

# NEON-TM-PRO+ Specifications

Model		HD Combine Tester	
<b>IPC test</b>			
IPC protocol	ONVIF, RTSP, RTP		
Ethernet Test	10M/100M/1G Ethernet link detection; Ethernet loop detection; DHCP client and server; Ethernet traffic detection, data link quality detection.		
IPC Test	Discovering the device, real-time video, camera configuration, PTZ test, discovering ONVIF device cross the network segment		
IPC Image Test	H.264/H.265 decoding, support 4K@30FPS, local zoom preview (at 8 levels)		
Interface	Dual-port RJ45 Ethernet 1Gbps, support Series/bridge connection		
<b>WI-FI test</b>			
WIFI test	Support 2.4G and 5G frequency band, WIFI connection, WIFI list, WIFI information detection, delay detection, test of packet loss rate.		
Spectrum test	Support 2.4G and 5G frequency band, spatial frequency band signal scanning and detection, and spatial noise (interference) signal detection.		
Signal monitoring	Support 2.4G and 5G frequency band quick monitoring of signal change, refresh frequency: 1-10Hz.		
Antenna type	External foldable dual antenna. Dual band Dipole omnidirectional antenna		
<b>POE test</b>			
PD test	The tester receives the power. 802.3at; power supply voltage detection		
PSE test	The tester supplies the power. 802.3at; 25.5Wmax, PD actual power detection		
<b>Analog video test</b>			
Video format	NTSC/ PAL/ HD-CVI3.0 standard/ AHD3.0 standard/ HD-TVI3.0 standard		
Video signal	1Vpp		
Video input/ output	Video IN BNC input, Video OUT BNC output		
Video digital zoom	Support digital zoom at 8 levels		
Video signal generator	Sending PAL / NTSC video test signal, sending CVI, AHD and TVI video test signal (720P/1080P).		
<b>HDMI signal test</b>			
HDMI Input	Can receive 720P 25/30/50/60Fps,1080P 25/30Fps input signals for display		
HDMI Output	Can output various formats of test images(720P 25/30/50/60Fps,1080P 25/30Fps)		
<b>12V power output</b>			
Power output	12V/2A output Interface: Round, external diameter 4mm; Internal needle: 1.6mm		
<b>Audio test</b>			
Audio test	1 x Audio signal input		
<b>Coaxial PTZ control test</b>			
Communication interface	Video IN BNC interface		
Communication protocol	CVI protocol (dahua coax), AHD protocol (Pelco c) and TVI protocol (Hikvision)		
<b>485 PTZ control test</b>			
Communication interface	RS485		
Communication protocol	More than 30 protocols, including Pelco-D/P, Samsung, Panasonic, Lilin and Yaan		
Baud rate	150, 300, 600, 1,200, 2,400, 4,800, 9,600 and 19,200bps		
<b>LED lighting (flashlight)</b>			
Head LED	2 x 35lm LED, wide angle		
<b>TDR cable test</b>			
Cable test	Testing the length of network cable (4 pairs). Resolution: 0.1 meter; Accuracy: 1 meter. The maximum length of the measured cable is 130-200 meters (depending on the wire rod).		
<b>Power supply</b>			
Charger	12V/1.5A 5.5mm round-plug power supply		
Battery	Equipped with two battery compartments One special lithium battery pack can be placed in each battery compartment, with a single capacity of 18.5Wh. The combined working time is about 10 hours (it also can work with a single battery).		
Charging	12V/1.5A charging, Power: 18W, max. Charging time: 3~4 hours.		
Power saving	Can set the automatic switching of overtime and display the icon of battery level in real-time.		
<b>System parameters</b>			
Display screen	7.0" TFT 1920*RGB*1200 (resolution),16.7M(color), Backlight brightness adjustable		
Operation method	Power button, Master control keyboard with 13 keys, Full lamination technology capacitive Multi-touch screen (input)		
Operation settings	Chinese / English interface, user optional		
Automatic standby	Disabled / 5-60 minutes		
Keyboard tone	Enabled / Disabled		
<b>Working environment and specifications</b>			
Working temperature	-10 C ~+55 C		
Working humidity	30%-90%		
Outline dimension	236.5x133.4x45.4mm		

## Digital multimeter

(Please refer to the manual for electrical parameters and safety parameters )

Item	Measuring range	Range of readings	Minimum resolution	Accuracy
DC voltage (DCV)	2V, 20V, 200V, 600V	±19999	0.1mV	±0.1%+8*
AC voltage (ACV) (True RMS)	20V, 200V, 600V	±1999	1V	±1.2%+3
DC current	20mA, 200mA, 2000mA	±19999	1uA	±0.1%+8*
AC current (True RMS)	20mA, 200mA, 2000mA	±1999	1uA	±1.2%+3
Resistor	2KΩ, 20KΩ, 200KΩ 2MΩ, 20MΩ	0~19999	0.1Ω	±0.1%+8*
Capacitance	2nF, 20nF, 200nF, 2uF, 20uF, 200uF, 2mF, 20mF	0~1999	1pF	±4%+5
Diode forward voltage drop	2V	0~19999	0.1mV	±0.1%+20
Conductivity test	2KΩ	0~19999	0.1Ω	±0.1%+20

## Technical parameters of laser power meter

Type of detector	InGaAs
Calibration wavelength	1625n, 1550nm,1480nm,1310nm,1300nm and 850nm
Power measurement range (dBm)	-70 ~ +10 dBm
Measurement accuracy	<±0.3dB (-10dBm @ 22 ) <±0.5dB (Full-scale range @ 22 )
Display resolution	Linear display:0.1%, Logarithmic display: 0.01dBm
Connector	Interchangeable FC/PC