

# NSTP-431-RW4F

## Dahua 4MP All-in-One Enforcement Camera



- 1/1.8" 4 MP starlight CMOS sensor.
- Maximum resolution: 2688 × 1520@30 fps.
- Video compression standards: H.265, H.264M, H.264H and MJPEG.
- With its advanced image technology, it can work in ultra-low lighting conditions and complete darkness.
- Protection: IP68, IK10 rated.
- The embedded dual-LED lights offer warm light and 850 nm IR light options that can be conveniently switched between.
- Built-in vari-focal lens that allows the device to seamlessly adapt to multiple scenes.
- IP Address locking system, after several (customizable) number of wrong access
- AES256 encryption for video recorded on SD card and exported video
- encrypted video live stream by TLS secure channel



### Protection

IP68: The camera passes a series of strict test on dust and soak. With the water-proof enclosure, the camera can work normally after soaking in 1 m deep water for 2 hours.

### Dual Light

Through Dahua Dual Light technology, the camera offers flexible illumination modes, featuring both warm light and 850 nm infrared light options.

### WDR

Featuring advanced Wide Dynamic Range (WDR) technology, the camera captures crisp and clear videos and snapshots, even in environments with extreme lighting contrasts.

### Scene

Dahua's new generation of urban road surveillance cameras can be widely used in urban roads, rural streets, parks, and residential scenarios, which significantly improves the efficiency of urban safety management and makes roads safer, smoother, and smarter.

### Series Overview

With its high-performance AI processor, the Spotter Nano camera delivers high quality images even in the toughest weather conditions. It utilizes Dual Light technology and its built-in LED illuminators to supplement light, enabling you to freely switch between its warm light and IR light options. The tilted window design and glass heating capability together enable rapid image capture and fast data transmission for crisp and clear visuals. Additionally, the camera also leverages DCG technology to deliver high-quality images even in challenging lighting conditions. The camera has an IP68 and IK10 rating, making it ideal for outdoor use.

### Functions

#### Impressive Performance

The high-performance CPU processor extracts and analyzes information on motor and non-motor vehicles in real time, providing valuable information on their features. This information is useful for effective decision making.

#### Intelligent Defogging

Suitable for use in all weather conditions, the camera can automatically control the ITO glass to defog based on the temperature and humidity inside the cover, effectively preventing the glass from icing and fogging.

### Cyber Security

Dahua network camera is equipped with a series of key security technologies, such as security authentication and authorization, access control, trusted protection, encrypted transmission, and encrypted storage, which improve its security defense and data protection, and prevent malicious programs from invading the device. NetShield serie devices have passed hard penetration tests and have high level of cyber security.

Technical Specification					
Camera					
Image Sensor					
Pixel					
Shutter Mode					
Electronic Shutter Speed					
Noise Reduction					
S/N Ratio					
WDR					
Min. Illumination					
Illuminator					
Illuminator Number					
Illuminator Brightness Adjustment					
Illumination Distance					
Lane Coverage					
Lens					
Lens Type					
Focal Length					
Max. Aperture					
Field of View					
Exposure Mode					
DORI Distance	Lens	Detect	Observe	Recognize	Identify
	W	150.3 m (492.99 ft)	60.1 m (197.13 ft)	30.1 m (98.73 ft)	15 m (49.2 ft)
	T	400 m (1312 ft)	160 m (524.8 ft)	80 m (262.4 ft)	40 m (131.1 ft)
Function					
Trigger Mode					
OSD Overlay					
Alarm Event					
Automatic Network Replenishment (ANR)					
Auto Registration					
Restricted List/Trusted					
Intelligence					
Target Detection					
ANPR					
Vehicle Type Recognition					
Vehicle Color Recognition					
Vehicle Brand/Logo Recognition					
Motor Vehicle Violation Capture					
Motorcycle Violation Capture					
Traffic Flow Detection					
Traffic Event					
Video					
Video Compression					
Video Resolution					
Video Frame Rate					
Video Bit Rate					
Bit Rate Control					
White Balance					
Edge Enhancement					
HLC					
BLC					
Bad Pixel Correction					
Gain Range					
Image					
Composite Image					
Image Resolution					
Image Encoding Format					
Image Tampering Prevention					

## Network

Network Port	1 × RJ-45 Ethernet port
SDK and API	Yes
Security	Authorized username and password, MAC address binding, HTTPS by default, and network access control, Digest
Network Protocol	IPv4; IPv6; DHCP; NTP; IP; HTTP; UDP; TCP
Interoperability	ONVIF (Profile S & Profile G & Profile T & Profile M)
Browser	Microsoft Edge Chrome: Chrome 41 and earlier Firefox: Firefox 49 and earlier For Win 10 users, run the browser as administrator
Timing	NTP

## Port

Storage	1, supports maximum 1 TB TF card local storage
RS-485	1
RS-232	1
Alarm Input	1 channel
Alarm Output	2 channels

## General

Power Supply	PoE;12 VDC
Power Consumption	With light turned off < 5.5 W With IR light turned on < 9.5 W With warm light turned on < 14.5 W
Operating Temperature	−30 °C to +65 °C (−22 °F to +149 °F)
Storage Temperature	−30 °C to +65 °C (−22 °F to +149 °F)
Operating Humidity	10%–90% (RH), non-condensing
Storage Humidity	0%–90% (RH), non-condensing
Protection	IK10; IP68
Anti-corrosion Level	Basic Protection
Certifications	CE EMC:EN 61000-3-3;EN IEC 61000-3-2;EN 301 489-1;EN 301 489-51;EN 301 489-52;EN 301 511;EN 301 908-1;EN 301 908-2;EN 301 908-13;EN 305 550-2;EN IEC 62311 CE LVD:EN62368-1 CE RED:EN 61000-3-3;EN IEC 61000-3-2;EN 301 489-1;EN 301 489-51;EN 301 489-52;EN 301 511;EN 301 908-1;EN 301 908-2;EN 301 908-13;EN 305 550-2;EN IEC 62311 IK10:IEC60068-2-75:2014 IP68:IEC60529:2013
Product Dimensions	350 mm × 109 mm × 150 mm (13.78" × 4.29" × 5.91") (L × W × H)
Packaging Dimensions	400 mm × 197 mm × 171 mm (15.75" × 7.76" × 6.73") (L × W × H)
Net Weight	1.724 kg (3.80 lb)
Gross Weight	2.364 kg (5.21 lb)
Installation	Installs with universal mounting brackets, or as a side-mount with mounting brackets

## Ordering Information

Type	Model	Description
Spotter Nano	NSTP-431-RW4F	Dahua 4MP All-in-One Enforcement Camera
Accessories (Optional)	DH-PFA5510	Quick-install Pole Mount Braket

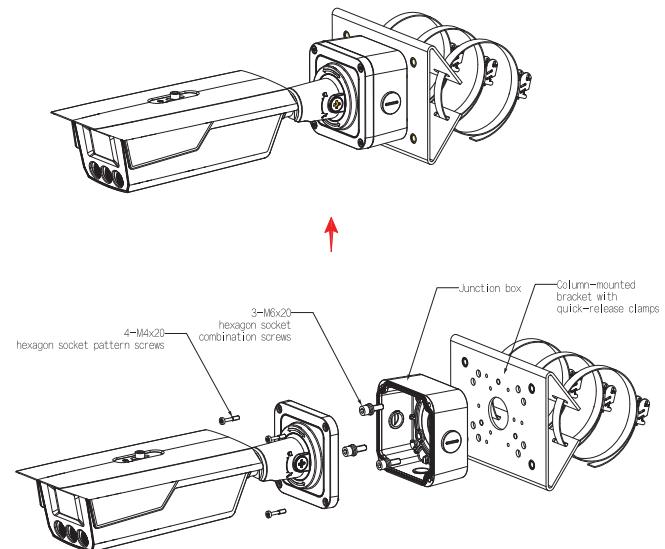
## Accessories

Optional:



DH-PFA5510  
Quick-install Pole Mount  
Braket

## Installation



## Dimensions (mm [inch])

