DATA SHEET	Reference Cost:4000USD
Full-Color Night Vision Video Camera Squat Guard System	**CPA3771E-DS**

Product Overview

CPA3771E-DS night vision squatting system without supplementary light, equipped with a double-layer AI deep learning algorithm, can easily realize 400-meter human figure recognition, 50-meter face recognition, 100-meter license plate recognition, and 800-meter vehicle model recognition. Positioned in cities, suburbs, and border and coastal defenses for temporary deployment and alert.

CPA3771E-DS night vision squatting system without supplementary light, realizes 24-hour full-color video recording without any supplementary light. When the target appears, the squatting system will actively alarm and remind the background management personnel, which solves the traditional technical weakness of completely relying on manual squatting , liberated people's eyes, and enriched the technical means of remote monitoring.

This product does not have any external supplementary light, which is very energy-saving. It can work continuously for more than 10 hours when fully charged. It can be charged with an external power bank, realizing long-term video surveillance in an environment without power supply.

Product Feature

- 24-hour full-color video capture without fill light
- Built-in lithium battery, easy to carry, can be arranged anywhere, easy to achieve 24 hours unattended
- Data return via WiFi or 4G or network cable
- Front-end face comparison and human figure recognition functions, with active warning prompts
- Front license plate recognition and vehicle model recognition functions, with active warning prompts
- Line marking in front of the equipment, cross-border detection, intrusion alarm function
- The device alarm data (picture) can be transmitted to the background in real time, and the 15-second video before and after the alarm trigger can be reported at the same time
- Low illumination recognition: Realize face comparison and license plate comparison under 0.008Lux illumination
- Ultra-long warning distance, easy to realize unattended human-shaped cross-border warning of more than 400 meters
- High-definition picture quality, colorful
- Support H.265/H.264/MJPEG multi-coding standard
- Support multi-standard interface protocols and network protocols

Product Parameter

Camera Specifications

Sensor Type	1/2.2"
Electronic Shutter	1/25—1/100,00 second
Lens Focal Length	50mm，F1.2
Warning angle	5.8°
Maximum image size	1920（H）×1080（
Wide dynamic range	Support
SNR	≥52dB
Communication Interface	Send data back to the control terminal or management platform through the built-in WiFi module or 4G module
Operating Temperature and Humidity	-20℃~70℃, humidity less than 95% (non-condensing)
Power Supply	Built-in lithium battery (support no less than 10 hours battery life)
Memory	Built-in 32GB EMMC, support TF card expansion
Installation method	Tripod installation
Weight	Equipment: 800g Tripod: 600g
Device Size	180mm×80mm×77mm
Power Consumption	<4W

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Control Method	1. The front end can be controlled and viewed through the mobile phone APP, and can be synchronously sent back to the remote cloud background. 2.Through the built-in 4G module, the result data, pictures and videos of the front-end comparison are directly sent back to the computer private cloud background.
Humanoid Intelligent Detection	
Humanoid detection capture	Recognition rate up to 99% Full-screen human detection, support line drawing warning
AI Humanoid Detection Distance	≧400 meter
Humanoid detection alarm	Humanoid detection linkage alarm output, FTP upload
Smart face comparison	
Face detection capture	The capture rate is as high as 99% Full-screen face detection, the detection area can be set Optimal, fast capture mode, flexible parameters can be set Excellent screening output, effectively reducing repetition rate
Face recognition distance	>55meter
Night Vision Illumination Requirements	>0.008Lux
Vehicle Intelligent Detection	
License Plate Recognition	Including blue, yellow, green, yellow and green, white, black and so on
Vehicle identification	Recognize all vehicles in the image, return the type and coordinate position of each vehicle, and recognize 7 types of vehicles: cars, trucks, buses, motorcycles, electric vehicles, tricycles, and bicycles
Video encoding	
Video Coding Standard	H.264/H.265/MJPEG
Video encoding capability	Support dual stream simultaneous output: Main stream: 1080P(1920×1080)@25fps Sub stream: (640×480)@25fps
Video output bit rate	128Kbps~12Mbps
Image settings	
Image Settings	Saturation, brightness, contrast, sharpness can be set
Image Processing	Support automatic exposure, automatic white balance, automatic gain adjustment Support backlight compensation, 3D noise reduction, electronic fog penetration, digital wide dynamic range
OSD overlay	Support overlay time, location, equipment name and other information
Internet Functions	
Interface protocol	ONVIF(PROFILE S), MQTT
Internet protocol	TCP/IP, ICMP, HTTP, HTTPS, FTP, DHCP, DNS, DDNS, RTP, RTSP, NTP,
Browser support	Support downloading photos and videos taken by the device through the browser
General Functions	
Intelligent alarm	Motion detection alarm, area alarm, cross-border alarm
Alarm linkage push	Support motion detection, alarm input trigger linkage sending email, FTP upload or push information to APP
User rights management	Support two levels of user permissions, multi-user support
System Clock	Support PC time synchronization, NTP network time calibration
Operation and maintenance management	Support remote online upgrade

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Product Picture and Install Picture

Main Device

Vehicle Mounting

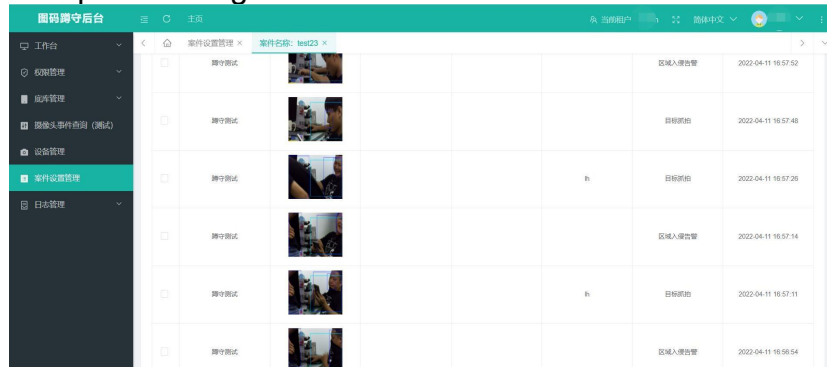

Coastal Defense Vessel Monitoring

Video real scene comparison test
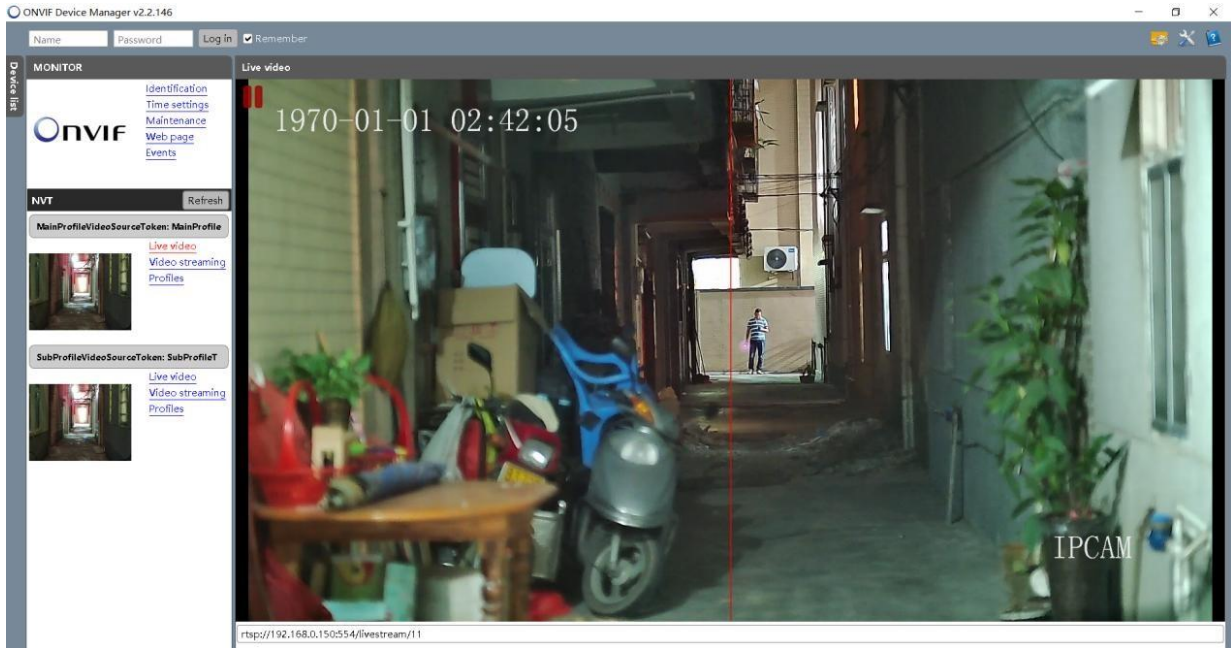
Our company's night vision camera without fill light can clearly see human figures 100 meters away

AI Function

Computer Background

The camera front end supports the following AI functions:
Face comparison, human figure detection, license plate detection, vehicle type detection, cross-border detection;
APP supports face blacklist import, license plate blacklist import, area cross-border delineation, data reporting, data display, image review
Squatting in the background supports multi-machine linkage work, supports face blacklist import, license plate blacklist import, area cross-border delineation, data reporting, data display, and image review

App Background