

## Kuntech KT9122

# Kuntech KT9122 Automotive Smoke Leak Detector Instruction Manual

Model: **KT9122** | Brand: **Kuntech**

## 1. INTRODUCTION AND OVERVIEW

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The Kuntech KT9122 Automotive Smoke Leak Detector is a versatile diagnostic tool designed to identify leaks in various vehicle systems. It features a built-in air pump and offers both air and smoke modes for precise leak detection.

### Key Features:

- **Multifunction:** Capable of testing pipe systems, car sealing, fuel tank systems, exhaust systems, and intake systems. Suitable for all cars, motorcycles, light trucks, and boats.
- **Air Mode & Smoke Mode:** Produces fog within 4 seconds for accurate leak identification.
- **Safety Operation:** Uses baby oil or mineral oil to generate harmless smoke. Maximum fume filling should not exceed 30ml per use.
- **Intelligent Protection:** Features overheating protection that automatically powers off the unit at extreme temperatures, ensuring operator and equipment safety.
- **Lightweight and Portable:** Weighs only 2.8kg, making it easy to store and transport.



# WIDE APPLICATION

Figure 1.1: The Kuntech KT9122 Automotive Smoke Leak Detector is suitable for a wide range of vehicles including cars, trucks, motorcycles, and snowmobiles.

## 2. PRODUCT CONTENTS

The Kuntech KT9122 package includes the following components:

**Automotive Smoke Leak Detector**

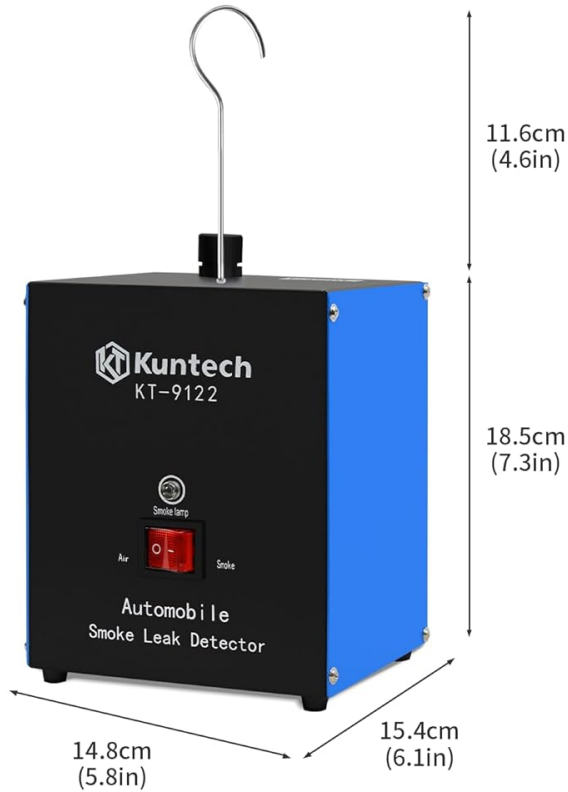
Figure 2.1: Overview of the Kuntech KT9122 Smoke Leak Detector and its included accessories.

- Smoke Machine Unit (KT-9122)
- Discharge Pipe
- Special Power Cable (with alligator clips for 12V DC battery connection)
- Multifunctional Side Leakage Plug
- Universal Adapter
- Adapter Replacement Airbag
- Universal Adapter Clamp
- Special Liquid Bottle (250ml capacity for test oil)
- Hook for hanging the unit

### 3. SPECIFICATIONS

Detailed specifications for the Kuntech KT9122 Automotive Smoke Leak Detector:

# PRODUCT DESCRIPTION



Model	KT-9122
Supply voltage	12V
Output pressure	18psi
Smoke flow rate	20-30L/min
Test oil capacity	250ml
Net weight	2.8kg
Size	14.8*15.4*18.5cm

Figure 3.1: Product dimensions and technical specifications of the KT9122 unit.

Specification	Value
Brand	Kuntech
Model	KT9122
Material	Metal
Item Weight	2.84 Kilograms
Maximum Supply Voltage	12 Volts (DC)
Output Type	Smoke
Response Time	4 seconds
Specific Uses For Product	Smoke Leak Detection
UPC	739411315969

## 4. SAFETY INFORMATION

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Adhere to the following safety guidelines when operating the Kuntech KT9122:

- Use only baby oil or mineral oil as the test fluid. These are designed to produce harmless smoke.
- Do not exceed 30ml of fume oil when filling the unit to prevent overfilling and potential damage.
- The device is equipped with overheating protection. It will automatically power off if the internal temperature becomes too high, safeguarding both the operator and the equipment.
- Ensure proper ventilation when operating the smoke leak detector in enclosed spaces.
- Always connect the power cables correctly (red to positive, black to negative) to avoid electrical damage.

## 5. SETUP

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Follow these steps to set up your Kuntech KT9122 Automotive Smoke Leak Detector:

1. **Install the Hook:** Screw the provided hook into the designated hole on the top of the smoke machine unit. This allows you to hang the unit securely during operation.
2. **Connect Power Cables:** Attach the special power cable to the 'DC 12V' port on the unit. Connect the red alligator clip to the positive (+) terminal of your vehicle's 12V battery and the black alligator clip to the negative (-) terminal. Ensure your vehicle is turned on for power.
3. **Connect Smoke Hose:** Connect the smoke outlet hose to the 'Smoke Outlet' port on the unit.
4. **Fill with Test Oil:** Unscrew the oil cap on the top of the unit. Using the special liquid bottle, carefully pour 10-20ml of baby oil or mineral oil into the fill port. Do not exceed 30ml. Replace the cap securely.

Video 5.1: A Kuntech instructional video demonstrating the setup process, including installing the hook, connecting power, and filling with test oil.

## 6. OPERATING INSTRUCTIONS

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Once the unit is set up, proceed with leak detection:

1. **Power On:** Flip the main switch on the unit to the 'Smoke' position. The 'Smoke lamp' indicator will illuminate.
2. **Smoke Generation:** The unit will begin producing smoke within approximately 4 seconds.
3. **Connect to Vehicle System:** Select the appropriate adapter (e.g., universal adapter, multifunctional side leakage plug) for the system you intend to test (e.g., intake manifold, vacuum lines, EVAP system). Securely connect the adapter to the vehicle's system.
4. **Introduce Smoke:** Insert the smoke hose into the adapter, allowing smoke to fill the system.
5. **Observe for Leaks:** Carefully inspect the entire system for any visible smoke escaping. Smoke indicates a leak point.
6. **Air Mode (Optional):** For systems where smoke might be too dense or for initial pressure checks, switch to 'Air' mode to introduce air without smoke.

Video 6.1: A Kuntech video demonstrating the smoke output and application of the detector for various automotive systems.

# FAST AND STABLE SMOKE FLOW OUTPUT



Automated



Efficient



Quiet



Multifunctional



Accurate



Quick



Safe



Figure 6.1: The device provides fast and stable smoke output, crucial for efficient leak detection.

# POWERFUL MULTIFUNCTIONAL DETECTION

It can detect whether there are air leaks in various systems of your car



EVAP system test



Intake system test



Exhaust system test



Car sealing test



Various pipes fitting test



Fuel tank system test



Figure 6.2: The KT9122 offers powerful multifunctional detection for various vehicle systems.

# HOW TO USE THE MACHINE?



Figure 6.3: Step-by-step visual guide on how to use the Kuntech KT9122 Smoke Leak Detector.

## 7. MAINTENANCE

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Proper maintenance ensures the longevity and optimal performance of your smoke leak detector:

1. **Drain Remaining Oil:** After each use, ensure to drain any remaining test oil from the unit. The 'Oil Drain' port is located on the side of the unit for easy access. This prevents potential damage from inverting the product.
2. **Cleaning:** Wipe down the unit and accessories with a clean, dry cloth after use. Avoid using harsh chemicals that may damage the device.
3. **Storage:** Store the smoke leak detector in a cool, dry place, away from direct sunlight and extreme temperatures.

# ADDED OIL DRAIN FUNCTION

Solve the problem that inverting the product will destroy the product's functionality



Figure 7.1: The added oil drain function simplifies maintenance by allowing easy removal of residual oil without inverting the unit.

## 8. TROUBLESHOOTING

If you encounter issues with your Kuntech KT9122, consider the following:

- **No Smoke Output:**

- Check if the power cables are securely connected to the vehicle's 12V battery and the unit.
- Ensure the unit is switched to 'Smoke' mode.
- Verify that there is sufficient test oil in the reservoir.
- Check for any blockages in the smoke hose or adapters.

- **Weak Smoke Output:**

- Ensure the test oil level is adequate.
- Check all connections for tightness to prevent air leaks within the testing setup.
- Allow the unit a few extra seconds to heat up and generate full smoke.

- **Unit Powers Off Unexpectedly:**

- This may indicate the overheating protection has activated. Allow the unit to cool down before resuming operation.
- Ensure the unit is operating in a well-ventilated area.

## **9. WARRANTY AND SUPPORT**

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