HIKVISION

DS-3WF0AC-2NT
Quick Start Guide

See Far, Go Further

Quick Start Guide

COPYRIGHT ©2019 Hangzhou Hikvision Digital Technology Co., Ltd.

ALL RIGHTS RESERVED.

Any and all information, including, among others, wordings, pictures, graphs are the properties of Hangzhou Hikvision Digital Technology Co., Ltd. or its subsidiaries (hereinafter referred to be "Hikvision"). This user manual (hereinafter referred to be "the Manual") cannot be reproduced, changed, translated, or distributed, partially or wholly, by any means, without the prior written permission of Hikvision. Unless otherwise stipulated, Hikvision does not make any warranties, guarantees or representations, express or implied, regarding to the Manual.

About this Manual

This Manual is applicable to DS-3WF0AC-2NT.

The Manual includes instructions for using and managing the product. Pictures, charts, images and all other information hereinafter are for description and explanation only. The information contained in the Manual is subject to change, without notice, due to firmware updates or other reasons. Please find the latest version in the company website (http://overseas.hikvision.com/en/).

Please use this user manual under the guidance of professionals.

Trademarks Acknowledgement

HIKVISION and other Hikvision's trademarks and logos are the properties of Hikvision in various jurisdictions. Other trademarks and logos mentioned below are the properties of their respective owners.

Legal Disclaimer

TO THE MAXIMUM EXTENT PERMITTED BY APPLICABLE LAW, THE PRODUCT DESCRIBED, WITH ITS HARDWARE, SOFTWARE AND FIRMWARE, IS PROVIDED "AS IS", WITH ALL FAULTS AND ERRORS, AND HIKVISION MAKES NO WARRANTIES, EXPRESS OR IMPLIED, INCLUDING WITHOUT LIMITATION, MERCHANTABILITY, SATISFACTORY QUALITY, FITNESS FOR A PARTICULAR PURPOSE, AND NON-INFRINGEMENT OF THIRD PARTY. IN NO EVENT WILL HIKVISION, ITS DIRECTORS, OFFICERS, EMPLOYEES, OR AGENTS BE LIABLE TO YOU FOR ANY SPECIAL, CONSEQUENTIAL, INCIDENTAL, OR INDIRECT DAMAGES, INCLUDING, AMONG OTHERS, DAMAGES FOR LOSS OF BUSINESS PROFITS, BUSINESS INTERRUPTION, OR LOSS OF DATA OR DOCUMENTATION, IN CONNECTION WITH THE USE OF THIS PRODUCT, EVEN IF HIKVISION HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

REGARDING TO THE PRODUCT WITH INTERNET ACCESS, THE USE OF PRODUCT SHALL BE WHOLLY AT YOUR OWN RISKS. HIKVISION SHALL NOT TAKE ANY RESPONSIBILITES FOR ABNORMAL OPERATION, PRIVACY LEAKAGE OR OTHER DAMAGES RESULTING FROM CYBER ATTACK, HACKER ATTACK, VIRUS INSPECTION, OR OTHER INTERNET SECURITY RISKS; HOWEVER, HIKVISION WILL PROVIDE TIMELY TECHNICAL SUPPORT IF REQUIRED.

SURVEILLANCE LAWS VARY BY JURISDICTION. PLEASE CHECK ALL RELEVANT LAWS IN YOUR JURISDICTION BEFORE USING THIS PRODUCT IN ORDER TO ENSURE THAT YOUR USE CONFORMS THE APPLICABLE LAW. HIKVISION SHALL NOT BE LIABLE IN THE EVENT THAT THIS PRODUCT IS USED WITH ILLEGITIMATE PURPOSES.

IN THE EVENT OF ANY CONFLICTS BETWEEN THIS MANUAL AND THE APPLICABLE LAW, THE LATER PREVAILS.

Regulatory Information

FCC Information

Please take attention that changes or modification not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

FCC compliance: This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

FCC Conditions

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.

2. This device must accept any interference received, including interference that may cause undesired operation.

EU Conformity Statement

This product and - if applicable - the supplied accessories too are marked with "CE" and comply therefore with the applicable harmonized European standards listed under the EMC Directive 2014/30/EU, the LVD Directive 2014/35/EU, the RoHS Directive 2011/65/EU.

2012/19/EU (WEEE directive): Products marked with this symbol cannot be disposed of as unsorted municipal waste in the European Union. For proper recycling, return this product to your local supplier upon the purchase of equivalent new equipment, or dispose of it at designated collection points. For more information see: www.recyclethis.info

2006/66/EC (battery directive): This product contains a battery that cannot be disposed of as unsorted municipal waste in the European Union. See the product documentation for specific battery information. The battery is marked with this symbol, which may include lettering to indicate cadmium (Cd), lead (Pb), or mercury (Hg). For proper recycling, return the battery to your supplier or to a designated collection point. For more information see: www.recyclethis.info

Applicable Models

This manual is applicable to DS-3WF0AC-2NT.

Symbol Conventions

The symbols that may be found in this document are defined as follows.

Symbol	Description
NOTE	Provides additional information to emphasize or supplement important points of the main text.
WARNING	Indicates a potentially hazardous situation, which if not avoided, could result in equipment damage, data loss, performance degradation, or unexpected results.
DANGER	Indicates a hazard with a high level of risk, which if not avoided, will result in death or serious injury.

WARNING

- During the installation and utilization of the device, please strictly conform to electrical safety rules in different nations and regions.
- You shall acknowledge that the use of the device with Internet access might be under network security risks, please strengthen protection for your personal information and data security. If you find the device might be under network security risks, please contact with us.

Packing List

Wireless bridge x 2
PoE injector x 2
Power adapter x 2
Screw x 4
Expansion bolt x 4
Strap x 2
Quick start guide x 1

If any accessories are damaged or lost, keep the package intact and contact your dealer for replacement.

1 Getting to know the devices

AP device



CPE device



LED indicators

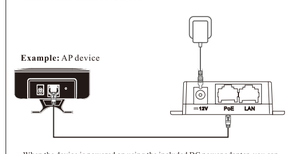
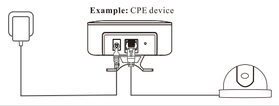


LED indicators are used to monitor the status of devices. See the following table for the description of the LED indicators.

Indicator	Status	Description
PWR	Solid on	The power is supplied to the device properly.
	Off	No power is supplied to the device.
LAN	Solid on	No data is being transmitted over the port.
	Blinking	Data is being transmitted over the port.
	Off	The port is not connected, or not connected properly to an Ethernet device.
LED1/LED2/LED3	Solid on	Bridged successfully. • LED1, LED2 and LED3 are solid on: Good signal • LED1 and LED2 are solid on, and LED3 is off: Fair signal • LED1 is solid on, and LED2 and LED3 are off: Weak signal. Please adjust the direction or location of your devices.
	Off	The received signal strength does not reach the minimum threshold of the signal strength LED indicator.

Port/Button



SN	Port/Button	Description
①	⎓ 12V	Power jack. Use the included power adapter to connect this jack to a power source for power supply.
②	POE/LAN	This port is used to supply power over the Ethernet cable and transmit data. • To supply power to the device over the Ethernet cable, connect this port to the PoE port of the included PoE injector. **Example:** AP device  • When the device is powered on using the included DC power adapter, you can connect this port to an Ethernet device for data transmission. **Example:** CPE device 
③	Reset	Reset Button. After the device is powered on for about 1 minute, hold down this button for about 8 seconds. When all the LED indicators on the device light up, the device is restored to factory settings.

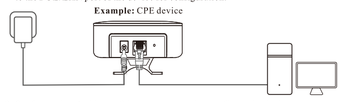
2 Login and activating the devices

NOTE

Only when being activated can the pair of the devices in the box automatically connect to each other.

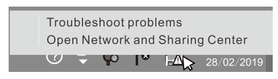
Step 1: Use the included power adapter to supply power to the device, and connect a computer to the **POE/LAN** port of the device for configuration.

Example: CPE device

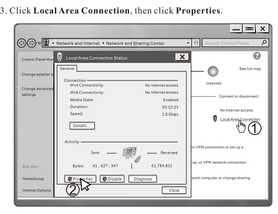


Step 2: Configure the IP address of the computer used to configure the device.
OS example: Windows 7

1. Right-click the icon on the lower right corner of the desktop.
2. Click **Open Network and Sharing Center**.



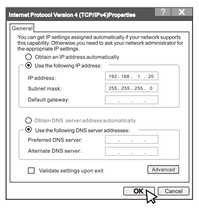
3. Click **Local Area Connection**, then click **Properties**.



4. Double-click **Internet Protocol Version 4 (TCP/IPv4)**.



5. Select **Use the following IP address**, set the **IP address** to **192.168.1.***X* (*X* ranges from 2 to 253, excluding 35 and 36), the **Subnet mask** to **255.255.255.0**, and click **OK**.



6. Click **OK** on the **Local Area Connection Properties** window, and close the other windows.

Step 3: Log in to the web UI of the device.
1. Start a web browser, and visit **192.168.1.36** (**192.168.1.35** for the AP device).
2. Customize a login password which should be consisted of 8 to 16 characters combined with digits, letters, and special characters, and enter it again.
3. Select your country or region.
4. Check the **TERMS OF USE** and select **I agree to these terms of use**.
5. Click **Activate**.



NOTE

After installation, you can follow the steps above to log in to the web UI using the login password you set, and configure the device as required.

Step 4: Perform **Step 1** to **Step 3** to activate the other device in the box.

Step 5: After the two devices are activated, power them on at the same time and they will connect to each other automatically.

When the LED1, LED2, and LED3 indicators of the two devices are solid on, the bridging is successful.

3 Installing the devices

Step 1: Thread the straps across the holes on the rear panel of the device. (Refer to Figure 1)
Step 2: Attach the device onto the selected pole, adjust the direction or location of the device, and tighten the straps to fix the device. (Refer to Figure 2)



Figure 1

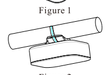
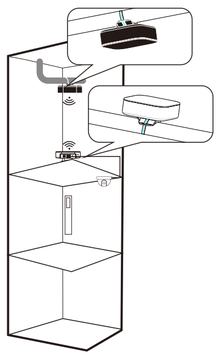


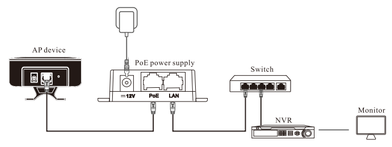
Figure 2

The installation diagram is shown as follows:

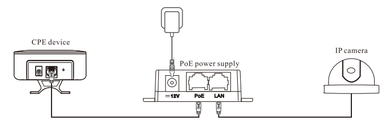


4 Connecting the devices

■ **Hardware connection of AP device** (Example: Power the device through the PoE injector)
Connect the AP device to a switch in the monitor center.

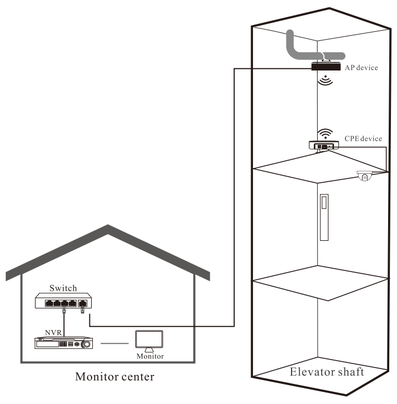


■ **Hardware connection of CPE device** (Example: Power the device through the PoE injector)
Connect the CPE device to an IP camera.

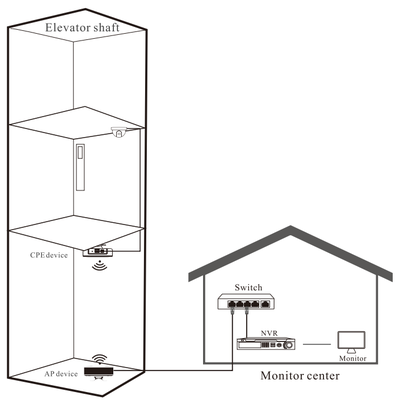


Deploy the devices according to the location of monitor center.

Scenario 1



Scenario 2



FAQ

Q1: I cannot log in to the web UI of the device by entering 192.168.1.35 or 192.168.1.36. What should I do?
Try the following methods and try again:
- Ensure that the device has been connected to a power supply and the computer properly.
- Ensure that the IP address of the login computer is 192.168.1.*X* (*X* ranges from 2 to 254, excluding 35 and 36).
- Reset the device to factory settings.

Q2: How to reset the device to factory settings?
Note: Resetting the device will clear all settings, and you need to configure it again.
Method One: 1 minute after the device is powered on, hold down the **Reset** button for about 8 seconds. When all LED indicators light up, the device is restored to factory settings.
Method Two: Log in to the web UI of the device, choose **System > Maintenance**, and click the **Reset** button.

Q3: How to determine whether the bridging signal is optimal when the devices are used for CCTV surveillance?
Method One: Observe the LED indicators of the two devices. The bridging signal is at its best when all of the LED1, LED2 and LED3 indicators are solid on.
Method Two: Log in to the web UI of one device, choose **Status > Peer Device** to check the bridging information. Stronger signal strength (-60 dBm is better than -70 dBm), less background noise (-100 dBm is better than -90 dBm), and faster transmitted/received rate lead to better bridging signal.

Q4: After the installation succeeds, the monitors connected to the NVR cannot display the surveillance videos. What should I do?
Try the following solutions:
- Check if all devices are connected properly and work normally.
- Ensure that the IP addresses of computer, NVR, and IP cameras are in the same network segment.
- If the preceding check is normal, it indicates the connections are properly. Please check if configurations of the NVR or the IP cameras are correct, a broadcast storm occurs or VLANs are assigned in your network.

Environment requirement

Operating temperature	-30°C - 55°C
Operating humidity	(10% - 90%) RH, non-condensing
Storage temperature	-30°C - 70°C
Storage humidity	(5% - 90%) RH, non-condensing

Caution:

Adapter Model: BN036-A12012E, BN036-A12012B
Manufacture: SHENZHEN HEWEISHUN NETWORK TECHNOLOGY CO., LTD.
Input: 100-240V AC, 50/60Hz 0.4A
Output: 12V DC, 1.0A
⎓: DC Voltage