



## **Smart On-Street ANPR Camera**

**Quick Start Guide**

©2021 Hangzhou Hikvision Digital Technology Co., Ltd. All rights reserved.

## About this Manual

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 of this Manual at the Hikvision website (<https://www.hikvision.com/>).

Please use this Manual with the guidance and assistance of professionals trained in supporting the Product.

## Trademarks

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

## Disclaimer

TO THE MAXIMUM EXTENT PERMITTED BY APPLICABLE LAW, THIS MANUAL AND THE PRODUCT DESCRIBED, WITH ITS HARDWARE, SOFTWARE AND FIRMWARE, ARE PROVIDED "AS IS" AND "WITH ALL FAULTS AND ERRORS". HIKVISION MAKES NO WARRANTIES, EXPRESS OR IMPLIED, INCLUDING WITHOUT LIMITATION, MERCHANTABILITY, SATISFACTORY QUALITY, OR FITNESS FOR A PARTICULAR PURPOSE. THE USE OF THE PRODUCT BY YOU IS AT YOUR OWN RISK. IN NO EVENT WILL HIKVISION 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, CORRUPTION OF SYSTEMS, OR LOSS OF DOCUMENTATION, WHETHER BASED ON BREACH OF CONTRACT, TORT (INCLUDING NEGLIGENCE), PRODUCT LIABILITY, OR OTHERWISE, IN CONNECTION WITH THE USE OF THE PRODUCT, EVEN IF HIKVISION HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES OR LOSS.

YOU ACKNOWLEDGE THAT THE NATURE OF THE INTERNET PROVIDES FOR INHERENT SECURITY RISKS, AND HIKVISION SHALL NOT TAKE ANY RESPONSIBILITIES FOR ABNORMAL OPERATION, PRIVACY LEAKAGE OR OTHER DAMAGES RESULTING FROM CYBER-ATTACK, HACKER ATTACK, VIRUS INFECTION, OR OTHER INTERNET SECURITY RISKS; HOWEVER, HIKVISION WILL PROVIDE TIMELY TECHNICAL SUPPORT IF REQUIRED.

YOU AGREE TO USE THIS PRODUCT IN COMPLIANCE WITH ALL APPLICABLE LAWS, AND YOU ARE SOLELY RESPONSIBLE FOR ENSURING THAT YOUR USE CONFORMS TO THE APPLICABLE LAW. ESPECIALLY, YOU ARE RESPONSIBLE, FOR USING THIS PRODUCT IN A MANNER THAT DOES NOT INFRINGE ON THE RIGHTS OF THIRD PARTIES, INCLUDING WITHOUT LIMITATION, RIGHTS OF PUBLICITY, INTELLECTUAL PROPERTY RIGHTS, OR DATA PROTECTION AND OTHER PRIVACY RIGHTS. YOU SHALL NOT USE THIS PRODUCT FOR ANY PROHIBITED END-USES, INCLUDING THE DEVELOPMENT OR PRODUCTION OF WEAPONS OF MASS DESTRUCTION, THE DEVELOPMENT OR PRODUCTION OF CHEMICAL OR BIOLOGICAL WEAPONS, ANY ACTIVITIES IN THE CONTEXT RELATED TO ANY NUCLEAR EXPLOSIVE OR UNSAFE NUCLEAR FUEL-CYCLE, OR IN SUPPORT OF HUMAN RIGHTS ABUSES.

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

### **Safety Instructions**

- This is a class A product and may cause radio interference in which case the user may be required to take adequate measures.
- Use of the product must be in strict compliance with the local laws and regulations. Please shut down the device in prohibited area.
- Use of the product must be in strict compliance with the local electrical safety regulations.
- Use the power adapter provided by qualified manufacturer. Refer to the product specification for detailed power requirements.
- It is recommended to provide independent power adapter for each device as adapter overload may cause over-heating or a fire hazard.
- Make sure that the power has been disconnected before you wire, install, or disassemble the device in the authorized way according to the description in the manual.
- To avoid electric shock, DO NOT directly touch exposed contacts and components once the device is powered up.
- DO NOT use damaged power supply devices (e.g., cable, power adapter, etc.) to avoid electric shock, fire hazard, and explosion.
- DO NOT directly cut the power supply to shut down the device. Please shut down the device normally and then unplug the power cord to avoid

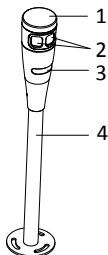
data loss.

- The socket-outlet shall be installed near the equipment and shall be easily accessible.
- Make sure the power supply has been disconnected if the power adapter is idle.
- Connect to earth before connecting to the power supply.
- To avoid heat accumulation, good ventilation is required for a proper operating environment.
- Store the device in dry, well-ventilated, corrosive-gas-free, no direct sunlight, and no heating source environment.
- Avoid fire, water, and explosive environment when using the device.
- Install the device in such a way that lightning strikes can be avoided. Provide a surge suppressor at the inlet opening of the equipment under special conditions such as the mountain top, iron tower, and forest.
- Keep the device away from magnetic interference.
- Avoid device installation on vibratory surfaces or places. Failure to comply with this may cause device damage.
- DO NOT touch the heat dissipation component to avoid burns.
- DO NOT expose the device to extremely hot, cold, or humidity environments. For temperature and humidity requirements, see device specification.
- No naked flame sources, such as lighted candles, should be placed on the equipment.
- DO NOT touch the sharp edges or corners.
- To prevent possible hearing damage, DO NOT listen at high volume levels for long periods.
- If smoke, odor, or noise arises from the device, immediately turn off the power, unplug the power cable, and contact the service center.
- If the device cannot work properly, contact the store you purchased it or the nearest service center. DO NOT disassemble or modify the device in the unauthorized way (For the problems caused by unauthorized modification or maintenance, the company shall not take any responsibility).
- Keep all packaging after unpacking them for future use. In case of any failure occurred, you need to return the device to the factory with the

original packaging. Transportation without the original packaging may result in damage to the device and the company shall not take any responsibility.

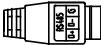



- Please enforce the protection for the personal information and the data security as the device may be confronted with the network security problems when it is connected to the Internet. Contact us if network security risks occur.
- Please understand that you have the responsibility to configure all the passwords and other security settings about the device, and keep your user name and password.
- DO NOT touch the lens with fingers directly in case the acidic sweat of the fingers erodes the surface coating of the lens.
- DO NOT aim the lens at the strong light such as sun or incandescent lamp. The strong light can cause fatal damage to the device.
- DO NOT disconnect the power during formatting, uploading, and downloading. Or files may be damaged.

## Appearance



No.	Description	No.	Description
1	Status indicator	3	Supplement light
2	Camera	4	Column mount

## Cable Overview

Interface	Description	Interface	Description
	RS-485 interface		Network interface
	UART debugging interface		Power input

### Warning:

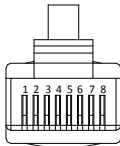
The network interfaces are dedicated non-standard PoE network interfaces. You are not allowed to connect them to normal devices to avoid burning the normal devices.

## Connect Network Cable

Follow the No. on the figure below to connect the network interfaces of the device to the switch via twisted pair.

### **Warning:**

Incorrect cable order will burn the device and power supply.



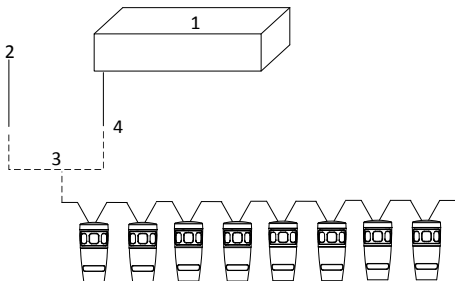
No.	Color	No.	Color
1	Light orange	5	Light blue
2	Orange	6	Green
3	Light green	7	Light brown
4	Blue	8	Brown

## Hand-in-Hand Cascade

Connect the devices in hand-in-hand cascade mode to the switch and power supply via combiner patch cord. 2-channel cascade is supported in the environment of 100 M network and 48 VDC power supply. Up to 8 single-lens devices and 6 dual-lens devices can be connected in cascade for each channel.

### **Warning:**

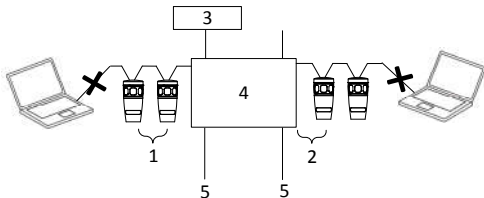
- The PoE interface of the device does not comply with Limited Power Source. The device which is provided power by the PoE interface shall be equipped with a fire-retardant enclosure.
- The cascade distance for devices is up to 100 m.
- It is recommended to use 1000 M network for video transmission.



No.	Description	No.	Description
1	Switch	3	Combiner patch cord
2	Power cord (48 VDC)	4	Network cable

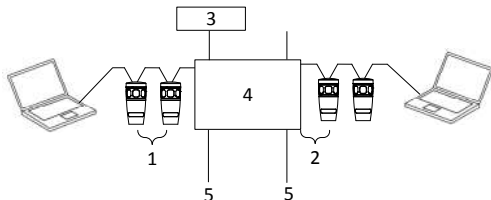
## Power Supply Mode

48 VDC





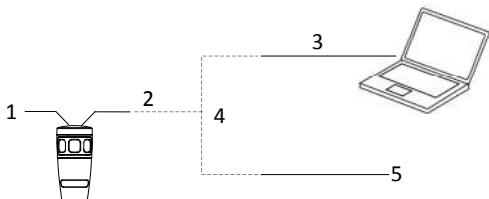
## 24 VDC



No.	Description	No.	Description
1	The distance between two devices (L1)	4	Cabinet (48 VDC/24 VDC power supply + 100 M/1000 M switch + combiner cable)
2	The distance between the device and cabinet (L2)	5	Network cable (< 100 m, 220 VAC)
3	1000 M switch	/	/

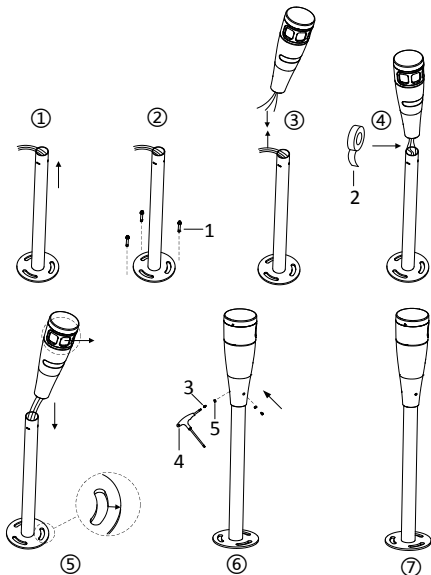
**Note:**

The number of the cascaded devices of each channel depends on L1 and L2.

**Debug Wiring**

No.	Description	No.	Description
1	PoE interface	4	Combiner patch cord
2	Network interface	5	Power connector with insulating tape
3	Network cable	/	/

## Installation



No.	Description	No.	Description
1	M8 expansion bolt	4	T20 wrench
2	Insulating tape	5	M4 nut
3	M4 screw	/	/

**Note:**

- Align the front direction of the camera to the arrow direction on the column mount base.
- Never place the equipment in an unstable location. The equipment may fall, causing serious personal injury or death. Install safety protection equipment if necessary. Check regularly.

### Activation and Login





See Far, Go Further

UD24373B-A