PRO AI SERIES VBIP-2V-IZ-AI-PRO 2MP Pro Al IB Vari-focal Bullet Network Camera

VEILUX.



Key Features

- 1/2.8" 2Megapixel progressive scan STARVIS™ CMOS
- H.265 & H.264 triple-stream encoding
- 25/30 fps@1080P (1920 \times 1080)
- 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
- 2/1 Alarm in/out, 1/1 audio in/out
- Max. IR LEDs Length 50 m
- Micro SD memory, IP67, IK10

System Overview

Pro Al series contains Face Detection, Perimeter Protection and People Counting functions.Powered by deep-learning Artificial Intelligence algo- rithms, 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 Detection

Face Detection is a software application that automatically captures faces from within a digital image or a video frame from a video source. Veilux 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, Veilux cameras can extract six facial attributes from each frame, includ- ing Age, Gender,Expression(Jolly/Surprise/Normal/Rage/Sad/Disgusted/ Confused/Fright-ened), Glasses,Mouth Mask, Moustache & Beard. Cus- tomers can acquire data of interest via face attributes statistics.

Perimeter Protection

Veilux's Perimeter Protection functions significantly improved accu- racy. 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 AI 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. Veilux face detection camera can extract six facial attributes and output the metadata for analysis.

ePoE Technology

The ePoE technology of Veilux, 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. Veilux 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.

PRO AI SERIES VBIP-2V-IZ-AI-PRO

2MP Pro Al IR Vari-focal Bullet Network Camera



SPECIFICATIO	NC					
Camera	110					
		1/2.8" 2Magapiya		TAR\/IS™ CMOS		
Image Sensor		1/2.8" 2Megapixel progressive scan STARVIS™ CMOS				
Effective Pixels RAM/ROM		1920 (H) × 1080 (V) 512 MB/128 MB				
KAM/KOM Scanning System		Progressive				
Electronic Shutter						
Speed		Auto/Manual, 1/3 s-1/100000 s				
Minimum Illumination		0.002 Lux@F1.5				
IR Distance		Distance up to 50 m (164 ft)				
IR On/Off Control		Auto/Manual				
IR LEDs		4				
LENS						
Lens Type		Motorized vari-focal				
Mount Type		Board-in				
Focal Length		2.7 mm–13.5 mm				
Max. Aperture		F1.5				
Angle of View		H: 109°–30°, V: 57°–17°				
Aperture Type		Auto				
Close Focus D	istance	0.8 m (2.62 ft)				
	Lens	Detect	Observe	Recognize	Identify	
DORI Distance	W	44m(144ft)	18m(59ft)	9m(30ft)	4m(13ft)	
	T	146m(479ft)	58m(190ft)	29m(95ft)	15m(49ft)	
PAN/TILT/ROTA	TION					
Pan/Tilt/Rotation Range		Pan: 0° -360°, Tilt: 0° -90°, Rotation: 0° -360°				
ARTIFICIAL IN	TELLIGEN	CE				
Face Detection	n	Support face image capture				
Face Attributes		Support 6 kinds of face attributes extraction: Age, Gender,Expression (Jolly, Surprise, Normal, Rage, Sad, Disgusted, Confused, Frightened), Glasses, Mouth Mask, Moustache & Beard				
Perimeter Protection		Tripwire, intrusion (Recognition of vehicle and people), fast moving, loitering detection, parking detection and people gathering				
People Counting		Support Line crossing/Region/Queueing people counting; Support 4 accesses independent detection, 4 areas independent detection				
GENERAL INTE	LLIGENC	E				
Event Trigger		Motion detection, Video tampering , Scene changing, Network discon- nection , IP address conflict, Illegal Access,Storage anomaly				
General Intelligence		Object Abandoned/Missing				
Heat Map		Yes				
VIDEO						
Compression		H.265,H.264,H.264B,H.264H, MJPEG (sub stream)				
Smart Codec		Yes				

Resolution	1080P (1920 \times 1080)/1.3 M (1280 \times 960)/720P (1280 \times 720)/D1 (704 \times 576/704 \times 480)/VGA (640 \times 480)/CIF (352 \times 288/352 \times 240)		
	Main Stream: 1080P (1 fps–25/30 fps)		
Frame Rate	Sub Stream: D1 (1 fps-25/30 fps)		
	Third Stream: 1080P (1 fps–6 fps)		
Bit Rate Control	CBR/VBR		
Bit Rate	H.264: 32 Kbps–8192 Kbps H.265: 19 Kbps–7424 Kbps		
Day/Night	Auto(ICR)/Color/B/W		
BLC Mode	BLC/HLC/WDR (120 dB)		
White Balance	Auto/Natural/Street Lamp/Outdoor/Manual		
Gain Control	Auto/Manual		
Noise Reduction	3D DNR		
Motion Detection	Off/On (4 Zone, Rectangle)		
Region of Interest	Off/On (4 Zone)		
Electronic Image Stabilization (EIS)	Yes		
Smart IR	Yes		
Defog	Yes		
Flip	0°/90°/180°/270°		
Mirror	Off/On		
Privacy Masking	Off/On (4 Area, Rectangle)		
AUDIO			
Compression	G.711a, G.711Mu, AAC, G.726, G.723		
NETWORK			
Ethernet	RJ-45 (10/100 Base-T)		
Protocol	IPv4;IPv6;HTTP;HTTPS;TCP;UDP;ARP;RTP;RTSP;RTCP ;RTMP;SMTP;FTP;SFTP;DHCP;DNS;DDNS;QoS;UPnP ;NTP;Multicast;ICMP;IGMP;NFS;PPPoE;802.1x;SNMP		
Interoperability	ONVIF (Profile S/Profile G/Profile T), CGI, Milstone, Genetec, P2P		
Streaming Method	Unicast/Multicast		
Max. User Access	20 Users		
Edge Storage	NAS;FTP;SFTP Micro SD card 256 GB		
Web Viewer	IE (versions newer than IE8), Chrome, Firefox, Safari (versions newer than Safari 12)		
Management Software	Smart PSS, DSS, DMSS		
Smart Phone	iOS, Android		
CERTIFICATIONS			
Certifications	CE-LVD: EN60950-1 CE-EMC: Electromagnetic Compatibility Directive 2014/30/EU FCC: 47 CFR FCC Part 15, Subpart B		
INTERFACE			
Audio Interface	1/1 channel In/Out		
RS485	N/A		
Alarm	2 channel In: 5mA 5V DC 1 channel Out: 300mA 12V DC		

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ELECTRIC	

Power Supply	DC 12V (±30%), PoE (802.3af) (Class 0)			
Power Consumption	<10.3W			
ENVIROMENTAL				
Operating Condi- tions	-30° C to $+60^\circ$ C (-22° F to $+140^\circ$ F)/Less than 95% RH			
Storage Conditions	-30° C to $+60^\circ$ C (-22° F to $+140^\circ$ F)			
Ingress Protection	IP67			
Vandal Resistance	IK10			
CONSTRUCTION				
Casing	Metal, plastic			
Dimensions	273.2 mm × 95.0 mm × 95.0 mm (10.76" × 3.74" × 3.74")			
Net Weight	1.11 kg (2.44 lb)			
Gross Weight	1.51 kg (3.33 lb)			

Dimensions





