

UN-HDBW5241E-ZE-AI

2 MP Pro Al Vari-focal IR Dome Al Network Camera



- 1/2.7" 2Megapixel progressive scan CMOS
- 1920x1080 @25fps/30fps
- H.264&H.265 coding, high compression ration
- WDR(120 dB), Day/Night(ICR), 3D DNR, AWB, AGC, BLC
- Multiple network monitoring: Web viewer, CMS (DSS/PSS) & DMSS
- 2.7 mm 13.5 mm motorized lens , with Corridor Mode
- 2/1 Alarm in/out, 1/1 audio in/out
- Max. IR LEDs Length 40 m
- Micro SD memory, IP67,IK10



Featuresand Functions

System Overview

Pro Al 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 Can be distinguished people, cars, and motorcycles (or bicycles) and also can be searching by the three types.

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 reliability 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 Spo	ecification						1080p(1920x1080),1.3M(1280x960),720p(1280x720),D1 (704x576/704x480),VGA(640x480)CIF(352x288/352x240)
Camera						Resolution	(10 110 10) 10 11 100), 10 11 10 10 10 10 10 10 10 10 10 10 10
Image Sensor		1/2 .7" 2Mega	1/2 .7" 2Megapixel progressive scan CMOS				Main Stream : 1920x1080 (1-25/30 fps)
Effective Pixels		1920(H) X 1080(H)				Frame Rate	Sub Stream : 640x480 (1-25/30 fps)
RAM/ROM		1GB/128MB				80.8 4 6 4 1	Third Stream : 352x288 (1-25/30 fps)
Scanning System		Progressive				Bit Rate Control	CBR/VBR H.264: 32~ 8192Kbps
Electronic Shutter Speed		Auto/Manual, 1/3~1/10000s				Bit Rate	H.265: 19~ 8192Kbps
Liectronic Shutter speed		0.001Lux (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 t	to 40m (131ft))		White Balance	Auto/Natural/Street Lamp/Outdoor/Manual
IR On/Off Control		Auto/ Manual				Gain Control	Auto/Manual
IR LEDs		3				Noise Reduction	3D DNR
Lens						Motion Detetion	Off / On (4 Zone, Rectangle)
Lens Type		Motorized				Region of Interest	Off / On (8 Zone)
Mount Type		Board-in				Electronic Image Stabilization (EIS)	Support
Focal Length		2.7mm~13.5	mm			Smart IR	Support
Max. Aperture		F1.2				Defog	Support
Angle of View			V:72°~21°(25 V:55°~16°(26			Digital Zoom	N/A
Optical Zoom			V.33 10 (20	55715257		Flip	0°/90°/180°/270°
			5x			Mirror	Off / On
Aperture Type			Auto			Privacy Masking	Off / On (4 Area, Rectangle)
Close Focus Dista			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(696ft)	85m(279ft)	42m(138ft)	21m(69ft)	Ethernet	RJ-45 (10/100Base-T)
Pan/Tilt/Rotat	ion						HTTP; TCP; ARP; RTSP; RTP; UDP; RTCP; SMTP;
Pan/Tilt/Rotation	Range	Pan:0°~355°;	Tilt:0°~65°; R	otation:0°~35	5*	Protocol	FTP; DHCP: DNS: DDNS: PPPoE; IPv4/v6; SNMP;QoS; UPnP;NTP; IEEE802.1x
Artificial Intelli	gence					Interoperability	ONVIF(Profile S/Profile G), CGI,Milstone,Genetec,P2P
Face Capture			Support face image capture Support 6 kinds of face attributes extraction: Age,			Streaming Method	Unicast / Multicast
Face Attributes		Gender,Expre	ession(Jolly/S	urprise/Norm	al/Rage/Sad/	Max. User Access	20 Users
Perimeter Protecti	on	Mask, Moust	Disgusted/Confused/Frightened), Glasses, Mouth Mask, Moustache & Beard Tripwire, Intrusion(Human & Vehicle classification)			Edge Storage	NAS FTP
	OII						Mirco SD card 256GB IE(versions newer than IE8), Chrome,
People (Olinting		counting	Line crossing people counting, Region people counting			Web Viewer	Firefox, Safari(versions newer than Safari 12)
General Intelli	gence					Management Software	Smart PSS, DSS, P2P
Event Trigger		Network disc	Motion detection, Video tampering , Scene changing, Network disconnection , IP address conflict, Illegal Access, Storage anomaly			Smart Phone	iOS, Android
General Intelligence Object Abandoned/Missing			Certifications Manufacturing by ISO14001-2015, ISO9001:2015 Company CE-LVD:EN60950-1				
Video							CE-EMC:Electromagnetic Compatibility Directive
Compression H.265-			265+/H.265/H.264+/H.264/H.264B/H.264H/			Certifications	2014/30/EU FCC:47 CFR FCC Part 15, Subpart B
Compression			MJPEG(sub stream)				UL/CUL/NDAA/UL60950-1
Streaming Capability		3 Streams					CAN/CSA C22.2 No.60950-1-07



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)

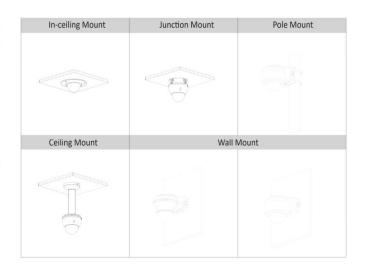
Environmental

Operating Conditions	-30° C $^{\sim}$ +60° C (-22° F $^{\sim}$ +140° F) / 10%RH $^{\sim}$ 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	
	UN-HDBW5241E- ZE-AI	2 MP Pro Al IR Vari-focal Bullet Network Camera,WDR,PAL	
2 MP camera	UN-HDBW5241E- ZN-AI	2 MP Pro Al IR Vari-focal Bullet Network Camera,WDR,NTSC	
	UN-HDBW5241E- ZE-AI	2 MP Pro Al IR Vari-focal Bullet Network Camera,WDR,PAL	
	UN-HDBW5241E- ZN-AI	2 MP Pro AI IR Vari-focal Bullet Network Camera,WDR,NTSC	
	PFA138	Junction Box	
	PFB210W	Wall mount	
Accessories	PFB300C	Ceiling mount	
(optional)	PFA152-E	Pole mount	
	PFA101	Mount adapter	
	PFB201C	In-ceiling mount	



Dimensions (mm/inch)

