



## I-Meter L110

### *DIGITAL MULTIPLE INDICATOR FOR LAND ROVER DISCOVERY 2nd SERIES 1998-2005*

#### 1) INTRODUCTION

Thank you for choosing a PZR product. The I-meter L110 is a next-generation time/tilt/temperature/voltage indicator specially designed to fit into the original clock housing of your Land Rover Discovery 2nd series 1998-2005. The L110 features a high-brightness TFT IPS color display that displays the following values:

- TIME
- TILT (Roll - Pitch)
- TEMPERATURE
- BATTERY VOLTAGE

The L110 has no buttons; thanks to its touchscreen, you can view the various settings with a simple touch of the display.

The front panel features a USB-C connector for charging a phone or any other USB device.

#### **Technical Specifications:**

- Power supply: 7 to 20 Volts
- Consumption: less than 80mA
- Maximum current delivered on the UCB-C connector: 0.5 Ampere
- Measurable temperature range: -55 - 125°C / -67 - 257°F
- 1.28" 240x240 IPS TFT display with 65K colors
- Capacitive touch screen
- 32-bit 240MHz dual-core processor
- Tilt accuracy: 1 degree
- Temperature accuracy: 1/10 of a degree
- Voltage accuracy: 1/10 of a volt
- Battery Backup to save the time in the event of a power failure
- Multilingual menu (ITALIAN - ENGLISH - FRENCH - GERMAN - SPANISH)
- Date format (day - month - year / month - day - year)
- Time format (12-24 / am-pm)
- Units of measurement (C° - F°)

#### 2) INSTALLATION

I-Meter L110 must be installed in place of the original clock.

There are four plastic tabs holding the unit in place at the top and bottom. The tabs are approximately 1.2 cm from the edge. Using four small spatulas or four old plastic credit cards, release the tabs, inserting them and releasing the original clock.

Disconnect the two wiring harnesses for the clock and the window control.

Remove the window control and reassemble it on the product.

Connect the two RED and BLACK wires of the product to the GREEN and BLACK wires of the clock's 4-pin connector using the two supplied wire taps.

Turn on the ignition and check that the L110 is working properly.

Reassemble the product in its original housing.

#### 3) DISPLAY:

The device can display four screens dedicated to "TIME" - "ROLL - PITCH" - "TEMPERATURE" - "BATTERY VOLTAGE"; when turned on, the last screen displayed before it was turned off will be shown.

To scroll through the screens, simply swipe your finger from right to left or vice versa on the display.

##### **3.1) "TIME" SCREEN**

On the "TIME" screen, you can select whether to add the temperature or voltage value by briefly pressing the display. You can also choose the dial type from three models:

- HANDED DIAL WITH YELLOW BACKGROUND (RETRO STYLE)
- HANDED DIAL WITH WHITE BACKGROUND (MODERN STYLE)
- DIGITAL DIAL (this screen also displays the date)

To select the desired dial, simply swipe your finger from top to bottom or vice versa on the display.

##### **3.2) "TILT" SCREEN**

The "TILT" screen will display two silhouettes of your Car in the color you selected and with the corresponding current tilt: the lateral silhouette (Pitch) on the left and the rear silhouette (Roll) on the right. The Pitch and Roll values will also be displayed numerically in a box above the corresponding silhouette.

##### **3.3) "TEMPERATURE" SCREEN**

The "TEMPERATURE" screen displays the temperature detected by the sensor.

##### **3.4) "VOLTAGE" SCREEN**

On the "VOLTAGE" screen, you can choose between three dial types:

- HAND DIAL WITH WHITE BACKGROUND
- HAND DIAL WITH BLACK BACKGROUND

#### -DIGITAL DIAL

To select the desired dial, simply swipe your finger from top to bottom or vice versa on the display.

## 4) CONFIGURATION

This section explains how to configure the various settings. To enter the settings menu, press and hold the display until it goes completely black. A screen with four icons for the relevant settings will appear:

### 4.1) **SETUP:**

- Press the "SETUP" icon
- The temperature unit setting (°C - °F) will appear. Select the unit using the + and - buttons and press "Next."
- The DATE format setting (dd/mm/yy - mm/dd/yy) will appear. Select the preferred format using the + and - buttons and press "Next."
- The TIME format setting (am/pm - 24h) will appear. Select the preferred format and the correct hours using the + and - buttons and press "Next."
- The HOURS setting will appear. Select the correct hours using the + and - buttons and press "Next."
- The MINUTES setting will appear. Select the correct minutes using the + and - buttons and press "Next."
- The DAY setting will appear. Select the correct day using the + and - buttons and press "Next."
- The MONTH setting will appear. Select the correct MONTH using the + and - buttons. + and - and press "Next"
- The YEAR setting will appear. Select the correct year using the + and - buttons and press "Next"
- To exit the time setting, simply press "Exit" at any time.

### 4.2) **INCLINOMETER CALIBRATION**

- Press the "LEVEL" icon
- Place the vehicle on level ground
- Press "Calibrate"
- The device will prompt you to wait a few seconds and then return to the main screen. Do not move or sway the vehicle during this time; the device will calibrate itself to allow for precise tilt measurement.

### 4.3) **SELECTING THE BODY COLOR**

- Press the "LEVEL" icon
- Press "Auto"
- The vehicle's silhouettes will appear on the display in the selected color. To change it, simply swipe your finger from right to left or vice versa.
- Once you've selected the desired color, press "OK."

### 4.4) **LANGUAGE SELECTION**

- Press the "WORLD" icon.
- The national flag of the corresponding language will appear on the display. To change the language, simply swipe your finger from right to left or vice versa.
- Once you have selected the desired language, press "EXIT."