DDS222-01 | BioX Series
2MP Advanced Algorithm Face Detection Turret IP camera

2MP

3D DNR

IP67

- 1/2.7" 1080p CMOS Sensor
- H.265 triple stream encoding
- 3.6mm high-quality optical lens
- 50m IR effective range
- Super 120dB WDR
- Intelligent video analytics available such as Face detection, Intrusion, Counting etc
- Multiple web browsers supported
- Lightning protection up to 2kV
- IP67 ingress rating
- Built-in PoE

System Overview

The BioX Series of Advanced Algorithm IP Cameras offer computer vision technology with edge-performing complex real-time intelligent functions.

It is capable of providing multiple industry-leading intelligent video analytic functions, such as Face Detection, Line Crossing, Intrusion, Counting, Rapid Movement, Queue Detection, etc.

The false alarm filter function could effectively filter out the leaves, shadow motions and only focus on main targets such as human and vehicle movement.

Meanwhile, the series benefits from the powerful 1 TOPS chipset and ISP optimization and performs excellently in weak/strong light comparison and foggy scenarios to deliver the promising crystal-clear images.

Functions

H.265
Extra H.265 encoding could save 50% bandwidth and storage capacity at least.

On-board Edge Storage Function
Support up to 256GB massive data storage on board when used as standalone devices.

Protection
The BioX series is rated IP67, which means it could stand against water and dust for a long time with its precise mechanical and durable materials.
With 10% of input voltage tolerance, the cameras could work safely under extreme or unstable power conditions.
With a working temperature range from -30℃ to 55℃, the cameras could adapt to various harsh outdoor environments.
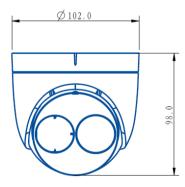
Technical Parameters

Camera

Model	DDS222-01	Flash / DDR	2GB / 2GB
Image Sensor	1/2.7" CMOS Sensor	IR LED No.	1
Effective Pixels	1920*1080	IR Distance	50m
Min. Illumination	Color: 0.005Lux (F1.6, AGC ON) B/W: 0.0005Lux (F1.6, AGC ON)	S/N Ratio	>52dB

Lens

Lens Type	Fixed	Aperture	F1.6
Mount Type	Board-in	FOV	84°
Focal Length	3.6mm	Optical Zoom	N/A

Video

Compression	H.265 / H.264	WDR	TWDR (120dB)
Resolution	1920 * 1080 / 1280 * 720 / 720 * 576 (PAL) / 720 * 480 (NTSC) / 352 * 288 (PAL) / 352 * 240 (NTSC)	Day / Night	Support
Bitrate Control	CBR / VBR	White Balance	Support
Bitrate	1080p: 512Kbps - 8Mbps 720p: 384Kbps - 4Mbps D1: 256Kbps - 4Mbps CIF: 32Kbps - 1Mbps	Defog	Support
Multi-Streaming	Main Stream: 1080p@25fps	Noise Reduction	2D/3D DNR
	Sub Stream: 720p@25fps	Mirror/Flip	Support
	Third Stream: D1@25fps	Corridor Mode	Support
Motion Detection	Support	HLC	Support
Digital Zoom	Support	BLC	Support
Audio Compression	G.711 a/u	ROI	4 areas
Privacy Mask	12 areas	Anti-flicker	Support

IVA

Intelligent Video	Face Detection / Line Crossing / Intrusion / Counting / Rapid Movement / Video Shelter / Scene change / VQD / Density Detection / Queue Detection

Face Detection

Face Templates	N/A	Face Quality Filtering	Support
Face Detected per Frame	30	Detection Area	User-defined
Detected Face Size	50 x 50 Pixels	Capture Response	≤1s

Network

Protocol	TTCP, UDP, IPv4, IPv6, DHCP, DHCPv6, DNS, ICMP, ICMPv6, IGMP, HTTPS, FTP, SFTP, RTP, RTSP, RTCP, SIP, ARP, SSL, NTP, SNMP(V1/V2/V3), 802.1x, QoS, DDNS, SMTP, PPPoE	Management Software (VMS)	ZKBioSecurity IVS ZKBioAccess IVS
Interoperability	ONVIF Profile S, SDK, API	Operation System	Windows
Max. Online Users	10	Web Browser	IE / Firefox / Chrome

Interface

Ethernet	1 RJ-45 port (10/100Mbps)	Reset Button	N/A
Audio I/O	Built-in Micphone	Micro-SD Slot	Max 256GB
Alarm I/O	N/A	ANR	Support
RS485	N/A	USB	N/A

General

Power Supply	PoE (IEEE802.3af), DC 12V±10%	Working Temperature	-30℃ to 55℃
Power Consumption	<5W	Working Humidity	5% to 95%
Ingress Protection	IP67	Net Weight	0.38kg
Dimensions	Φ102 * 98 (mm)	Gross Weight	0.5kg

Order Information

Camera	Model	Description
2MP Camera	DDS222-01	2MP Advanced Algorithm Face Detection Turret IP camera

Dimensions (mm)