HIK HI						👩 💷 📋 02:59 🔯
Onlin	e Detection :				Detail :	
No.					IP address :	
1	DS-2DC2402IW-D3/ W	192.168.1.65			Subnet Mask ;	255.255.255.0
2					Coteway -	102 168 1 1
					Gateway .	
	Please choose the way to activate '					IS-2CD3325-I2017
						admin
		Fostore		v	ourne activation Press wrong in the	show
					Enable	
					Modify Channel	
					Modify user	

"Activation" and "Batch activation" are optional.

Auto open ONVIF protocol: After activation, the new HIK cameras click "play, modify the channel name, modify network information, modify user information" any one of to auto open the selected camera ONVIF protocol.

Play: Security status shows the "activated" camera. Enter the correct camera password in the right [password] and click [play] to pop up the "private protocol" or "speed ONVIF" two options. Select the protocol you need to see the camera images.

w// H						🗟 🛹 📋 03:00 🚺
Onli	ne Detection:				Detail :	
	Type DS-2DC2402IW-D3/	IP address 192.168.1.65	Activated	DHCP	IP address :	192.168.1.65
	W DS-2002225-1	102 169 1 64	Insetivad	OFF	Subnet Mask ;	255.255.255.0
					Gateway :	
			No	n ONVIF		
				200.05		

r age. 50.

Modify channel name: Clicking "Modify the channel name" will pop up OSD settings, including time, channel name and other optional items.

After channel selecting, you can edit the channel name, modify the display position, and switch the font size. Select "default location" in "content location" is without modification. Select "Customization" to arbitrarily adjust the channel name and display location. Click"OK" and the effects will appear. Press return key or click any area of the screen to return to the upper layer of the interface.

OSD modification	
pl	ease input
Content location	
Top left corner	 Top right corner
O Lower left corner	O Lower right corner
 Default position 	 customize
Font size	
🔿 Big	🔘 Small
O Mid	Default size
Cancel	ок

Modify network information: Support "modify" and "batch modify" camera IP address, subnet mask and other parameters modification.

MINTH	IK					🗑 로 📋 03:02 🔀
Onli	ne Detection :				Detail :	
No. 1 2	Type DS-2DC2402IW-D3/ W DS-2CD3325-I	IP address 192.168.1.65 192.168.1.64	mode Activated Inactived	DHCP OFF OFF	IP address : Subnet Mask : Gateway :	192.168.1.65 255.255.255.0 192.168.1.1
	P	lease choose Modify	the way to	o modify	Batch modifying	S-2DC2402IW-D3/ admin min1234 Y Hide
					Enable Modify Channel	Play Modify network

Enter a new IP address and subnet mask, the default gateway will be auto modified according to the IP address. Click "OK" to save the changes.

HIK HIK				👼 🐢 📋 03:02 🔀
Online Detection :		Detail :		
No. Type IP 1 DS-2DC2402IW-D3/ 19; W 2 DS-2CD3325-I 19;	address mode 2.168.1.65 Activat 2.168.1.64 Inactiv	ed OFF	IP address : Subnet Mask :	192.168.1.65 255.255.255.0
Pleas IP add	e enter need cha	ange informa 192.168.1.0	ation :	192.168.1.1 -S-2DC2402IW-D3/
Subnet	Mask :	255.255.255.0		min1234 👻 Hide
	Cancer		EnAble	Play
			Modify Channel	
				Factory Reset

Modify user information: Modify the camera's user name and password.

AUX H	IK					🗑 🛹 📋 (3:02 🔀
Onli	Online Detection : Refresh				Detail :		
No. 1	Type DS-2DC2402IW-D3/ W	IP address 192.168.1.65		OFF OFF		192.168.1. 255.255.25	
2	2 DS-2CD3325-1 192.168.1.64 Inactived OFF Please enter user name and password :				192.168.1.1		
	User name : Password :		_adm	in		admin	
		Cance	e.		ок	min1234 🔗	



Factory Reset: Camera factory reset.

3.3.39 Dahua test tool

Dahua test tool is developed for installation and debugging of the Dahua IP camera, it can display image, and modify IP, user name and password etc. Making Dahua camera test more convenient and quickly.

Activation: select left [online detection] to display the "inactivated" camera and click activate.

DH D	H test tool			S 루	11:15 AM 🔀
Onlii Dete No.	ne ection : Type	Re IP address	fresh mode	Detail: IP address : Subnet Mask :	192.168.1.108 255 255 255 0
16	IPC- HDB4231C- AS	192.168.1.108	Inactived	Gateway : S/N :	192.168.1.1 2M03274YAG000
17	IPC- HFW4236M- 12	192.168.0.223	Activated	User name : Password :	admin admin12 Hide
18	DH-NVR4216- HDS2	192.168.0.251	Activate	Enable	Play
19	IPC- HDW4238C- A-V2	192.168.0.243	Activated	Modify Channel	Modify network
20	IPC-	192.168.0.245	Activated	Modify user	Factory Reset

Activate and Batch activate are optional, support reserved phone number for resetting

password.

DH test to	ol		8	11:16 AM 🚺
Online Detection : No. Type	Refr IP address	esh mode	Detail: IP address: Subnet Mask:	192.168.1.108 _255.255.255.0
16 IPC- HDB4231 AS	Please choose activate :	e the wa	iy to	192.168.1.1 M03274YAG00
17 IPC- HFW4236 12	Enable	Vol	ume activation	admin Idmin121 Hide
HDS2	16-192.168.0.251 /	Activate		
19 IPC- HDW4238 A-V2	192.168.0.243 A	Activated		
20 IPC-	192.168.0.245	Activated		

DH D	H test to	ol	i 🛒 🛱	11:16 AM 🐹	
Onli Dete	ine ection :	Enable		192.168.1.108	
No.	Туре	Diassa antar 9.16 chara	255,255,255,0		
16	IPC-	of two or more digitals,	capital letters,small	192 168 1 1	
	HDB4231 AS	letters or special symbo	M03274YAG000		
17	IPC-	admin1234		admin	
	HFW4236 12	Reserve phone number, password	dmin12 Hide		
18	DH-NVR42 HDS2	1		Play	
19	IPC- HDW4238 A-V2	Cancel	ок	vladify network	
20	IPC-	192.168.0.245 Activ	/ated I	Factory Reset	

Play: When mode display "activated" camera, input correct password, click "Play" poping up "private protocol" and "ONVIF", Select correspond protocol to view the camera image.

DH test tool		6	🛾 11:19 AM 🔀
Online Detection : No. Type	Refresh	Detail : IP address :	192.168.5.179 255.255.255.0
1 IPC- HFW4236 12 2 IPC-	Non ONV	ΊF	192.168.5.1 C0390DPAA010
HDW4431 3 IPC- HFW4236	ONVIF		admin
4 IPC- HFW4236M- I2	192.168.0.241 Activated	Modify Channel	Play Modify network
5 IPC-	192.168.0.220 Activated	Modify user	Factory Reset

Modify Channel: Click "Modify Channel", will pop up OSD setting, includes time, channel name,etc

2018-08-21 1	1:21:14
	OSD
	1. <date and="" time:=""> 2018/8/21 11:21:12</date>
	2.Channel name: IPC camera
	3.
	4.

After selected Channel name, can edit channel name, modify the display position and font size. If select "Default position" of Content location, then no need to modify. If select "customize", then can modify Channel name and display position, click "OK"to view the image. Click "Back" or "Return" button to return previous interface.

2018-08-21	11:01:14		
	IPC ca	mera	A
	Content location		-
	O Top left corner	O Top right corner	
	O Lower left corner	O Lower right corner	C
	Default position	customize	
	Font size Oefault size		
	Cancel	ок	
			IPC camera

Modify Network: Support Modify and batch modify two way, can modify camera IP address, Subnet mask and gateway.



Input new IP address, need to input password, click "OK" to save the modification

DH test tool	🐻 🛒 🖥 1	1:19 AM 🔀
Online Please enter need	I change information :	58.1.108
No. IP address :	192.168.1.108	55.255.0 168.1.1
2 DH- Subnet Mask :	255.255.255.0	74YAG000
3 Gateway :	192.168.1.1	• • show
Password :	·	lay
HD Cancel	ОК	network
5 IPG- 192.106.0.224	Activated woony user r	actory Reset

Modify user information: Modify camera user name and password, which is onvif, Dahua test

tool, IPC TESTE user name and password, not web user name and password.

DH te	est tool		🐻 🚅 📋 11	:34 AM 🔀
Online Detectio	Please enter us	er name and pass	word :	58.5.179
6 HF	Only modify the	e device login pass	word.	55.255.0 168.5.1
7				DPAA010
HD\	User name :	admin		Imin
8 HF'				• show
	Password :		100	lav
9 HF	Cancel		ок	network

Factory reset setting: Camera will be soft reset, and the device's user name, password and

DH DH					iii 🐖 🗑 05:53 💈
Onlin	e Detection :			Detail :	
	Туре	IP address			
	IPC-HFW4236M-I2	192.168.0.241	Activated		
	IPC-HFW4236M-I2	192.168.0.239	Activated	Subnet Mask 1	255.255.255.0
	IPC-HFW4236M-I2	192.168.0.224	Activated	Cotoway	102 169 1 1
	IPC-HDW42380				192.100.1.1
	IPC-HFW4236	Factory R	eset,0K?		2.104A68YAG00003
	IPC-HFW4236				
	IPC-HDW212 Device	will be hardware re	eset, is it OK?		admin
	IPC-HFW4236				
	IPC-HDW42380				imin1234 💌 Hide
	IPC-HFW4236	Cancel		OK	
	IPC-HDB4231C-AS	192.100.1.100	Activated		a series of the
	IPC-HFW4236M-12				
	IPC-HDW4238C-A-V2	192.168.0.225			
	IPC-HFW4236M-12			Modify Channel	Modify network
	IPC-HFW4236M-I2	192.168.0.232			
	IPC-HFW4236M-I2				
				Modify user	

network set be saved. Other settings information is factory reset.

3.3.40 Update

Copy the downloaded update file to SD card "update" directory, if no directory, please create one. Click the icon to open the Update menu. Select "Local Update" to update via the SD card or select "Online Update" to check for updates on the internet. If there are applications that need updating, the applications will be displayed on the



If there are update programs, applications will be listed in the interface, click related applications, update to the latest version.

Update online: Before using online update, need enter settings-user management to register first.

System update: Connect the Internet to update systems.

3.3.41 Office

Quick office app (support excel, word, ppt format) doc. editable



3.3.42 LED Flashlight

It is convenient for the installation or maintenance in the evening or in the dark. Clicks



to enter

While in the flashlight app, click the red button to turn on the LED lamp. Press it again to turn it off. If you don't press the received on to shut off the lamp and press the button to exit the app, the lamp will stay on. Click the Time Setting button to set a timer that will shut off the lamp.

3.3.43 Browser

Click icon 😽 to enter

Type in the camera's IP address and press "Go" to access the IP camera's interface.

NOTE: You will not be able to view live video in the web browser. For viewing video, use the IP tester's live camera view Apps



The IP camera and IP tester be on the same network segment for the browser to interface with the camera. If they are not in the same segment, click the button or press "RETRUN" to exit. Open the "Settings" app from the main menu to change the IP tester's

network settings to match those of the IP camera.

3.3.44 Notepad

Notepad can be used to record the important testing results, click the key "Save" to save the contents. Notepad can auto record the storage date and time.



Please click to view the notepad, all saving contents display. Click each record bar to





3.3.45 Professional Wifi Analyzer

Detect the surrounding wifi signal and signal strength, support 2.4G and 5G frequency band.

🗢 WIFLAT	alyzer						- - - - - - - - - - - - - - - - - - -	B:4B 🔀
WI AN	OFTON	2.4G 5G						÷\$
Honor V10 Connected	1	äighalisti -aa	renght Charl		°	C†annel o	hart	
LieBaoWiFi Unconnector	984 👒	-n						
DH-GCB Unconnected	ŝ	-n		sı fils	41			sigis
ozzy-iPhon- Unconnect-c	e6s 🦷	27		i strengtt	ы. 12			i strengtt
		и 			е —			sames:
		SSIN Frequency Channe Bandwidth: Made	Honor V16 2487 6 20MHz Hlaýg/ner sed	MAC Encryp Date Signal	ted method: Strongth:	78 62 55 c i 9f bo [WPA] 72 Mbps -75 dBm	7 8 9 11	-
		Domnected:Honor V10	192 168.43.252 355 2 255 2	DHCP	Sarver:	192.168.43 C5		
Connect	Disconnect	Subire! Mack: Catoway DNS	255 288,286,0 192 168,43,95 192 168,43,95	Real ra Status: Local N	NAC:	Connected 20:32:33 /0:ea #3		
WIFI	Test	Signal strenght Chart	Channel ch	art	Cha	nnel level	Access Poir	nt list

Access point list and List format, display WIFI's channel, frequency, signal strength, device

WIFL Analyzer				🗧 🝦 🔓 08:51 🔀 च 🏚
	Honor V10-78:52:56: Channeli Cathar 2437MHz 20MHz [MPA]	:1.91.bc	-82 dBm	– 123.2m Un Knew
Honor V10 Connected 78:52:56:e1:9fbc IP address: 192.168.43.252	DF-GC8 bic/fk85:casb Channel10 245/MH2 20MH2 20MH2	xt:7a	86 dHm	~ 193.7m UnKnew
Subnet Mask: 255.255.255.0 DNS 1: 192.168.43.95 DNS 2: 0.0.00 DTCP Server: 192.168.43.95	LieHaoWiHi§84 (0/d3 Channell 2462MHz 20MHz [WPA]	:b0:9e:ba:e8	-E8 ¢Em	~243.3m UnKnow
	ASUS 03:62:65:30:66 ChannellU 2457Milz 20MH2 [WP4]	90	-103 dBm	~970.7m (hi dage
	WL_Xiaenri 10.54.29.1	2.77.£c		-976.7m UnKnew
WIFI Test S	ignal strenght Ghart	Channel chart	Channel level	Access Point list

information and distance, etc.

3.3.46 System Setting

Click icon 👸 to enter			
© Settings			🗃 💷 🛱 12:41 🔀
Aa) Language & input	Ime		
Date/Time		简体中文	C
IP Settings		繁体中文	0
🛞 WLAN Net		English	
Brightness		Polish	.0
Volume	-	Italiano	<u>.</u>
SD card		한국어	Ŭ.
		Русский	0
F IP server		España	0
Version Information		日本語	.0.
Screen Rotation		Français	0
PTZ address scanning		Deutsche	0

Language: Select your desired language: English, Chinese, Korean, Russian, Italian, Polish,

Spanish, French or Japanese, German, Turkish, etc.

Settings 🗂 🐖 🖻 12:41 🔀 Language Date/Time 搜狗输入法 IP Settings Android Keyboard (AOSP) WLAN Net Japanese IME 谷歌拼音输入法 Brightness lume SD card FTP server on Information Screen Rotation PTZ address scanning

Typewriting: You can select typewriting or install other typewriting:

Date/Time: Set the Date/time of the IP tester

IP setting: Manually set the IP address, Subnet Mask, Default Gateway and DNS address or select "Dynamic allocation" to use DHCP. To test multiple network segments, click "Advanced" and then click "Add" to enter another IP address for the IP tester.

👰 Settings					🖷 💷 🖥 I	2:41 🔀
Ad Language & input						
🐻 Llate/Time		IP	Setti	ngs		
IP Settings	Mode:	Ethernet		DHCP server	ON	
WLAN Net	IP Set i	n: Static	Dyna	amic(DHCP)		
🕐 Brightness	IP Addr	ess:	192.	.168.0.109		
🚺 Volume	Subnet	Mask:		.255.255.0		
Dies CE	Gatewa			2.168.0.1		
EIP server	DNS ad	dress:		.96.128.86		
Version Information						
😰 Screen Patation		ок	Å	Advanced	PPPOE	
📵 PTZ acchess scanning						

After setting an advanced IP address (refer to the photos above), the unit can test two network segments (192.168.5.0) and (192.168.1.0)

WLAN Net: Turn WiFi off or on by pressing the "Open the wifi" button. Once WiFi is turned on,

and click connected WIFI, it will scan for wireless networks in your area.



Select and press "WIFI" several seconds, to set static IP address.

🧟 Settings				💷 📋 7:23 PM 🔀
Að Language & input			OFF	
Date/Time				
	WL_Xiaomi			
IP Settings	IP Address:	192.168.1.2		
WLAN Net	Gateway:	192.168.1.1	-15	
Brightness	DNS:	8.8.8.8		
A Maluma	-	Vpnamic(DHCP)		

Wi-Fi hotspot: Input "SSID" name and "password", and then click "ok" to create Wi-Fi hotspot.

🥺 Settings				ä 🗉 🖇	🕽 🗎 7:23 PM 🐹
Að Language & input				OFF	
Date/Time					
IP Settings	-				
WLAN Net	SSID:	ssid2.0x			
Brightness	PW:	12345678			
Volume	ок		Cancel		
() SD card				e	
FTP server					
Version Information					
Quick decoding					

Brightness: Set the desired brightness of the IP tester and adjust the sleep time settings.

Volume: Set volume level

SD Card: Displays SD Card Capacity. You can also format the SD card or unmount it before removing it.

FTP server: Once the IP tester connects to a network, a computer can be used to read the SD card files via FTP



Start the FTP server and then input the tester's FTP address in the PC's address bar. This will enable the PC to read, copy and edit the files from the SD card without the use of SD card reader.

	and the second se				and the second se
80 ·	0 1000 9009				8· 0
भ्रे तक्षर	android_secure	Junder, backup	2.0	Larns 202	Android
Rigt Rigt	baide 200	DaidsNetdisk 2008	declassificand 258		Download 2210
H 6:0	expandupdate Dittilt	DC_IMAGE 2119	LOST DIR DIRR	Movies STOR	Manic 2008
i 2m i S#Fet	Notifications	L context	ONVIFTeelPhete	DW/FToc/Videotape	0460 2018
	HEOWNLOAD	phono RHR	Pictures 2018	Pedcasts 2/10	privatnohoto 2019
(C) 本地理者(C) (C) 本地理者(C))), privatevideo RER		Riegtores Sitia) System Volume Information	ysten.update
A Da	tape	L tendate	ThurderDeverload	L toolsup	update Sitist
	video 2.9.9	allan 2008	w zee	1080p.jpg	2060p.mp4
	2000-01-02-07-26-42.mp3	2000-01-02-07-42-14.mp3	2000-01-02-07-46-18.mp3	2000-05-02-07-49-02.mp3	Amp3
	a25_gpic.ko	enjog	Equipaceae 🙀	Be My Girling3mp3	berben.mp3
	oc.h264	chi_sim.trained.data	al desktop.clg	engatrainedidata	Framaroot-+1.9.1cn.apk
	INLapk	m44.6ehu F7.mt6577-recovery- 20121205img	Markaurchapk	nike_test_1920_test.h264	🙀 mini starigerig
	amqipg	mmw.mks	antwork.cfg	and pressing	same for

Version Information: Shows applications version information, if press any apps icon several seconds to uninstall.

Screen display rotation: Click on "Screen Rotation" to flip the IP tester's display 180 degrees. This function is very convenient for the user to connect the LAN cable on the bottom of the unit without having to flip the unit itself.

PTZ address scan: You can toggle the PTZ Address scan off or on before entering the "PTZ controller" app. This needs to be turned on in order to use the PTZ Scan feature of the PTZ app.

Online Registration: Online update need register first, after the tester connect to network, then fill registration information to register.

User Feedback: If you have any comments or suggestions for the tester, please connect it to network and write your feedback.

Lock Screen: The meter default is not locked. You can choose password Lock screen, pattern Lock screen or "NO".

Password Lock Screen: Set password, you can input digitals, letters or characters as password, input it again to confirm .when the meter is in standby mode or turn it on, you can input your password to enter.

Pattern Lock Screen: Drawing a pattern to lock. While the meter is in standby mode or turn it on, you can input your pattern to enter.

Modify Lock screen password, you need input lock password again. Select password Lock screen or pattern Lock screen to reset lock screen password. After reset pattern lock screen, you need to draw a new lock pattern.

Restore the factory settings: If the tester to restore factory settings, all your personal files and apps will be removed.

3.3.47 File explorer

Click "File" on the top bar tool, can select internal or external storage. Click on the upper right corner lcon"... ". will pop-up menu, you can select other operation or exit.

BROWSE	FILE FTP	1
/mnt		
asec (0) 1 2:20 PM	
extern 1/1/193	al_sd (6) 10 12:00 AM	
intern 1/1/193	aLsd (34) 0 12:00 AM	
obb (0 1/3/201	1 2:20 PM	
sdcan 1/1/19	d (24) 0 12:00 AM	

Browse

It includes Music, Videos, Pictures, Documents, zip file etc. It is convenient to view and manager.



FTP server

You can choose internal or external SD card.

Other operation details, Please refer to FTP settings.

BROWSE FILE FTP		
	Anonymous login	external SD internal SD
	I need to use FTP client	
	start convice	

3.3.48Audio test

You can test the audio input from audio pickup devices by connecting the audio pickup device to the IP tester with the supplied audio cable.



4. Specifications

4.1 General Specifications

Model	IP Camera Tester [*] models Optional	
Display	New 8 inch retina touch screen, 2048x1536 resolution	
Network port	10/100/1000M auto adjust, RJ45, Dual LAN port	
WIEI	Built in WIFI, speeds 433M, allows you to connect to a wireless	
WIFI	network and view IP cameras, Operating Frequencies: 2.4G and 5G	
Professional Wifi	Detect the surrounding wifi signal and signal strength, support 2.4G	
Analyzer	and 5G frequency band.	
H.265 Mainstream	New hardware decoding, 4K H.265/H.264 camera image display by	
test	mainstream testing.	
IP discovery	Auto-scan the whole network segment camera IP	

	Search camera quickly, auto log in and display image from the	
Rapid ONVIF	camera, activate Hikvision cameraSupport 4 channels	
	H.264/1080P.	
	Batch activate Hikvision camera, display image from the camera,	
Hik test tool	modify Channel, batch modify IP, user name and password	
	parameters etc.	
Diliteet to a	Batch activate Dahua camera, batch modify IP, modify Channel, user	
	name and password parameters etc.	
	ONVIF, ONVIF PTZ, Dahua IPC-HFW2100P, Hikvision DS-2CD864-E13,	
IP camera type	Samsung SNZ-5200, Tiandy TD-NC9200S2, Kodak IPC120L,	
	Honeywell HICC-2300T, RTSP Viewer	
	Auto-recognize the resolution and Auto-display the image of the	
AutoHD* (Optional)	connected camera. Support coaxial PTZ control and call OSD menu,	
	support up to 8MP TVI/CVI/AHD and CVBS cameras.	
AK HD Coavial level	Through hardware high-speed sampling and processing technology,	
toet	accurately measure video peak level, sync level and burst level. By	
1651	one key to create testing report.	
SDI video signal test	1 channel HD-SDI/EX-SDI input (BNC interface), resolution support:	
* (Ontional)	720P 60fps, 1080P 60fps, 1080i 60fps, EX-SDI: 2560 x1440P	
(Optional)	/25/30fps, 3840 x 2160P 20/30 fps, UTC control and call OSD menu	
	1 channel CVI input (BNC interface, resolution support 720P	
CVI video signal test	25/30/50/60fps,1080P 25/30fps, 2560x1440P 25/30fps, 2592x1944	
* (Optional)	20fps, 2880x1920 20fps, 3840 x 2160 12.5/15 fps. UTC control and	
	call OSD menu	
	1 channel TVI input(BNC interfce),resolution support 720P	
TVI video signal test*	25/30/50/60fps, 1080P 25/30fps, 2048x1536P 18/25/30fps,	
(Optional)	2688x1520P 15fps, 2560x1440P 15/25/30fps, 2560x1944P	
	12 5/20fps 3840 x 2160 12 5/15 fps LITC control and call OSD menu	

	1 channel AHD input(BNC interface),resolution support 720P			
AHD video signal test	25/30fps, 1080P 25/30fps, 2048x1536P 18/25/30fps, 2560x1440P			
* (Optional)	15/25/30fps, 2560x1944P 12.5/ 20fps, 3840 x 2160P 15 fps, UTC			
	control and call OSD menu			
Analag video taat	1 channel BNC Input & 1 channel BNC Output , NTSC/PAL (Auto			
Analog video test	adapt)			
	PEAK video signal level, SYNC signal level, COLOR BURST chroma			
video level meter	level measurement for CVBS camera.			
Zoom Image	Supports Analog and IP camera image zooming & movement			
Snapshot, Video	Capture current images and record live video as JPG file. Media			
record and playback	player will view photos and playback video			
	HDMI IN, Support 4K 60FPS, 3840x2160P 60FPS, 720×480P			
HDMI IN	/720×576P/1280×720P/1920×1080P /1024×768P/1280×1024P			
	/1280×900P /1440×900P.			
	1 channel HDMI output, supports up to 4K 30FPS, 3840x2160P			
	30FPS.			
	RJ45 cable TDR test and cable quality test, to test cable pair status,			
RJ45 cable TDR test	length, attenuation reflectivity, impedance, skew and other			
	parameter.			
24V 2Apower output	Output DC24V/2A power to camera			
12V 3A power output	Output DC12V/3A power to camera			
USB 5V power output	5V 2A power output			
PoE power output	48V PoE power output, Max power 25.5W			
Soroon management	Under normal mode, you can change icons sequence and self-define			
Screen management	the number of icons in each page			
Thoma	Self-define icons, desktop and application interface background,			
	modify interface sliding effect.			
	······································			

	screen lock, password lock screen or pattern lock		
Audio tost	1 channel audio signal input and 1 channel audio signal output to		
Audio test	connect headphones		
	SupportRS485 control, Baud 600-115200bps, Compatible with more		
PTZ control	than 30 protocols such as PELCO-D/P, Samsung, Panasonic, Lilin,		
	Yaan, etc		
Color bar generator	Output one channel PAL/NTSC color bar video signal for testing		
	monitor or video cable.(red, green, blue, white and black color)		
LITE Cable tester	Test UTP cable connection status and display on the screen. Read		
	the number on the screen		
Data monitor	Captures and analyzes the command data from controlling device,		
	also can send hexadecimal		
	NET TOOL PRO-Cable Test, Wireless Tool, Link Tool, Full Duplex		
NET TOOL PRO	Detection, PING, IP Scan, DHCP Server, PPPOE, OUI Search, Socket		
	Tool, DNS, LLLDP.		
	Using the advanced multiplexing technique, the cable tracer and		
Cable tracer	cable test in the same interface. Find a connected cable from a		
	bundle of cables using audio tones		
PoE /PSE voltage	Measures PoE switch voltage and displays pin configuration		
test			
Digital Multi-meter	AC/DC Voltage, AC/DC current, Resistance, Capacitance, Data hold,		
*(Optional)	Relative measurement, Continuity testing. Testing speed: 3 times/		
	seconds, Data range -6600 ~ +6600.		
Optical power meter	Calibrated Wavelength(nm): 850/1300/1310/1490/1550/1625nm		
*(Optional)	Power range(dBm): -70 ~ +10dBm		
Visual fault locator	Test fiber's bending and breakage (SM and MM fiber)		
*(Optional)			

TDP coble test	BNC cable, network cable, telephone cable, RVV cable and elevator	
*(Optional)	cable, cat 5/6 cable's length and short circuit. measurement range	
*(Optional)	1.2KM	
	Through hardware high-speed sampling and processing technology,	
BNC attenuation test	test the BNC coaxial cable transmission attenuation value, detect the	
	transmission quality of BNC cable.	
POWER		
External power	DO 10//04	
supply DC 12V 2A		
Battery	Built-in 7.4V Lithium polymer battery, 7000 mAh	
Destaurable	Fasting charge, after charging 3.5 hours, normal working time 13	
Rechargeable	hours	
Parameter		
	Capacitive touch screen, OSD menu, select your desired language:	
Operation setting	English, Chinese, Korean, Russian, Italian or Polish, etc	
Auto off	1-30 (mins)	
General		
Working		
Temperature		
Working Humidity	30%-90%	
Dimension/Weight	264mm x 182mm x 43mm / 1Kg	

4.2 Multi-meter specifications

Counts: -6600 ~ +6600

Conversion rate: 3times/s

Current modes for clamp meter with ZERO function

Isolation: the Multi-meter connector must be isolated with the other connector.

DC voltage

Range	Accuracy	Resolution
660mV (Manual range)	± (0.3%+4)	0.1mV
6.600V		1mV
66.00V		10mV
660.0V		100mV

AC voltage

Range	Accuracy	Resolution
660.0mV (Manual range)	± (1.5%+6)	0.1mV
6.600V	± (0.8%+6)	1mV
66.00V		10mV
660.0V		100mV

DC current

Range	Accuracy	Resolution
6.600mA		1uA
66.00mA	± (0.5%+3)	10uA
660.0mA		100uA
10.00A	± (1%+5)	10mA

AC current

Range Accuracy	Resolution
----------------	------------

6.600mA		1uA
66.00mA	± (0.5%+3)	10uA
660.0mA		100uA
10.00A	± (1%+5)	10mA

Resistance

Range	Accuracy	Resolution
660.0Ω	± (0.8%+5)	0.1Ω
6.600ΚΩ	± (0.8%+2)	1Ω
66.00ΚΩ		10Ω
660.0KΩ		100Ω
6.600ΜΩ		1ΚΩ
66ΜΩ	± (1.2%+5)	10ΚΩ

⑦ Continuity

Range	Resolution	Function
660.0Ω	0.1Ω	The measurement value less $30\Omega \pm 3\Omega$, the tester will sound

Diode

Range	Resolution	Function
2.0V	1mV	Schottky diode:0.15~0.25V
		rectifier diode:0.6~1.0V
		triode PN junction:0.5~0.8V

Capacitance

Range Accuracy	Resolution
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6.600nF	± (0.5%+20)	1pF
66.00nF	± (3.5%+8)	10pF
660.0nF		100pF
6.600µF		1nF
66.00µF		10nF
660.0µF		100nF
6.600mF	± (5%+8)	1µF
66.00mF		10µF

4.3 Optical power meter specifications

Measure Range(dBm)	-70 ~ +10dBm
Wavelength(nm)	850nm,1300nm,1310nm,1490nm,1550nm,1625nm
Detector	InGaAs
	< ±3%dB(-10dBm,22°C)
Uncertainly	< ±5%dB(full range,22°C)
Display Resolution	Linear:0.1% ; Nonlinear:0.01dBm
Operating Temperature(°C)	-10 ~ +50
Storage Temperature (°C)	-20 ~ +70
Connector type	FC/PC

4.4 Visual fault locator specifications

Laser type	LD
Wavelength Calibration	650nm
Output power	5mW(Optional 10mW,20mW)
Modulation mode	CW/1Hz/2Hz

Measurement Range	5KM (Optional 10-20KM)
Connector	FC/PC exchangeable
Working Temperature	- 10°C ~ +50°C
Operating Temperature	-20℃ ~ +70℃

The data above is only for reference and any change of them will not be informed in advance. For more detailed technical inquiries, please feel free to call the Technical Department of our company.

FCC Warning Statement:

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation. Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

--Reorient or relocate the receiving antenna.

-- Increase the separation between the equipment and receiver

--Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

--Consult the dealer or an experienced radio/TV technician for help

NOTE: This device and its antenna(s) must not be co-located or operation in conjunction with

any other antenna or transmitter

RF Exposure Statement

To maintain compliance with FCC's RF Exposure guidelines, this equipment should be installed and operated with minimum distance of 5mm the radiator your body. This device and its antenna(s) must not be co-located or operation in conjunction with any other antenna nr transmitter.