |
| <b>color</b><br>silver                                               | <b>Cable length</b><br>1.2m±3cm         |

(Actual product specifications may vary, and all features, functionality and other product specifications are subject to change without notice or obligation)



Image: Detailed product configuration parameters for the TRN Caravel earphones, as provided by the manufacturer.

| Feature                 | Detail                                                                                                                                                                                                                                                                                   |
|-------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Brand                   | TRN                                                                                                                                                                                                                                                                                      |
| Model Name              | Caravel                                                                                                                                                                                                                                                                                  |
| Headphone Style         | In-Ear Monitor (IEM)                                                                                                                                                                                                                                                                     |
| Connectivity Technology | Wired                                                                                                                                                                                                                                                                                    |
| Color                   | Silver                                                                                                                                                                                                                                                                                   |
| Jack Type               | Interchangeable 3.5mm, 4.4mm, Type-C                                                                                                                                                                                                                                                     |
| Transducer Type         | Hybrid (10mm Dynamic Driver + 6mm Planar Magnetic Driver)                                                                                                                                                                                                                                |
| Frequency Response      | 10Hz-40kHz                                                                                                                                                                                                                                                                               |
| Sensitivity             | 108dB                                                                                                                                                                                                                                                                                    |
| Impedance               | 29Ω                                                                                                                                                                                                                                                                                      |
| Cable Length            | 1.2m ±3cm                                                                                                                                                                                                                                                                                |
| Origin                  | China                                                                                                                                                                                                                                                                                    |
| Included Accessories    | 4-strand copper-silver hybrid cable, Earphone storage pouch, 3.5mm + 4.4mm + Type-C connectors, 12 pairs of ear tips (custom fan-shaped silicone tips*3 (S/M/L), black-red translucent silicone tips*3 (S/M/L), white soft silicone tips*3 (S/M/L), gray memory foam earmuffs*3 (S/M/L)) |

*Note: Actual product specifications may vary. All features, functionality, and other product specifications are subject to change without notice or obligation.*

## WARRANTY AND SUPPORT

The TRN Caravel earphones come with a **12-month product warranty** (repair support) from the date of purchase when bought from an official TRN store.

If you encounter any issues or have questions regarding your product, please contact the seller or TRN customer support. Provide your purchase details for efficient assistance.

### ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question

and use this page's manual context to help answer it.

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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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