



System Overview

The IR Megapixel Motorized camera delivers 2MP/4MP/5MP resolution with a 2.7mm-13.5mm motorized lens. The camera's elegant blend of aesthetics combined with a range of easy mounting solutions provides an excellent choice for a variety of small to mid-size applications at an affordable price.

Functions

Smart H.265+

Smart H.265+ is the optimized implementation of the H.265 codec that uses a scene-adaptive encoding strategy, dynamic GOP, dynamic ROI, flexible multi-frame reference structure and intelligent noise reduction to deliver high-quality video without straining the network. Smart H.265+ technology reduces bit rate and storage requirements by up to 70% when compared to standard H.265 video compression.

Starlight Technology

For challenging low-light applications, WATASHI's Starlight Ultra-low Light Technology offers best-in-class light sensitivity, capturing color details in low light down to 0.006lux. The camera uses a set of optical features to balance light throughout the scene, resulting in clear images in dark environments.

Intelligent Video analysis (IVS)

WATASHI camera is equipped with a built-in intelligent analytic algorithm based on video, which can realize intelligent functions like Tripwire and Intrusion, to quickly and accurately respond to monitoring events in specific area, It can enhance monitoring efficiency. In addition, the camera supports intelligent tamper detection, which is to generate warning message via detecting dramatic scene change and to guarantee effective video surveillance.

Wide Dynamic Range (WDR)

The camera achieves vivid images, even in the most intense contrast



2MP WDR IR Dome Network Camera

- · 1/2.8" 2Megapixel progressive Starvis™ CMOS
- · H.265 & H.264 dual-stream encoding
- · 25/30fps@1080P(1920×1080)
- · WDR(120dB), Day/Night(ICR), 3DNR, AWB, AGC, BLC
- · Multiple network monitoring: Web viewer, CMS(DSS/PSS) & DMSS
- · Micro SD card slot, up to 128GB
- · 2.7~13.5mm motorized lens
- · Max IR LEDs Length 30m
- · IP67, IK10, PoE















lighting conditions, using industry-leading wide dynamic range (WDR) technology. For applications with both bright and low lighting conditions that change quickly, true WDR (120 dB) optimizes both the bright and dark areas of a scene at the same time to provide usable video.

Smart IR Technology

With IR illumination, detailed images can be captured in low light or total darkness. The camera's Smart IR technology adjusts the intensity of camera's infrared LEDs to compensate the distance of an object. Smart IR technology prevents IR LEDs from whitening out images as they come closer to the camera. The camera's integrated infrared illumination provides high performance in extreme low-light environments up to 50m (164ft).

Protection (IP67, IK10, wide voltage)

The camera allows for $\pm 10\%$ input voltage tolerance, suitable for the most unstable conditions for outdoor applications. Its 2KV lightning rating provides effective protection for both the camera and its structure against lightning. Subjected and certified to rigorous dust and immersion tests (IP67) and impact tests (IK10), the camera is the choice for installation in even the most unforgiving environments.

Environmental

WATASHI cameras operate in extreme temperature environments, rated for use in temperatures from -30° C to +60° C (-22° F to +140° F) with 95% humidity.

Interoperability

The camera conforms to the ONVIF (Open Network Video Interface Forum) specifications, ensuring interoperability between network video products regardless of manufacturer.







Technical Specification					White Balance	Auto/Natural/Street Lamp/Outdoor/Manual	
Camera					Gain Control	Auto/Manual	
Image Sensor		1/2.8" 2Megapi	ixel progressive	CMOS		Noise Reduction	3D DNR
Effective Pixels		1920(H) x1080(V)				Motion Detection	Off / On (4 Zone, Rectangle)
RAM/ROM		256MB/32MB				Region of Interest	Off / On (4 Zone)
Scanning System		Progressive				Electronic Image	N/A
Electronic Shutter Speed		Auto/Manual, 1/3~1/100000s				Stabilization(EIS)	
Minimum Illumination		0.006Lux/F1.4 (0.05Lux/F1.4 0.				Smart IR	Support
		OLux/F1.4(IR on		,, , ,		Digital Zoom	16x
S/N Ratio		More than 50dl	3			Flip	0°/90°/180°/270°
IR Distance		Distance up to 3	30m(98ft)			Mirror	Off / On
IR On/Off Control		Auto/ Manual				Privacy Masking	Off / On (4 Area, Rectangle)
IR LEDs		2				Audio	
Lens						Compression	G.711A/G.711Mu/G.726/AAC
Lens Type		Motorized(-ZS),	Motorized(-ZS),Manual(-VFS)			Network	
Mount Type		Board-in	Board-in			Ethernet	RJ-45 (10/100Base-T)
Focal Length		2.7mm~13.5mr	m			Protocol	HTTP;TCP;ARP;RTSP;RTP;UDP;RTCP;SMTP;FTP; ;DNS;DDNS;PPPOE;IPv4/v6;SNMP;QoS;UPnP;N
Max. Aperture		F1.4				Interoperability	ONVIF, PSIA, CGI
Angle of View		H:106°~29°, V:5	57°~17°			Streaming Method	Unicast / Multicast
Focus Control		Motorized(-ZS),	Manual(-VFS)			Max. User Access	10 Users / 20 Users
Close Focus Distar	nce	0.2m	0.2m				NAS
	Lens	Detect	Observe	Recognize	Identify	Edge Storage	Local PC for instant recording Micro SD Card 128GB
DORI Distance	W	46m(151ft)	18m(59ft)	9m(30ft)	5m(16ft)	Web Viewer	IE, Chrome, Firefox, Safari
	Т	153m(502ft)	61m(200ft) 3	30m(98ft)	15m(49ft)	Management Software	Smart PSS, DSS, Easy4ip
PTZ						Smart Phone	IOS, Android
Pan/Tilt Range		Pan:0° ~355° ;T	ilt:0° ~75° ;Rotat	tion:0° ~355°		Certifications	
Intelligence							CE (EN 60950:2000)
IVS		Tripwire, Intrus	ion			Certifications	UL:UL60950-1 FCC: FCC Part 15 Subpart B
Video						Interface	
Compression		H.265+/H.265/I	H.264+/H.264			Video Interface	N/A
Streaming Capability		2 Streams				Audio Interface	1/1 channel In/Out
Resolution		1080P(1920x10 960)/720P(1280 VGA(640×480)0	0×720)/D1(704×	576/704×480)/		RS485	N/A
Frame Rate		1080P (1 ~ 25/3	30fps)			Alarm	1 channel In: 5mA 5VDC 1 channel Out: 300mA 12VDC
		D1/CIF(1 ~ 25/3	80fps)			Electrical	
Bit Rate Control		CBR/VBR				Power Supply	DC12V PoE (802.3af)(Class 0)
Bit Rate		H.265: 12K ~ 64 H.264: 32K ~ 10				Power Consumption	<8.3W(-ZAS), <5.8W(-VFAS)
Day/Night		Auto(ICR) / Cold	or / B/W				
BLC Mode		BLC / HLC / WD	R(120dB)				

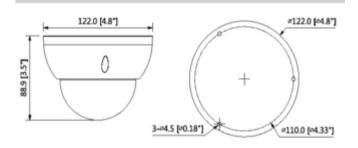
Environmental

Operating Conditions	-30° C $^{\sim}$ +60° C (-22° F $^{\sim}$ +140° F) / Less than 95% RH
Strorage Conditions	-30° C $^{\sim}$ +60° C (-22° F $^{\sim}$ +140° F) / Less than 95% RH
Ingress Protection	IP67
Vandal Resistance	IK10

Construction

Casing	Metal
Dimensions	ф122mm×88.9mm(4.80"x3.50")
Net Weight	0.4Kg (0.88lb)
Gross Weight	0.54Kg(1.19lb)

Dimensions (mm/inch)



Accessories

Optional:











Function Box

Wall mount

Pole mount In-celling Box

Rain shade

