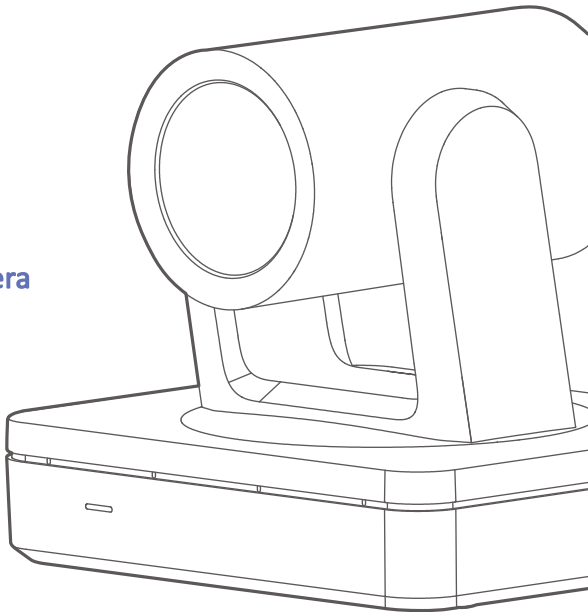


HIKVISION

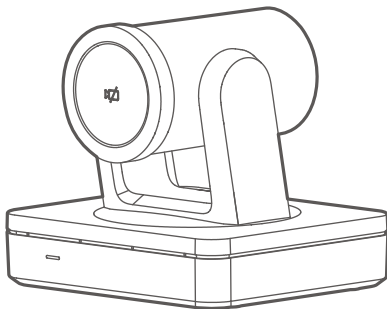
Auto Tracking PTZ Camera

User Manual





Packing List



Camera



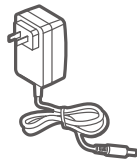
Remote Control



Battery



Quick Start Guide



Power Adapter



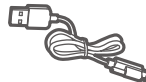
Adapter Extension Cable



Bracket



Screw Pack

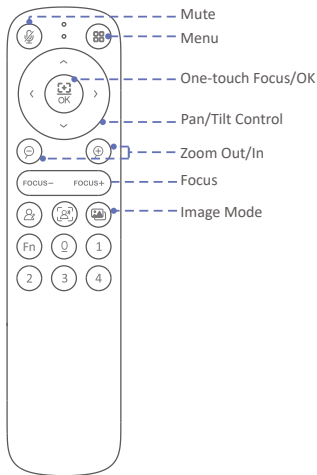


USB Cable



Functions

	Enable/disable the pickup function of the microphone, including the microphone pickup of the camera and other microphone devices (if any) connected through the line-in interface. The pickup function is enabled by default.
	Press the button to enter/exit the menu adjustment page.
	- In the menu adjustment page, press the button to enter the submenu page/confirm parameter settings. - Outside the menu adjustment page, press the button to focus the device once. Press and hold the button for 3 seconds to switch between auto focus (default)/semi-auto focus. * After long-press to switch the focus mode, the OSD character prompt will be displayed on the upper-left corner of the image.
	- In the menu adjustment page, press the button to control the menu. - Outside the menu adjustment page, pan/tilt the camera. Press the button to adjust the camera by level. Press and hold the button to adjust the camera continuously. * PT control function cannot be used when adjusting menu.
	- Press the button to zoom in/out by level. - Press and hold the button to adjust the camera continuously.
FOCUS- / +	- Press the button to adjust the focus by level. - Press and hold the button to adjust the camera continuously. * Please make sure the device is in semi focus mode before manually adjusting focus.
	Switch the image mode. Standard (default), Vivid , Soft , Backlight , and Portrait are available.



Indicator

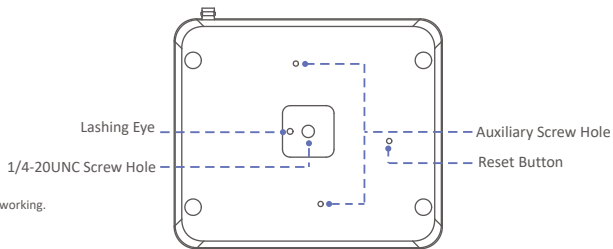
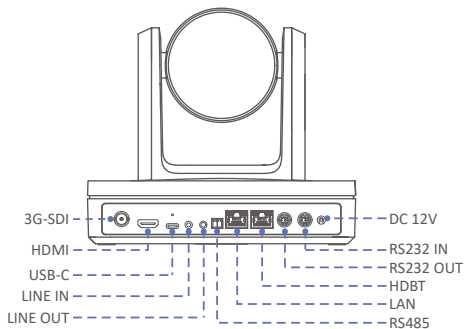
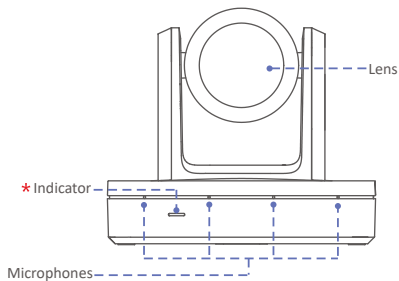
Human Body Following Mode

Sound Source Localization Mode

Presets



	Press the button to enable/disable human following mode. Under this mode, the lens follows the human. * Human following mode and sound source localization are disabled by default, and the two modes cannot be enabled at the same time.
	Press the button to enable sound source localization mode. Under this mode, the lens follows the place where the sound is made. * Human following mode and sound source localization are disabled by default, and the two modes are mutually exclusive.
	Preset effects of all parameters can be saved, including image parameters, zoom parameters, etc. Operating Instructions: • After parameters are set, press and hold number key for 3 seconds to save the current effect as corresponding preset. Preset can be overwritten. • Press number key to call the preset parameters. * When one-touch image parameters locking is enabled, only the zoom parameters will be changed when switching preset.
 Pairing Mode	The remote control and camera can only be paired when they are both in pairing mode. • Power off the camera. • Press and hold  and  of the remote control for 3 seconds, and the indicator of the remote control flashes white quickly. It means the remote control is in pairing mode. • If pairing is successful in 20 seconds, the remote control's light will flash red and white alternately twice and then remain off. * If the pairing fails, please repeat the above operations. * The remote control and camera are paired by default. * The remote control and the camera can only be paired one-to-one.

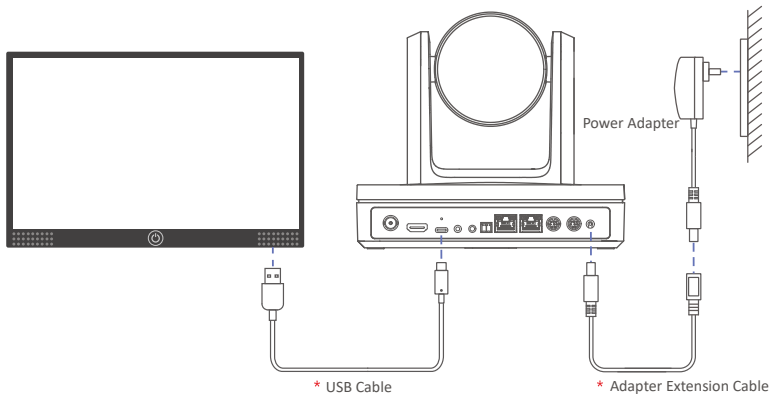


★ Indicator

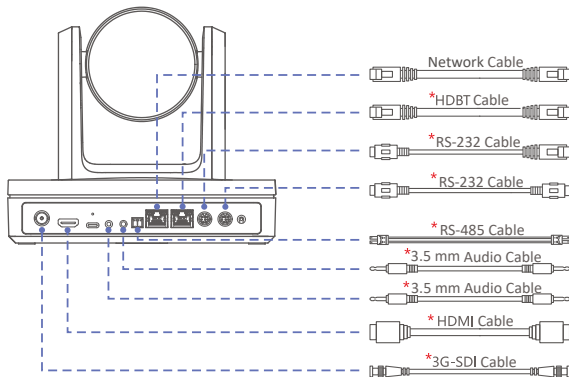
- Solid White: The audio function/video function is working.
- Solid Red: The device is in the mute mode.
- Light Off: The device is in the standby mode.



Connection

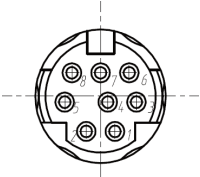


- ★ Connect the device to a smart terminal, such as a computer or conference flat panel.
- ★ The adapter extension cable is for long-distance power connections.
- ★ Separately purchase a USB 2.0/3.0 extension cable with a signal amplifier if you need long-distance data connection. Please test it to ensure stability.



- * Cables need to be purchased separately, and the quality must be ensured.
- * HDBT: Connects to panels and monitors which support HDBT interface. It is recommended to use CAT6 or higher network cables.
- * RS-485: Supports HIKVISION, PELCO-D, and PELCO-P protocols, and (RS-485) keyboard control interface, baud rate: 2400/4800/9600/19200/38400, default baud rate: 9600; supports PTZ control, zoom control, preset settings, calling, and deletion.
- * LINE IN/LINE OUT: LINE IN: 1 audio input (line in), 3.5 mm three-segment TRS interface. LINE OUT: 1 audio output (line out), 3.5 mm three-segment TRS interface.
- * HDMI: Connects to panels and monitors which support HDMI interface.
- * 3G-SDI: Transmits video signals. 3G-SDI cannot output video signals simultaneously with HDMI or HDBT.
- * RS-232: Supports VISCA protocol (RS-232) keyboard control interface, baud rate: 9600; supports PTZ control, zoom control, preset settings, calling, and deletion. The description of the RS-232 interface is as follows.

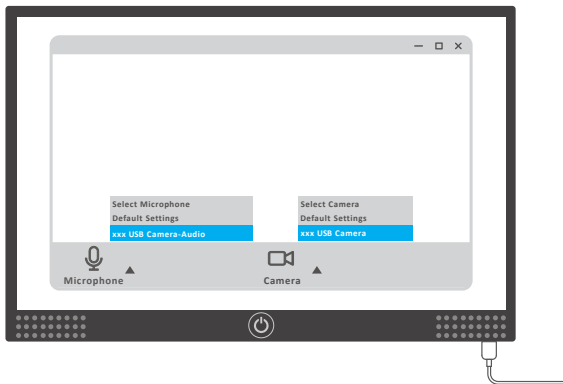
- RS-232 Interface Description

Interface	RS-232 IN		RS-232 OUT	
	Pin No.	Pin Name	Pin No.	Pin Name
	1	NC	1	NC
	2	NC	2	NC
	3	TXD	3	RXD
	4	GND	4	GND
	5	RXD	5	TXD
	6	GND	6	GND
	7	NC	7	NC
	8	GND	8	GND



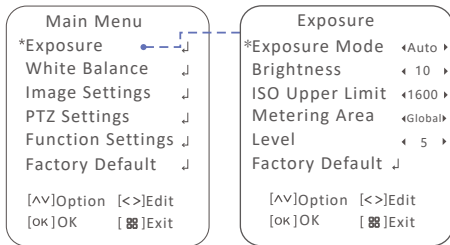
Setup Guide

- Audio/Video Settings



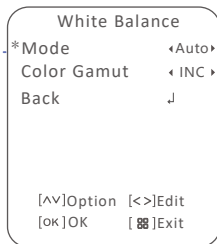
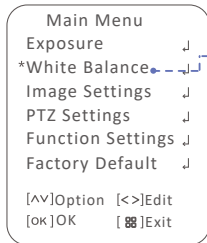
★ Power on the device and open the conference/video software. Select the Microphone as xxx USB Camera-Audio, and select the Camera as xxx USB Camera. Please refer to the the actual device as the standard.

● Main Menu Settings

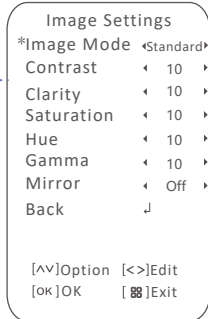
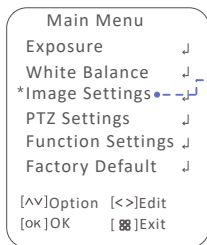


- **Exposure:** Auto, Manual, Shutter, and Aperture. Default: Auto.
- **Brightness:** 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, and 20. Default: 10. The setting is only available in Auto, Shutter, and Aperture modes.
- **Shutter:**
 - **PAL:** 1/25, 1/50, 1/100, 1/200, 1/500, 1/1000, 1/2000, 1/3000, 1/5000, and 1/10000. Default: 1/25.
 - **NTSC:** 1/30, 1/60, 1/120, 1/200, 1/500, 1/1000, 1/2000, 1/3000, 1/5000, and 1/10000. Default: 1/30.
- **Aperture:** F2.0, F2.2, F2.4, F2.6, F2.8, F3.0, F3.2, F3.4, F3.6, and F3.8. Default: F2.0. The setting is only available in Auto, Shutter, and Aperture modes.
- **ISO Upper Limit:** 100, 125, 160, 200, 250, 320, 400, 500, 640, 800, 1000, 1250, 1600, 2000, 2500, 3200, 4000, 5000, 6400, 8000, 10000, 12800, 16000, and 20000. The setting is only available in Auto, Shutter, and Aperture modes. Default: 1600.
- **ISO:** 100, 125, 160, 200, 250, 320, 400, 500, 640, 800, 1000, 1250, 1600, 2000, 2500, 3200, 4000, 5000, 6400, 8000, 10000, 12800, 16000, and 20000. The setting is only available in the Manual model. Default: 160.
- **Metering Area:** Global, Center, and Top. The setting is only available in Auto, Shutter, and Aperture modes. Default: Global.

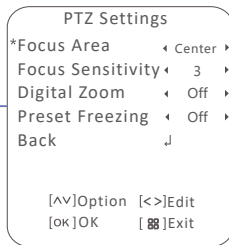
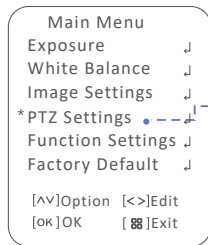
- * Please refer to the actual factory settings for the default parameter.
- * The settings will be automatically saved once you switch the parameter.
- * The menu will exit with no operation within 2 minutes.



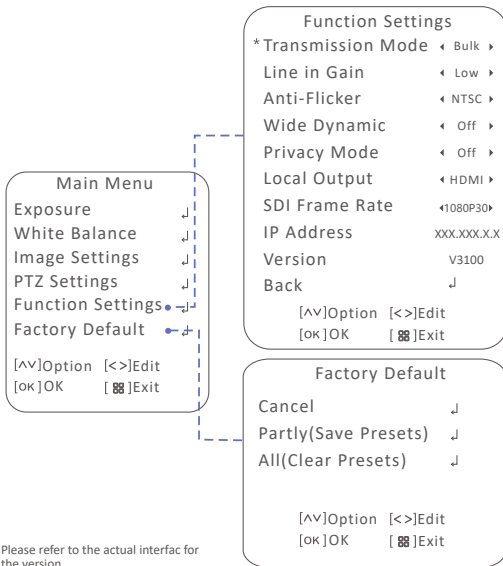
- **Mode:** Auto, Manual, and Quick Calibration. Default: Auto.
- **Color Temperature:** 2700, 2750, 2800, 2850, 2900...7450, and 7500. The temperature can be adjusted in increments of 50 Kelvin.
- **Color Gamut:** Narrow CCT, Wide CCT, INC, WW, DL, and FL. The setting is only available in the Auto mode. Default: INC.
- **Red Fine-Tuning:** -10, -9, -8, -7, -6, -5, -4, -3, -2, -1, 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, and 10. The setting is only available in Auto and Quick Calibration modes. Default: 0.
- **Blue Fine-Tuning:** -10, -9, -8, -7, -6, -5, -4, -3, -2, -1, 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, and 10. The setting is only available in Auto and Quick Calibration modes. Default: 0.



- **Image Mode:** Standard, Vivid, Soft, Backlight, and Portrait. Default: Standard.
- **Contrast:** 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 29, 19, and 20. Default: 10.
- **Clarity:** 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 29, 19, and 20. Default: 10.
- **Saturation:** 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 29, 19, and 20. Default: 10.
- **Hue:** 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 29, 19, and 20. Default: 10.
- **Gamma:** 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 29, 19, and 20. Default: 10.
- **Mirror:** Off, Horizontal, Vertical, and Center. Default: Off.



- **Focus Area:** Center, Top, Bottom, and Global. Default: Center.
- **Focus Sensitivity:** 1, 2, 3, 4, and 5. Default: 3.
- **Digital Zoom:** On and Off. Default: off.
- **Preset Freezing:** On and Off. Default: off.



- **Transmission Mode:** Bulk and ISOC. Default: Bulk.
- **Line in Gain:** High and Low. Default: Low.
 - **High:** Suitable for wireless microphones, lavalier microphones and other microphones.
 - **Low:** Suitable for analog signal professional pickups.
- **Anti-Flicker:** PAL and NTSC. Default: NTSC.
- **Wide Dynamic:** On and Off. Default: off.
- **Privacy Mode:** On and Off. Default: off. After enabling Privacy Mode, the lens will automatically tilt down if there are no PTZ or zoom operations within 30 seconds. Privacy mode is disabled by default.
- **Local Output:** HDMI and SDI. Default: HDMI.
- **SDI Frame Rate:** 1080P25, 1080P30, 1080P50, and 1080P60. Default: 1080P30. The setting is only available when you choose SDI for Local Output.

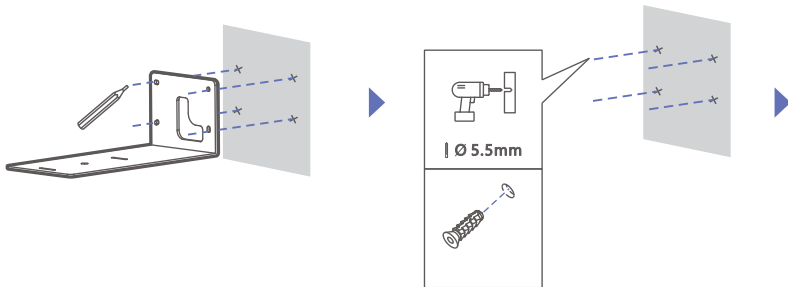
* Please refer to the actual interface for the version.

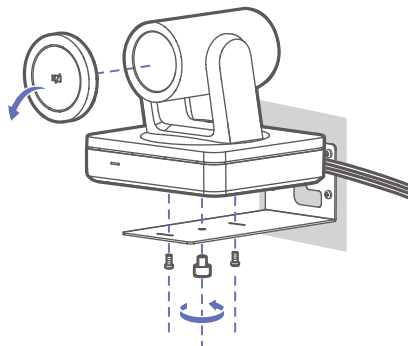
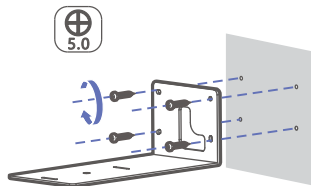
* After switching the transmission mode, press the OK button on the remote control, and the device will automatically restart.



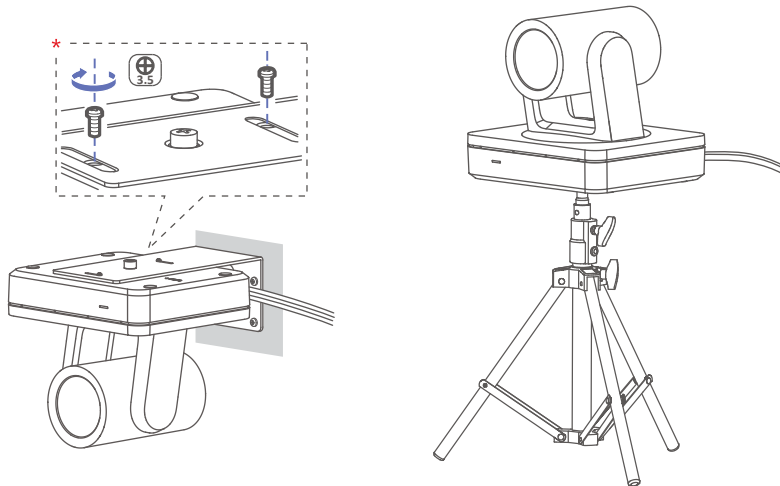
Installation

- Wall Mounting





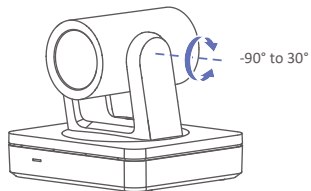
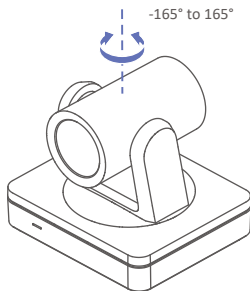
● Others



* Pendant Mounting: To ensure the device is securely installed, it is recommended to use the auxiliary fix screws to fasten the mount to the device.

Installation with a Tripod: The tripod shall be purchased separately. Threaded hole: 1/4-20UNC.

- Angle Adjustment



FAQ

Visit <https://enpinfodata.hikvision.com/analysisQR/showQR/35d08787> for frequently asked questions.

Operate via Web Browser

Visit <https://enpinfodata.hikvision.com/analysisQR/showQR/edf595ad> for operation via web browser.

Safety Instruction



Warnings

Laws and Regulations

The device should be used in compliance with local laws, electrical safety regulations, and fire prevention regulations.

Electrical Safety

The socket-outlet shall be installed near the equipment and shall be easily accessible.

Battery

CAUTION: Risk of explosion if the battery is replaced by an incorrect type.

Improper replacement of the battery with an incorrect type may defeat a safeguard (for example, in the case of some lithium battery types).

Do not dispose of the battery into fire or a hot oven, or mechanically crush or cut the battery, which may result in an explosion.

Do not leave the battery in an extremely high temperature surrounding environment, which may result in an explosion or the leakage of flammable liquid or gas.

Do not subject the battery to extremely low air pressure, which may result in an explosion or the leakage of flammable liquid or gas.

Dispose of used batteries according to the instructions.



Cautions

Fire Prevention

No naked flame sources, such as lighted candles, should be placed on the equipment.

Installation

Install the equipment according to the instructions in this manual.

Never place the equipment in an unstable location. The equipment may fall, causing serious personal injury or death.

DO NOT touch the sharp edges or corners.

Transportation

Keep the device in original or similar packaging while transporting it.

DO NOT drop the product or subject it to physical shock.

Power Supply

EUT will be charged by specified source which the output circuit comply with LPS/PS 2.

Refer to the device label for the standard power supply. Please make sure your power supply matches with your device.

Use a power adapter provided by qualified manufacturers. It is recommended to provide an independent power adapter for each device as adapter overload may cause over-heating or a fire hazard.

Maintenance

If the product does not work properly, please contact your dealer or the nearest service center. We shall not assume any responsibility for problems caused by unauthorized repair or maintenance.

Cleaning

Please use a soft and dry cloth to clean the interior and exterior surfaces. Do not use alkaline detergents.

Emergency

If smoke, odor, or noise arises from the device, immediately turn off the power, unplug the power cable, and contact the service center.

Using Environment

When any laser equipment is in use, make sure that the device lens is not exposed to the laser beam, or it may burn out. DO NOT aim the lens at the sun or any other bright light. To avoid heat accumulation, good ventilation is required for a proper operating environment.

DO NOT expose the device to extremely hot, cold, dusty, corrosive, saline-alkali, or damp environments. For temperature and humidity requirements, see device specification. DO NOT expose the device to high electromagnetic radiation.

Regulatory Information

These clauses apply only to the products bearing the corresponding mark or information.

FCC Information

FCC compliance: This product 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 product 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 product 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.

FCC Conditions

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.

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.

EU Conformity Statement

CE 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 Directive 2014/30/EU (EMCD) and Directive 2011/65/EU (RoHS).

Note: The products with the input voltage of within 50 to 1000 VAC or 75 to 1500 VDC comply with Directive 2014/35/EU (LVD), and the rest products comply with Directive 2001/95/EC (GPSD). Please check the specific power supply information for reference.

 Directive 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.

 Directive 2006/66/EC and its amendment 2013/56/EU (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.

Industry Canada ICES-003 Compliance

This device meets the CAN ICES-3 (B)/NMB-3(B) standards requirements.

Open Source Software Disclaimer

This product cannot be launched without the contribution of open source software. HIKVISION respects the Intellectual Property of others, has established and will continue to improve its open source compliance system. You can get this product's Open Source Software Declaration and Copyleft Source Code by visiting <http://opensource.hikvision.com/Home>.

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See Far, Go Further