

# DH-PFM906-E

## Integrated Mount Tester



- Supports IPC, HDCVI, AHD, HDTVI, CVBS and SDI monitor video display.
- HDMI input and output.
- 12 VDC 2A and USB 5V 2A output.
- 7-in 1080p HD full-angle retina capacitive IPS touchscreen.
- TDR network cable test and cable tracker function.
- Optical power meter function.

### Series Overview

The Integrated Mount Tester contains majority of the functions that are required for machines used in construction in the security industry. It supports displaying images from the camera, TDR network testing, searching for IP addresses, 12 VDC 2A/PoE power output and Wi-Fi connection.

### Technical Specification

#### System

|                        |                                                                    |
|------------------------|--------------------------------------------------------------------|
| Operating System       | Android                                                            |
| Language               | 13 languages including Chinese and English                         |
| Operation mode         | Physical buttons and touch screen                                  |
| Auto Standby/Power Off | Supports setting automatic standby and automatic shutdown.         |
| Keyboard Sound         | On/Off                                                             |
| Display Screen         | 7-in 1920 × 1080p HD full-angle retina capacitive IPS touchscreen. |
| Button                 | Keypad: 14 keys;<br>Others: Power and on-off button                |
| LED                    | 1 × 35 lm 5mm LED                                                  |
| Update                 | Supports online and local update                                   |

#### IPC Test

|                |                                                         |
|----------------|---------------------------------------------------------|
| Camera Access  | ONVIF and Dahua private protocol                        |
| Resolution     | 1 MP; 1.3 MP; 2 MP; 3 MP; 4 MP; 5 MP; 6 MP; 8 MP; 12 MP |
| Initialization | Yes                                                     |

|                  |                                                                                                     |
|------------------|-----------------------------------------------------------------------------------------------------|
| Image            | Live view, snapshot and recording, zoom, and H.264/H.265 decoding                                   |
| Function Control | Modify the IPC resolution, IP address and account password. Control IPC to restore factory defaults |

#### Analog Video Test

|                        |                                                                                                                                                                                                  |
|------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Video Format           | HDCVI; HDTVI; AHD; CVBS (NTSC, PAL)                                                                                                                                                              |
| Resolution             | HDCVI: 2 MP@25/30 fps, 4 MP@25/30 fps, 5 MP@20 fps, 6 MP@20 fps, 4K@12.5/15/25/30 fps<br>HDTVI: 2 MP@25/30 fps, 4 MP@25/30 fps<br>AHD: 2 MP@25 fps/30 fps, 4 MP@25 fps/30 fps<br>CVBS: NTSC, PAL |
| Function Control       | OSD menu; PTZ control                                                                                                                                                                            |
| Image                  | Live view, snapshot and recording, zoom                                                                                                                                                          |
| Video Signal Generator | PAL; NTSC video test signal                                                                                                                                                                      |

#### SDI Test

|            |                                         |
|------------|-----------------------------------------|
| Resolution | 720p@60 fps; 1080p@60 fps; 1080i@60 fps |
|------------|-----------------------------------------|

#### RS-485 Control

|                        |                                                                                                     |
|------------------------|-----------------------------------------------------------------------------------------------------|
| Communication protocol | More than 30 protocols including Pelco-D/P, Samsung, Panasonic, Lillin, and Yaan                    |
| Baud Rate              | 150 bps, 300 bps, 600 bps, 1200 bps, 2400 bps, 4800 bps, 9600 bps, 19200 bps, 38400 bps, 115200 bps |

#### Wireless

|               |     |
|---------------|-----|
| Wi-Fi Hotspot | Yes |
|---------------|-----|

#### Network

|                 |                                |
|-----------------|--------------------------------|
| Wi-Fi Standard  | IEEE 802.11a/b/g/n/ac          |
| Frequency Range | 2.4–2.4835GHz and 5.15–5.85GHz |

|                          |                                                                                                                                                                                                                                                                                                                                  |
|--------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Transmitter Power (EIRP) | CE EIRP:<br>≤20 dBm@2400 MHz–2483.5 MHz; ≤23 dBm@5150 MHz–5250 MHz;<br>≤20 dBm@5250 MHz–5350 MHz; ≤27 dBm@5470 MHz–5725 MHz;<br>≤14 dBm@5725 MHz–5850 MHz;<br>FCC output power:<br>≤30 dBm@2400 MHz–2483.5 MHz; ≤24 dBm@5150 MHz–5250 MHz;<br>≤24 dBm@5250 MHz–5350 MHz; ≤24 dBm@5470 MHz–5725 MHz;<br>≤30 dBm@5725 MHz–5850 MHz |
|--------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

## Cable Test

|                              |                                                                                                                                                                                                                                                                           |
|------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Network Cable Test           | Tests the network cable pair length, attenuation, latency skew, reflectivity, impedance, the network cable sequence, short circuits, the opening and closing of the network cables, and other parameters, and then generates reports with the information from the tests. |
| Break and Short Circuit Test | Measures the location of a disconnection or the short-circuit of BNC cables, network cables, telephone cables, and more.                                                                                                                                                  |
| Cable Tracing                | Yes                                                                                                                                                                                                                                                                       |

## Others

|                           |                                                                                                                                          |
|---------------------------|------------------------------------------------------------------------------------------------------------------------------------------|
| HDMI Test                 | 1-ch HDMI video input, max. 4K@30 fps;<br>1-ch HDMI video output                                                                         |
| Audio Test                | 1-ch HDMI video input;<br>1-ch HDMI video output                                                                                         |
| Power Supply for Camera   | 12 VDC 2 A                                                                                                                               |
| Network Test              | Features IP address scanning, PING test, bandwidth test, port flashing, link scan and other functions.                                   |
| Voltage Test              | Displays the size of PoE/PSE voltage and line connection                                                                                 |
| Visible Red Light Source  | Emits a visible red light to detect various types of faults in the optical fiber line such as breaks, cracks and bends.                  |
| Protocol Code Acquisition | Built-in serial port tool, can receive and display RS485 protocol code data sent by control device, and can also send hexadecimal codes. |
| UTC                       | Yes                                                                                                                                      |

## DMM

|            |                                                                                                                                                                                                                          |
|------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| DC Voltage | Limit: 60 mV, 600 mV, 6 V, 60 V or 600 V<br>Reading range: –6,000 to +6,000<br>Min Resolution: 0.01 mV<br>Accuracy: For 0.01 mV to 600 V, the accuracy is ± (0.6%+4). For 600 V to 1,000 V, the accuracy is ± (0.8%+10). |
| AC Voltage | Limit: 60 mV, 600 mV, 6 V, 60 V or 600 V<br>Reading range: –6,000 to +6,000<br>Min Resolution: 0.01 mV<br>Accuracy: For 0.01 mV to 600 V, the accuracy is ± (1.2%+4). For 600 V to 750 V, the accuracy is ± (1.2%+10).   |
| DC Current | Limit: 60 mA, 600 mA or 10 A<br>Reading range: –6,000 to +6,000<br>Min Resolution: 10 μA<br>Accuracy: ± (1.2%+10)                                                                                                        |
| AC Current | Limit: 60 mA, 600 mA or 10 A<br>Reading range: –6,000 to +6,000<br>Min Resolution: 10 μA<br>Accuracy: ± (1.2%+10)                                                                                                        |

|                                      |                                                                                                                                                                                                                                       |
|--------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Resistance Test                      | Limit: 600 Ω, 6 kΩ, 60 kΩ, 600 kΩ, 6 MΩ or 60 MΩ<br>Reading range: 0–6,000<br>Min Resolution: 0.1 Ω<br>Accuracy: For 0.1 Ω to 6 MΩ, the accuracy is ± (0.8%+10). For 6 MΩ to 60 MΩ, the accuracy is ± (2.5%+4).                       |
| Capacitance Test                     | Limit: 6 nF, 60 nF, 600 nF, 6 μF, 60 μF, 600 μF, 6 mF or 60 mF<br>Reading range: 0–6,000<br>Min Resolution: 1 pF<br>Accuracy: For 1 nF to 6,000 μF, the accuracy is ± (3.5%+20). For 6,000 μF to 60,000 μF, the accuracy is ± (5%+4). |
| Diode Voltage Drop                   | Limit: 3 V<br>Reading range: 0–3,000<br>Min Resolution: 1 mV<br>Accuracy: ± (1.2%+20)                                                                                                                                                 |
| Continuity Test                      | Limit: 50 Ω<br>Reading range: 0–500<br>Min Resolution: 0.1 Ω<br>Accuracy: ± (1.2%+20)                                                                                                                                                 |
| Frequency Test                       | Limit: 6 Hz, 60 Hz, 600 Hz, 6 kHz, 60 kHz, 600 kHz or 6 MHz<br>Reading range: 0–6,000<br>Min Resolution: 0.001 Hz<br>Accuracy: For 1 Hz to 6 MHz, the accuracy is ± (0.1%+3).                                                         |
| Neutral and Live Wire Identification | Yes                                                                                                                                                                                                                                   |

## Optical Power Meter

|                       |                                                                     |
|-----------------------|---------------------------------------------------------------------|
| Detector Type         | InGaAs                                                              |
| Calibrated Wavelength | 1625/1550/1490/1310/1300/850 nm                                     |
| Power Test Range      | –70 dBm to +10 dBm                                                  |
| Measuring Accuracy    | <±3% dB (–10 dBm, +22 °C/+71.6 °F)<br><±5% dB (FS, +22 °C/+71.6 °F) |
| Screen Resolution     | Linear: 0.1%, logarithmic: 0.01 dBm                                 |
| Connector             | FC/PC                                                               |

## Port

|              |                                                                                                                                     |
|--------------|-------------------------------------------------------------------------------------------------------------------------------------|
| Power        | 1 × charge port, 12 VDC 2 A<br>1 × power output port, 12 VDC 2 A                                                                    |
| Audio Port   | 1 × audio input port;<br>1 × audio output port                                                                                      |
| USB          | 1 × type-A port                                                                                                                     |
| Network Port | 2 × RJ45 10/100/1,000 Mbps network ports (one port supports PoE and the other supports PSE IN)<br>1 × UTP/SCAN port<br>1 × TDR port |
| SD Card Slot | 1 × micro SD card slot, and it supports memory expansion up to 32 GB, and FAT32 and NTFS formats.                                   |
| HDMI         | 1 × HDMI input port;<br>1 × HDMI output port                                                                                        |
| RS-485       | 1                                                                                                                                   |
| VLS          | 1                                                                                                                                   |
| OPM          | 1                                                                                                                                   |
| Multimeter   | 4                                                                                                                                   |
| BNC          | 4                                                                                                                                   |

Power Supply

|              |                                                                                                   |
|--------------|---------------------------------------------------------------------------------------------------|
| Power Supply | 12 VDC 2 A                                                                                        |
| Battery      | Replaceable polymer lithium battery with a capacity of 37 Wh, and a working time of about 8 hours |

Protection

|                        |                                                 |
|------------------------|-------------------------------------------------|
| Surge Protection Grade | Common mode: ±2 kV;<br>Differential mode: ±1 kV |
| Statics Protection     | Air discharge: 8 kV;<br>Contact discharge: 6 kV |

Structure

|                      |                                                                     |
|----------------------|---------------------------------------------------------------------|
| Appearance Color     | Yellow                                                              |
| Product Dimensions   | 270.0 mm × 160.0 mm × 46.0 mm (10.63" × 6.30" × 1.81") (L × W × H)  |
| Packaging Dimensions | 313.0 mm × 286.0 mm × 96.0 mm (12.32" × 11.26" × 3.78") (L × W × H) |
| Net Weight           | 0.95 kg (2.09 lb)                                                   |
| Gross Weight         | 2.1 kg (4.63 lb)                                                    |

Environment

|                       |                                      |
|-----------------------|--------------------------------------|
| Operating Temperature | −10 °C to +55 °C (+14 °F to +131 °F) |
| Operating Humidity    | 30%–90% (RH)                         |
| Storage Temperature   | −20 °C to +70 °C (−4 °F to +158 °F)  |
| Storage Humidity      | 30%–90% (RH)                         |

Certifications

|                |         |
|----------------|---------|
| Certifications | CE; FCC |
|----------------|---------|

Dimensions (mm[inch])



Ordering Information

| Type                    | Model       | Description             |
|-------------------------|-------------|-------------------------|
| Integrated Mount Tester | DH-PFM906-E | Integrated Mount Tester |