



NVR

Quick Start Guide

Please read the Quick Start Guide fully before using the product and keep it for your records. Related tools and documents of products, please download from <http://www.spyclopsusa.com>.



Statement

Thank you for purchasing our products, if you have any questions about setup or product use, please contact support. This manual is used for NVR's.

Safety Precautions

1. Please modify default password immediately after the equipment is installed, to avoid unauthorized access.
2. Please do not place and install the equipment in direct sunlight or near heating equipment.
3. Please do not install the equipment in wet, dusty or locations with smoke.
4. Please keep the NVR installed level and secured to prevent the product from falling.
5. Do not drop or splash liquid onto the NVR and ensure that no liquid-filled items are placed on the device to prevent liquid from leaking into the device.
6. Please install the equipment in a well-ventilated area and do not block the vents of the equipment.
7. Please use the equipment within rated input/output range only.
8. Please do not disassemble the equipment without notifying supplier.
9. Please transport, use and store the equipment in climate controlled environment with regulated humidity and temperature.

About

This manual is used as a guide. Pictures, charts, images and all other information provided are for description and explanation only. This manual's product descriptions and illustrations may vary from the actual products purchased.

Due to future product software upgrades or other design changes, Metra may update this manual. Please visit the company's official website for the latest version (www.spyclopsusa.com).

NVR Quick Installation Guide

This NVR is convenient can be easily installed, plug and play and no complex setup needed.

Installation Preparation

Install NVR hard drive. Make sure all power is disconnected before installing. Installation tools: Phillips screwdriver

(Please use surveillance grade hard disk drive only to avoid poor drive performance)

(1) Unscrew the screws on the back and sides of the chassis and remove the cover.



(2) Connect one end of the hard disk power cable and SATA data cable to the motherboard and the other end to the hard disk.



(3) Align the hard disk screw holes to the chassis backplane, and then tighten the screws.



(4) Install the cover and re-attach with screws.



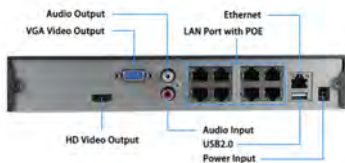
Note: Images for instruction use only, your unit may look different but use the same methods

Interface Description

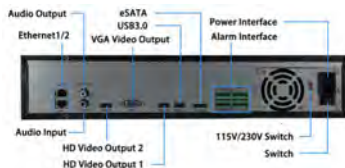
NVR Illustration

Icon	Name
	DC Power Input
	AC Power Input
	Power switch
	VGA
	HDMI
	Ethernet WAN/LAN
	USB
A-IN	Audio Input
A-OUT	Audio Output
Alarm-IN	Alarm In
Alarm-OUT	Alarm Out
RS485	RS485
RS232	RS232

PoE NVR rear panel



Non-PoE NVR rear panel



NVR rear panel interface is similar with pictures above, but the product appearance, including buttons, interfaces and layout are for reference only and may differ from the product you have purchased.

Local Basic Operation

Boot Up

Make sure the input voltage matches the NVR consumption. Connect the device to the monitor and to the power adapter (if available). Plug in the power, switch on the power button (if available), then the device will boot up.

NOTE:

1. It is recommended that you use only the included power supply.
2. You should reset the device administrator password (the system default username is "admin" and the password is "12345") when booting for the first time. To ensure the security of the device, please save the admin login password and modify it regularly.

Modify Password

Step 1: After the device is powered on, select the system language, click "Apply", enter the password, click "Login", click "Modify".

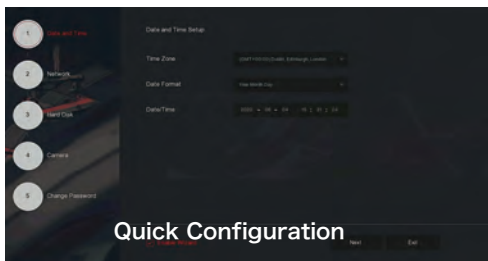
Step 2: Enter the new password and confirm password, tick off the "Unlock Pattern" to draw twice the consistent unlock pattern consisting of 4-9 points.

Step 3: Set the security question, select the security question 1, 2, 3 by the pull-down operation, and set the answer to the corresponding security question.

Step 4: Insert the USB flash drive into the device, and click "Export Key > Confirm > Save". The password is changed.

Quick Configuration

After the device is powered on, the user can configure the system time, network configuration, format hard disk, channel addition and other parameters of the device through the Wizard.



NOTE:

The hard disk must be formatted when installing it for the first time.

Network Configuration

Network parameters must be properly configured before operating the device over the network.

Step 1: On the preview interface, right-click to enter the menu, and click "⚙️ TCP/IP".

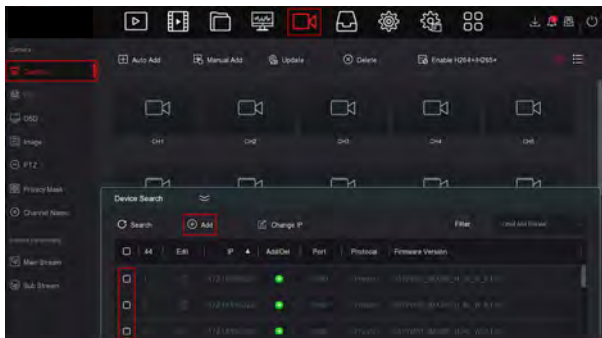
Step 2: Modify the IP address of the device according to the actual network plan. (The default IP address of the NVR is 192.168.1.88).



Add IP Device

Before accessing the IP channel, make sure that the NVR network connection is correct and valid. Step 1: On the preview interface, right-click to enter the menu, and click "Add".

Step 2: Add IP camera automatically or manually. Automatically added, click "Auto add" button. Manually added, click "Search", the Device Search interface automatically searches for the devices in the LAN with the "Onvif And Private" protocol (if using our IP camera, recommend selecting "Private"), select the IP device to be added, and click "Add".



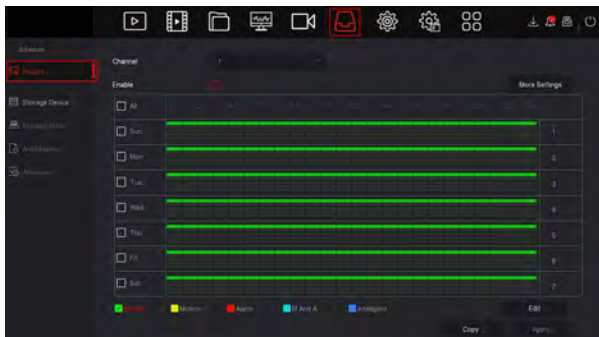
Recording Configuration

NOTE:

NVR opens all channels for 24 hours of normal recording by default.

Step 1: On the preview interface, right-click to enter the menu, and click "Recording".

Step 2: Select the channel and recording type according to the actual needs. Hold down the left mouse button and drag the mouse in the time period diagram or click "Edit" to set the recording schedule, and click "Apply" to save.



Playback

Instant playback

Step 1: On the preview interface, click the preview channel, the control bar will pop up below the channel.

Step 2: Click  to enter the instant playback interface, can play the first 5 minutes of the current channel video.

Video playback

Step 1: On the preview interface, right-click to enter the menu, and click .

Step 2: Select "Channel > Date", the searched video is displayed on the time progress bar, click  to start playing the video.

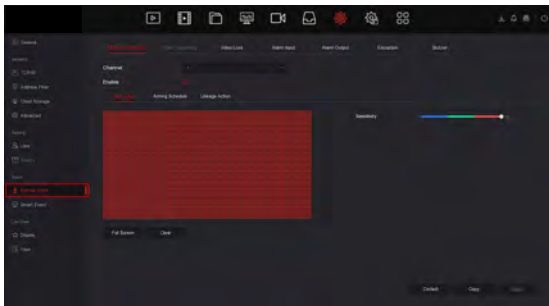


Note: Images for instruction use only, your unit may look different but use the same methods

Normal Event

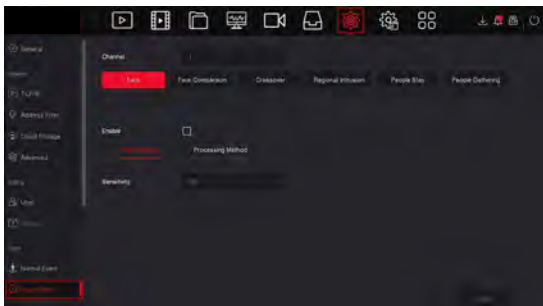
Step 1: On the preview interface, right-click to enter the menu, and click "  > Normal Event" to enter the Motion detection interface.

Step 2: Choose "Event Type > Channel > Enable" and set the corresponding alarm parameters. The device's normal event alarms include Motion Detection, Video Tampering, Video Loss, Alarm Input, Alarm Output, Exception, and Buzzer.



Smart Event

Step 1: On the preview interface, right-click to enter the menu, and click "  " Smart Event" to enter the Smart Event-Face interface.



Step 2: Select the smart event alarm mode for setting the channel. Smart event alarms supported by the device include Human, Face, Face Comparison. Each detection can be configured with different alarm processing rules.

NOTE:

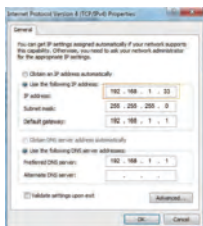
1. Only IPC channels that support smart functions such as face detection and face comparison can set smart event function on this interface.
2. Each channel of a smart event can set up to 1 face detection rule, 4 crossover detection rules, 4 regional intrusion rules, 4 people stay detection rules, and 4 people gathering rules.

Note: Images for instruction use only, your unit may look different but use the same methods

Browser NVR Login

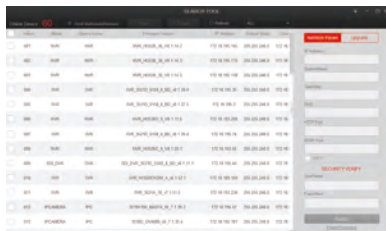
1. Login to NVR on LAN (PC & NVR connected to same router LAN)

1. Make sure the NVR and the connected PC (computer) are in the same segment. If not, please set IP address of your PC to the same segment as the XVR's, for example '192.168.1.33', but it must be different IP as the XVR's. (Note: NVR default IP address is 192.168.1.88).
2. Open IE (Internet Explorer) browser, Select Tools > Internet Options > Safety > customized.
3. Open "Search Tool", double-click the target device from the search result to enter the login interface, or open the IE browser to enter the NVR address: such as http://192.168.1.88/ (If port 80 of the NVR is changed, you need to add the changed port) to enter the login interface.
4. On login interface, login to NVR (Notes: Default user: "admin", password: "12345").
5. Web page live view for NVR. On "Live Video" interface, click "Play" icon to play video.



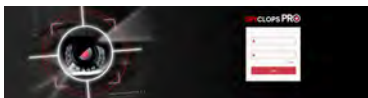
1

(Search Tool)



3

First connection will need to download and install



4



5-1



5-2

Mobile App Access

Download and install SpyclopsPRO on a smart phone or tablet using either option below:

1. On the Android App Store or iPhone App Store enter "SpyclopsPro" search, download and install.
2. Scan the following QR codes to download and install the App.

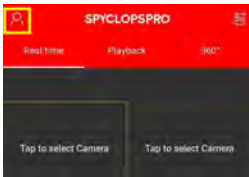


Android

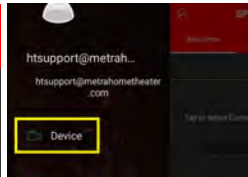


iOS

Run the SpyclopsPRO App (new users need to register an account to log in first). The steps to add devices are as follows: To add with LAN Search method follow steps 1 - 9.2 and for QR scan replace 5.1 - 7.1 with 5.2 - 6.2.



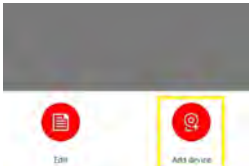
1



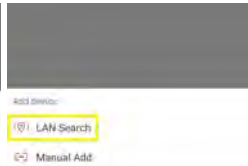
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3



4



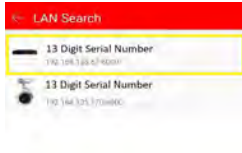
5.1



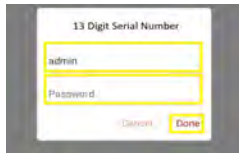
6.1



7.1



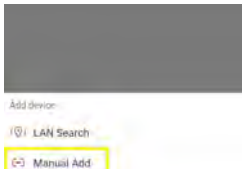
8.1



9.1



9.2



5.2

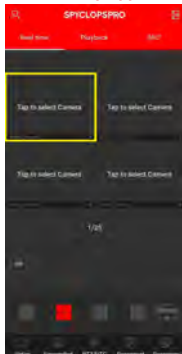


6.2

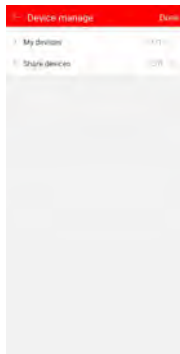
1. Tap  in the upper left menu
2. Tap "Device";
3. Tap  in the upper right menu bar;
4. Tap "Add device"
- 5.1 Tap LAN Search menu
- 6.1 Tap LAN Search button 7.1

- 8.1 Tap the device you would like to add
- 9.1 Enter the username and password and tap Done.
- 9.2 Enter your choice of Device name, select the group you would like to add to and tap "Finish" in the upper right. The device will now be found in "My Devices"
- 5.2 Tap "Manual Add"
- 6.2 Enter Serial Number manually (Or tap scan icon in upper right and scan SN QR code on label), Your choice of Device name, Username, Password and Tap Save.

How to setup app for live



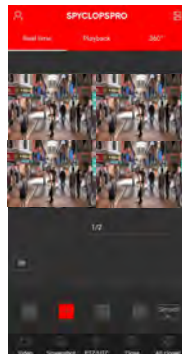
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2



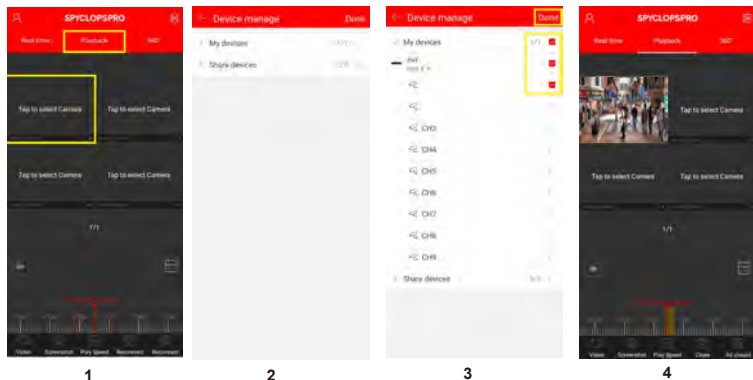
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4

1. Tap "Tap to select Camera"
2. Tap "My devices"
3. Tap the check box for the NVR/XVR to add all cameras or tap individual cameras and tap "Done"
4. Enjoy your live view cameras!

How to playback recorded videos with app



1. Tap "Tap to select Camera"
 2. Tap "My devices"
 3. Tap the check box for the camera to view recorded videos and tap "Done"
 4. Swipe left or right on the time line to change the recording time view.
- Note: Green bars are recording from schedule and Red is from motion detection.

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16 CHANNEL POE 4K NVR

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CELEBRATING
70
YEARS
OF INNOVATION



SPYCLOPS^{PRO} SPYP-NVR16POE 16 CHANNEL POE 4K NVR

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Free App for
Remote Viewing

PRODUCT OVERVIEW

Record video surveillance in resolutions up to 8MP 4K for each channel with the Spyclops PRO 16-channel NVR. This Network Video Recorder supports H.265 & H.265+ for maximum video storage efficiency and the HDD bay supports up to 8TB. The NVR has VGA and HDMI® outputs and uses 16-channel Power over Ethernet (PoE) LAN port connections. Connect to view and play back from any iOS or Android mobile device or Windows PC. Compatible with Spyclops cameras.

- (16) PoE LAN ports for direct camera connection
- Add up to 9 additional cameras connected to the same LAN for a maximum of 25 channels of recording
- (2) USB 2.0 ports for mouse & backup
- Up to 8MP 4K recording resolution: 4k@12CHx30fp, 5MP@20CHx30fp, 4MP@25CH x30fp, 3MP@25CHx30fp, 1080P@25CHx30fp, 960P@25CHx30fp, 720P@25CHx30fp, D1@25CHx30fp
- Playback resolution: 1CH 4K@30fps, 1CH 5MP@30fps, 2CH 4MP@30fps, 2CH 3M@30fps, 4CH 1080P@30fps, 4CH 960P@30fps, 4CH 720P@30fps
- Playback functions: Play, Pause, Stop, Rewind, Fast play, Slow Play, Full Screen, Frame Play, Frame Rewind, Digital Zoom
- Record modes: Manual\Timer\Motion Detection\Smart Alarm
- (1) VGA and (1) HDMI® outputs
- Free remote viewing app for Android and iOS
- (1) SATA port - supports up to 8TB
- Supports H.264, H.264+, H.265 & H.265+ for maximum video storage
- ONVIF Version support: 2.8
- Includes power cable, USB mouse & quick start guide

NOTE: Hard drive not included. Surveillance grade hard drives available separately. 1TB SPY-SG1TB, 2TB SPY-SG2TB, 4TB, SPYSG4TB, 6TB SPY-SG6TB & 8TB SPY-SG8TB



WARNING:
Cancer and Reproductive Harm
www.P65Warnings.ca.gov.



SPECIFICATIONS	
Model NO.	SPYP-NVR16POE
System	
Main Processor	ARM Cortex A7 Processor
Operating System	Embedded LINUX
Video	
Input	25CH (3840×2160, 2592×1944, 2048×1536, 1920×1080, 1280×960, 1280×720, etc)
Output	1 VGA, 1 HD
Audio	
Input	1 Port RCA
Output	1 Port RCA(Linear, 1kΩ)
Audio Bit Rate	64kbps
Audio Compression standard	G711u, G711a, ADPCM_DVI4
Alarm	
Sensor Input	0
Output	0
Motion Detection	25 Channel, MD Zones: 396 (22 × 18)
Trigger Events	Recording, Email, FTP, Snapshot, Buzzer and Screen Tips
Display	
HD Output1	Resolution:4K (3840 × 2160)/30Hz, 1920 × 1080/60Hz, 1280 × 1024/60Hz, 1280 × 720/60Hz, 1024 × 768/60Hz
HD Output2	/
VGA	Resolution:1920 × 1080/60Hz, 1280 × 1024/60Hz, 1280 × 720/60Hz, 1024 × 768/60Hz
Display Split	25CHxD1/16CHxD1/9CHxD1/4CHxD1/1CHx1080P/1CHx3MP/1CHx4MP/1CHx5MP/1CHx4k/1CHx12MP
Digital Zoom	YES
OSD	Camera Title, Time, Recording, Motion Detection, Event Alarm
Recording	
Video Compression	H265/H264/H265+/H264+
Resolution	4k(3840×2160),5MP(2592×1944),4MP(2688×1520/2560×1440),3MP(2048×1536),1080P(1920×1080),960P(1280×960),720P(1280×720),D1 (720×576/720×480)
Record Rate	PAL :4k@12×25fp,5MP@20×25fp,4MP@25x25fp,3MP@25×25fp,1080P@25×25fp, 960P@25×25fp,720P@25×25fp, D1@25×25fp NTSC: 4k@12×30fp,5MP@20×30fp,4MP@25×30fp,3MP@25×30fp,1080P@25×30fp, 960P@25×30fp, 720P@25×30fp, D1@25×30fp
Record Mode	Manual\Timer\Motion Detection\Smart Alarm
Playback & Backup	
Local Sync Playback	1CH 4K@30fps, 1CH 5MP@30fps,2CH 4MP@30fps, 2CH 3M@30fps, 4CH 1080P@30fps, 4CH 960P@30fps, 4CH 720P@30fps
Decode Capability	1CH 4K(3840×2160)@30fps
Remote Sync Playback	YES
Search Mode	ALL, Channel, Manual, Time, Date, Motion Detection,Event Alarm
Playback Functions	Play, Pause, Stop, Rewind, Fast play, Slow Play, Full Screen, Frame Play ,Frame Rewind, Digital Zoom
Backup Mode	USB Device/Network
Network	
Interface	16 x RJ45 (10M/100M Adaptive Ethernet Interface)+1xRJ45 10M/100M/1000M Adaptive Ethernet Interface
Incoming Bandwidth	120MB
Network Functions	TCP/IP, HTTP, UPnP, DNS, NTP, SMTP, DHCP, FTP, DDNS, RTSP, RTCP, p2p
Onvif Version	Support Onvif 2.8
Web Browser	IE8-11, Google Chrome (lower than Ver44), Firefox (lower than Ver53)
CMS Software	Support Windows 7/ Windows 8/Windows 10/MAC OS
Cloud Support(P2P)	Yes: SPYCLOPS PRO APP
Smart Phone	iPhone, iPad, Android, Android Pad
POE	16 x Independent 100Mbps POE Network Interfaces(Output PowerAT mode 30W, AF mode 15W per Interface), 45/78 line order, Total Power Output ≧ 200W, Support Plug and Play, Support network cable extended mode Max. 250M
WIFI	/
Storage	
Interface Type	1 SATA Hard Disk Interface (3.5" SATA)
Capacity	Up to 8TB capacity
eSATA	/
General	
Language	English, French, Spanish
USB Interface	2 USB 2.0 Interfaces
RS485	/
Power Supply	AC 100-240V
Working Environment	-10~55℃/10~90%
Dimension(W×D×H)	310*295*46(mm)
Weight	2.0Kg (without HDD)

