ITS-100

Cable & Power Budget Tester

Connection Diagram

➔ Do not use the Termination Mode and Bypass Mode at the same time. The measurements will not be accurate.

■ Termination Mode

➔ Do not connect ECP, ETC and EUP terminals at the same time. Connect and measure one by one.

[Termination Mode - ECP test]

[Termination Mode - ETP test]

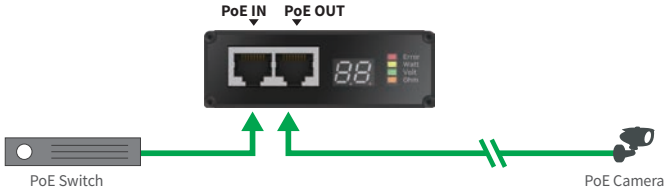
[Termination Mode - EUP test]

■ Bypass Mode

➔ Do not connect products from the EUP series in this mode, as it may cause damages to the device.

[The ITS-100 tester is connected at the end of the LAN cable, on the side of the PoE (PD) camera]

[The ITS-100 tester is connected to the PoE (PSE)]



Overview

This product is a device used to check the power consumption available at the place where a camera is installed. The ITS-100 measures and displays the cable resistance from the receiver to the location of the tester, and the power consumption of the transmitter that can be used there. As the tester can check the power supply and the cable status where the camera is placed, it is also possible to use the ITS-100 for installation and maintenance.

Features

■ Termination Mode (B-Linx Termination Mode, ECP/EUP/ETP products)

- Provides information about the cables used where the camera will be installed.
- Shows the power consumption (Watt) available for the measured cable (Review of the PoE cameras that can be installed is possible).
- Cable resistance (Ohm) from the receiver (Rx) to the tester.
- Voltage supplied from the receiver (Rx) to the tester (The tester measures overvoltage and undervoltage, not the supply voltage).
- Shows an Error when an operation failure is likely to happen on a PoE product (based on the cable voltage drop).
- Shows the measurement information (periodic measure, shown on the Display window).

▸ The tester does not work if it is not connected to a receiver (Rx). The tester does not have a battery, and operates with the output voltage of the receiver (Rx).

■ Bypass Mode (cable connection mode, PoE)

- The tester is set in the middle of the PoE cable and measures the cable performance while the camera is in operation.
- Measures the power consumption (Watt) while the camera is in operation.
- Measures the cable voltage (Volt) while the camera is in operation.
- Measures the power consumption of the camera when the tester is installed on the camera side.
- Shows real-time measurements (periodic measure, shown on the Display window).
- Operates when a PoE camera (PD device) is connected to the PoE Output terminal.

▸ The tester might not work if it is not used with a PD device. (The tester does not have a battery, and operates with the output voltage from the PSE).

Specification

		Termination Mode	Bypass Mode (PoE)	Remarks
Operating Voltage (VDC)		12~60V	38~60V	Bypass Mode is limited to the PoE operating range (af/at)
Display	FND	2 digits, Red	2 digits, Red	7-segment display, 2 digits
	LED	Red: Error Yellow: Wattage (W) Green: Voltage (V) Orange: Resistance(Ω)	Red: Error Yellow: Wattage (W) Green: Voltage (V) Orange: Resistance(Ω)	The LED shows the unit corresponding to the FND value displayed. Error: If the tester is out of the operating range, the LEDs for the measurement units will flash in sequence repeatedly.
Display range		PoE Budget: 1-99W Voltage: 38-58V Resistance: 1-200 Ω Error: 2 digits	PoE Budget: 1-60W Voltage: 38-58V Resistance: 1-200 Ω Error: 2 digits	
Input terminal		ECP: BNC EUP: RJ45 (red) ETP: 2P Terminal model	PoE IN: RJ45 (metal) PoE model	
Output terminal		None	PoE OUT: RJ45 (metal) connection to PoE camera	
Repetition of the Measurement		5s interval	3~5s interval	Information displayed sequentially
Detection function		No Smart detection No PD function	None The PSE recognizes the connected PD camera	The bypass Mode bypasses the PoE signal to the output, so it only measures power, not speed

Dimension