

UN-HDBW5541E-ZE-AI

5MP WDR IR Dome AI Network Camera



- · 1/2.7" 5Megapixel progressive scan CMOS
- · H.265&H.264 triple-stream encoding
- \cdot 25 fps@2560 × 1920, 25 fps@1080P(1920 × 1080)
- · WDR(120dB), Day/Night(ICR), 3D DNR, AWB, AGC, BLC
- · Multiple network monitoring: Web viewer
- · 2.7mm ~13.5mm motorized lens
- · 1/1 Alarm in/out, 1/1 audio in/out
- · Max. IR LEDs Length 40m
- · Micro SD memory, IP67, IK10



Featuresand Functions

System Overview

Pro AI series contains Face Capture, Perimeter Protection and People Counting functions. Powered by deep-learning Artificial Intelligence algorithms, significantly improved accuracy. Meanwhile, the series features starlight and smart IR technology. This series fully protected from dust and water, certified to IP67 and vandal resistant to IK10 standard.

Functions

Face Capture

Face capture is a software application that automatically captures faces from within a digital image or a video frame from a video source. United cameras use advanced deep learning algorithms and are trained by a large number of face data sources, enabling the camera to locate faces quickly and accurately from the video source and capture facial images.

Face Attributes

Through the use of deep learning algorithms to analyze facial images, United cameras can extract six facial attributes from each frame, including Age, Gender, Expression (Jolly/Surprise/Normal/Rage/Sad/Disgusted/Confused/Frightened), Glasses, Mouth Mask, Moustache & Beard. Customers can acquire data of interest via face attributes statistics.

Perimeter Protection

United's Perimeter Protection functions significantly improved accuracy. Perimeter Protection reduces false alarms and decreases pixel count requirements for object detection. Perimeter Protection features custom tripwires based on object type for automation in limited access areas such as pedestrian or vehicle-only zones. This combination of advanced Al analytics and real-time alerts to a desktop or to a mobile

client reduces system requirements and resources resulting in greater surveillance system efficiency.

People Counting

People Counting function uses advanced image processing technology to capture depth information from within images. The camera pairs this information with deep learning algorithms to analyze and detect human bodies and track target objects in real time. The camera provides statis tics for separate individuals' entrance and exit with up to 95% counting accuracy.

Metadata

Metadata is feature attribute information extracted from a target object which can be used for data retrieval. United face detection camera can extract six facial attributes and output the metadata for analysis.

ePoE technology

The ePoE technology of Dahua, designed internally, adopts advanced 2D-PAM3 coding modulation from physical layer, and realizes full duplex transmission over 800 meters at the speed of 10Mbps, or 300 meters at the speed of 100Mbps via Cat 5 or coaxial cable media. Besides, it sup ports PoE and PoC power supply technology which has greatly simplified construction and wiring. United ePoE technology offer a new way to accomplish long distance transmission between IP camera and network switch. It allows more flexible surveillance system design, improves reli ability and saves construction and wiring cost.

Protection(IP67, IK10, wide voltage)

The camera allows for $\pm 30\%$ input voltage tolerance, suitable for the most unstable conditions for outdoor applications. Its 6KV lightning rat ing provides effective protection for both the camera and its structure against lightning. Subjected and certified to rigorous dust and immer sion tests (IP67) and impact tests (IK10), the camera is the choice for installation in even the most unforgiving environments.





Technical Specification							2560x1920/2688 × 1520/2560 × 1440/2304 × 1296 1080P(1920×1080)/1.3M(1280×960)/720P(1280×7	
Camera				Resolution	20)/D1(704×576/704×480)/VGA(640×480)/ CIF(352×288/352×240)			
Image Sensor		1/2.7" 5Megapixel progressive scan CMOS				Frame Rate	Main Stream: 2560×1920(1~25fps)	
Effec ve Pixels		2592(H) x 1944(V)						Sub Stream: D1(1~20/30fps) Third Stream: 1080P(1~13fps)
RAM/ROM	1GB/128MB				Bit Rate Control	CBR/VBR		
Scanning System	Progressive	Progressive				Bit Rate	H.264: 32~ 8192Kbps	
Electronic Shutter Speed		Auto/Manual, 1/3~1/100000s					DIL Nate	H.265: 19~ 8192Kbps
,		0002Lux (F1.2, AGC ON)					Day/Night	Auto(ICR) / Color / B/W
Minimum Illumination		And OLux with (IR on)					BLC Mode	BLC / HLC / WDR(120dB)
IR Distance		Distance up to 40m (131ft)					White Balance	Auto/Natural/Street Lamp/Outdoor/Manual
IR On/Off Control		Auto/ Manual					Gain Control	Auto/Manual
IR LEDs		3	3				Noise Reduction	3D DNR
Lens							Motion Detetion	Off / On (4 Zone, Rectangle)
Lens Type		Motorized	Motorized				Region of Interest	Off / On (8 Zone)
Mount Type		Board-in					Electronic Image Stabilization (EIS)	Support
Focal Length		2.7mm~13.5mm				Smart IR	Support	
Max. Aperture		F1.2					Defog	Support
Angle of View		H: 100°~28°, V:72°~21°(2592×1944)					Digital Zoom	N/A
Optical Zoom		H: 104°~29°, V:55°~16°(2688×1520) 5x				Flip	0°/90°/180°/270°	
·						Mirror	Off / On	
Aperture Type Close Focus Distance		Auto					Privacy Masking	Off / On (4 Area, Rectangle)
Close Focus Distan			0.8m(2.62ft)				Audio	
	Lens	Detect	Observe	Recognize	Identify		Compression	G.711a/ G.711Mu/ AAC/ G.726/G.723
DORI Distance	W	64m(210ft)	26m(85ft)	13m(43ft)	6m(20ft)		Network	
	Т	212m(696 ft)	85m(2/9π)	42m(138π)	21m(69 ft)		Ethernet	RJ-45 (10/100Base-T)
Pan/Tilt/Rotation		D 0°255°	T'll 0°CT° D	0%-255	- o		Protocol	HTTP; TCP; ARP; RTSP; RTP; UDP; RTCP; SMTP; FTP; DHCP; DNS; DDNS; PPPoE; IPv4/v6; SNMP; QoS;
Pan/Tilt/Rotation I		Pan:0 ~355 ;	111t:0 ~65 ; K	otation:0°~35!	0		Protocol	UPnP;NTP
Artificial Intellig	gence						Interoperability	CGI,Milstone,Genetec,P2P
Face Capture		Support 6 kinds of face attributes extraction: Age				Streaming Method	Unicast / Multicast	
Face Attributes		Gender,Expr	Support 6 kinds of face attributes extraction: Age, Gender, Expression (Jolly/Surprise/Normal/Rage/Sad/ Disgusted/Confused/Frightened), Glasses, Mouth				Max. User Access	20 Users
Perimeter Protection		Mask, Moustache & Beard Tripwire, Intrusion(Human & Vehicle classification)				Edge Storage	NAS FTP Mirco SD card 256GB	
People Counting		Line crossing people counting, Region people counting					Web Viewer	IE(versions newer than IE8), Chrome, Firefox, Safari(versions newer than Safari 12)
General Intelligence				Management Software	Smart PSS, DSS, P2P			
Event Trigger		Motion detection, Video tampering , Scene changing, Network disconnection , IP address conflict, Illegal				Smart Phone	iOS, Android	
			occess, Storage anomaly Object Abandoned/Missing				Certifications	
Video		Object Abdil	aoneu/iviissili	5				CE-LVD:EN60950-1 CE-EMC:Electromagnetic Compatibility Directive
Compression		H.265+/H.265/H.264+/H.264/H.264B/H.264H/ MJPEG(sub stream)				Certifications	2014/30/EU FCC:47 CFR FCC Part 15, Subpart B UL/CUL: UL60950-1 CAN/CSA C22.2 No.60950-1-07	
Streaming Capability		3 Streams						
Streaming capability		5 50 50.115						



Interface

Video Interface	1 Port(For adjustment only)
Audio Interface	1/1 channel In/Out
RS485	N/A
Alarm	1 channel In: 5mA 5VDC 1 channel Out: 300mA 12VDC

Electrical

Power Supply	DC12V(±30%), AC24V(±30%), PoE(802.3af)(Class 0)
Power Consumption	DC12V:4.9W 12.4W(IR on) AC24V: 5.1W 11.9W(IR on) PoE:5.2W 11.6W(IR on)

Environmental

Operating Conditions	-30° C ~ +60° C (-22° F ~ +140° F) / 10%RH~95% RH
Strorage Conditions	+5° C $^{\sim}$ +40° C (+41° F $^{\sim}$ +104° F) (daily temperature difference within 15° C/59° F) / 10%RH $^{\sim}$ 95% RH
Ingress Protection	IP67
Vandal Resistance	IK10

Construction

Casing	Metal, plastic
Dimensions	Ф159mm×117.9mm (6.26"×4.64")
Net Weight	0.95kg (2.09lb)
Gross Weight	1.20kg (2.65lb)

Ordering Information				
Туре	Part Number	Description		
	DH-IPC- HDBW5541EP-ZE	5MP WDR IR Dome AI Network Camera,PAL		
5MP camera	DH-IPC- HDBW5541EN-ZE	5MP WDR IR Dome AI Network Camera, NTSC		
	IPC-HDBW5541EP- ZE	5MP WDR IR Dome AI Network Camera,PAL		
	IPC-HDBW5541EN- ZE	5MP WDR IR Dome AI Network Camera, NTSC		
	PFA138	Junction Box		
	PFB210W	Wall mount		
Accessories	PFB300C	Ceiling mount		
(op onal)	PFA152-E	Pole mount		
	PFA101	Mount adapter		
	PFB201C	In-ceiling mount		

In-ceiling Mount	Junction Mount	Pole Mount	
Ceiling Mount	Wall Mount		

Dimensions (mm/inch)



