

TM *pro* 



USER MANUAL


esp

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The TM-PRO is an essential tool during the installation of CCTV cameras. The TM-PRO is connected locally to provide power for the camera and display images from the camera. This allows the installer to achieve the desired aim and focus of the camera as a "one man" operation. When installing cameras featuring OSD functionality such as the ESP Pro-camera range all image control options can be clearly seen on the TM-PRO's 3.5 inch display.

Features

- Ideal for use with ESP Pro range cameras
- 3.5" TFT low reflection screen
- 12vDC 400ma power output for camera
- Lithium rechargeable (5 hours working time)
- Integral LED work light
- Integral CAT5 cable checker
- Durable design with quality carry case

Before Use

Please read the instructions and check the charging procedure for the TM-PRO.

Charging the TM-PRO

Charge the TM-PRO for 6-8 hours before first use.

This product has to be switched off in order to be recharged.

1. Place the TM-PRO charger into an AC power socket.
2. Place the DC plug into the power socket input on the TM-PRO (see function 8).
3. When the unit is charging the red 'CHARGE' light will be on.
4. When the red light turns off, sufficient power has been restored.

Technical Specification

Display	3.5" TFT Color LCD
Image Resolution	640 x 480
Video In	1 Video In (BNC connector)
Power out	1 DC power out (Support CCD camera of power source/Max electric currenncy 400mA)
System Format	NTSC / PAL
Status Indicator	2 LED (Power IND = Green / Charging IND = Red)
Power Source	Built-in rechargeable Lithium battery: 3.7V 2000mA External power: DC 5V 1.0A Adapter
Dimension	180mm (L) x 98mm (W) x 30mm (H)
Weight	250g

TM-Pro Functions



1. 3.5" TFT LCD
2. A red light indicates the TM-PRO is charging.
3. A green light indicates the TM-PRO is switched on.
4. Press the menu button to scroll through the different menu options: one press for CAT 5 cable checker, two presses for brightness, three presses for contrast and four presses for the saturation option. Press once more to exit the menu. The menu button also displays the battery power level in the top right-hand corner of the LCD.
5. After opening the required menu option, press the 'left pointing' button to reduce the setting for that option.
6. After opening the required menu option, press the 'right pointing' button to increase the setting for that option.
7. 'ON' switch for the working light.
8. DC input for TM-PRO charger 5V AC/ DC 1.0A
9. 'ON/OFF' switch for power.
10. Working light.
11. Input for multi-lead. This lead includes a power output for a camera, the input for a camera video signal and an audio input.
12. Internal speaker.

CAT5 cable checker

The TM PRO features a useful CAT5 cable checker. Insert one end of RJ45 an terminated CAT into the base of the TM-PRO handle. Terminate the other end with the supplied termination block and select CAT5 cable checker function to see an on screen status for all 8 CAT5 cores.

NB this connection is not suitable for display of cameras.



WARNING

This product is not waterproof. Please avoid exposing product to rain, moisture or any liquids as this may cause a malfunction.

CAUTION

Do not disassemble this product. Please contact ESP for repair.

Temperature warning

- Do not put product nearby any heat device or heat source. High temperatures may cause damage to this product.
- Operate in environmental temperatures between 0~60°C.
- Do not move product from an environment of a low temperature to a high temperature, or do the opposite. An immediate change of temperature may cause damage to the product.

Rechargeable battery

It is dangerous to disassemble the product or change the battery because of the high electric voltage inside the product.

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