KUOWEIHUD K3

KUOWEIHUD K3 GPS Digital Speedometer User Manual

Model: K3

1. Introduction

The KUOWEIHUD K3 GPS Digital Speedometer is designed to provide accurate speed data and other essential driving information for various vehicles. Utilizing dual-mode GPS+BDS chip technology, it offers high refresh rates and stable signal reception. This manual provides instructions for setup, operation, and maintenance to ensure optimal performance and user experience.

2. Product Features

- **Strong Signal Reception:** Dual-mode GPS+BDS chip technology with a 10 Hz refresh rate for rapid and accurate signal acquisition, supporting up to 32 satellite signals.
- **Three Customizable Interface Styles:** Switch between various display modes including Time/Speed, Ambient Light + Compass, and more to suit driving preferences.
- **Smart Auto-Switching Display:** Automatically transitions between displaying time when parked and speed while driving.
- **Automatic Brightness Adjustment:** Integrated light sensors adjust screen brightness based on ambient light conditions for clear visibility day or night.
- **Universal Compatibility:** Compatible with all cars, motorcycles, and trucks via a standard USB (5V) power port.
- **Durable Construction:** Built from robust PC+ABS material for longevity.

3. Package Contents

Verify that all items are present in the package:

- KUOWEIHUD K3 GPS Digital Speedometer Unit
- 2M USB Cable
- Double-sided Tape (for mounting)
- Instruction Manual

Figure 3.1: Package Contents. The image displays the K3 speedometer unit, a 2-meter USB cable, double-sided tape, and the instruction manual.

4. Setup

1. **Power Connection:** Connect the provided USB cable to the speedometer unit and plug the other end into your vehicle's USB port (5V). The device will power on automatically. Unplugging the cable will turn the device off.
2. **Mounting:** Place the speedometer on a flat, stable surface on your dashboard. Use the provided double-sided tape to secure the unit. Ensure the unit has a clear view of the sky for optimal GPS signal reception.
3. **Initial Satellite Acquisition:** After powering on, the device will begin acquiring satellite signals. This may take a few moments. Once signals are acquired, the speed and other data will be displayed.

Figure 4.1: USB Powered Plug and Play. The image shows the speedometer connected to a car's USB port, indicating its power source.

5. Operating Instructions

5.1 Automatic Display Switching

The speedometer automatically switches its display mode:

- When the vehicle is stationary, it displays the current time.
- When the vehicle is in motion, it displays the current speed.

Figure 5.1: Automatic Switching. The image illustrates the device displaying time when parked and speed when driving.

5.2 Display Modes

The device offers three customizable interface styles. Refer to the instruction leaflet for specific button presses to cycle through these modes:

- Time/Speed, Ambient Light + Compass
- Time/Speed (simplified)
- Speed (with compass)

Figure 5.2: Three Styles of Interfaces. This image shows the three distinct display layouts for time, speed, ambient light, and compass.

5.3 Automatic Brightness Adjustment

The integrated light sensor automatically adjusts the screen brightness to ensure optimal visibility in varying light conditions, from bright daylight to dim night environments.

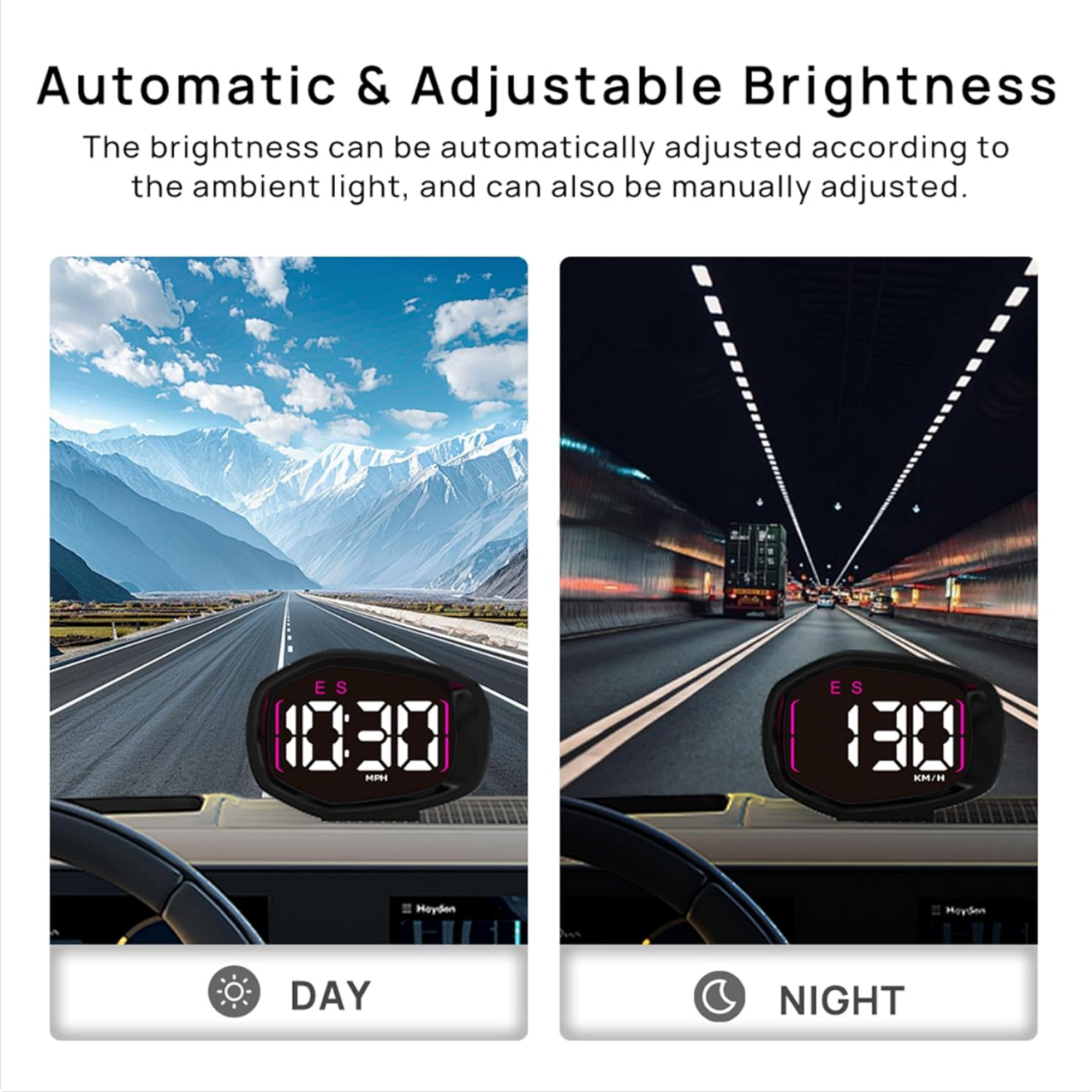

Figure 5.3: Automatic & Adjustable Brightness. The image depicts the speedometer's display clarity during both day and night driving conditions.

5.4 Unit Switching (MPH/KPH)

To switch between Miles Per Hour (MPH) and Kilometers Per Hour (KPH), long-press the right arrow button on the device.

5.5 Advanced Settings (Refer to Instruction Leaflet)

The device includes several programmable functions. Please refer to the detailed instruction leaflet included in your package for specific steps on how to adjust these settings:

- **Function 1:** Set Time Zone.
- **Function 2:** Enable Speed Limit Alarm.
- **Function 3:** Set Automatic or Manual Brightness.
- **Function 4:** Set Speed Correction Factor (for fine-tuning accuracy).
- **Function 5:** Select Display Mode (e.g., auto-show time when stopped, speed when moving).

6. Important Notes and Considerations

- **Signal Reception:** The performance of this product is dependent on GPS signal strength. Metal explosion-proof films on car glass may affect signal reception. For the best experience, use the device in an open environment.
- **Signal Interruption:** In specific environments such as tunnels, underground garages, or during heavy rain/fog, all satellite positioning equipment may experience temporary signal interruptions. This is normal and expected.
- **Speed Accuracy:** A slight margin of error (0.6-1.8 mph/h) is normal for all GPS-based speed tracking devices and is consistent with industry standards.
- **Power Source:** The device requires a continuous USB power supply and does not have an internal battery. If your vehicle's USB port is always on, the speedometer will remain on unless unplugged.

7. Specifications

Model Number	K3
Dimensions (L x W x H)	93.9mm x 33.8mm x 65.8mm (3.7 x 1.33 x 2.59 inches)
Weight	22.68 g (0.05 Pounds)
Material	PC+ABS (Acrylonitrile Butadiene Styrene)
Power Input	USB 5V
Signal Type	GPS+BDS Dual-mode

Figure 7.1: Product Information. This image details the model, size, and material of the speedometer.

Figure 7.2: Minimalist Design. The image highlights the compact size of the speedometer, showing it held in a hand.

Figure 7.3: Product Display. This image provides various views of the speedometer, including its front, back, and side profiles.

8. Troubleshooting

- **No Display/Power:** Ensure the USB cable is securely connected to both the speedometer and a functional 5V USB port in your vehicle. Check if the vehicle's USB port is active.
- **No Speed Reading / Signal Loss:**
  - Ensure the device has a clear view of the sky. Obstructions like metal window films, tunnels, or dense urban areas can interfere with GPS signals.
  - Wait a few minutes for the device to acquire satellite signals, especially after initial power-on or moving to a new location.
  - If two blinking dash or hyphen symbols appear, it indicates insufficient signal reception. Move to an open area.
- **Inaccurate Speed Reading:**
  - Verify that the device has a strong GPS signal.
  - Consider adjusting the speed correction factor (Function 4) if you consistently observe a discrepancy, referring to the detailed instruction leaflet.

- Remember that a slight margin of error (0.6-1.8 mph/h) is inherent in GPS-based speed measurements.

- **Difficulty with Settings:** The programming functions may not be intuitive. Always refer to the instruction leaflet for detailed steps on setting time zone, alarms, and brightness.

9. Maintenance

- **Cleaning:** Use a soft, dry cloth to clean the device. Avoid using abrasive cleaners or solvents that could damage the display or casing.
- **Storage:** When not in use for extended periods, store the speedometer in a cool, dry place away from direct sunlight and extreme temperatures.
- **Cable Care:** Handle the USB cable gently. Avoid sharp bends or excessive pulling that could damage the cable or connectors.

10. Warranty and Support

For warranty information or technical support, please refer to the contact details provided in the original product packaging or contact the manufacturer directly. If you encounter any issues with the product, please reach out to the seller for assistance. They typically respond within 24 hours to provide solutions.