



## IWH-21LIR

2 MP IR Fixed Bullet Wi-Fi Network Camera,  
 Colour: 0.028 Lux @(F2.0, AGC ON),  
 BLC/HLC/3D-DNR, IP66.

1/2.7" Progressive Scan CMOS  
 1920 × 1080  
 2.8 mm fixed lens  
 H.265+, H.265, H.264+, H.264  
 3D-DNR  
 Built-in microSD/SDHC/SDXC card slot  
 IR range: 30 m  
 IP66

### Camera

Image Sensor	1/2.7" Progressive Scan CMOS
Min. Illumination	Colour: 0.028 Lux @(F2.0, AGC ON),
Shutter Speed	1/3 ÷ 1/100,000 s
Slow Shutter	Yes
Day & Night	IR Cut Filter
WDR	D-WDR
3-Axis Adjustment	<i>Pan: 0° ÷ 360°; Tilt: -90° ÷ 100°; Rotation: 0° ÷ 90°</i>

### Lens

Focal length	2.8 mm
Aperture	F2.0
Focus	Fixed
FOV	<i>Horizontal field of view: 114.5° Vertical field of view: 62° Diagonal field of view: 135.5°</i>
Lens Mount	M12

### Audio

Environment Noise Filtering	Yes
Audio Sampling Rate	8 kHz/16 kHz

### IR

IR Range	Up to 30 m
Wavelength	850 nm

### Compression Standard

Video Compression	<i>Main stream: H.265+/H.265/H.264+/H.264 Sub-stream: H.265/H.264</i>
H.264 Type	Baseline Profile/Main Profile
H.265 Type	Baseline Profile
H.264+	Main Stream supports
H.265+	Main Stream supports
Video Bit Rate	32 Kbps to 8 Mbps
Audio Compression	G.711/G.722.1/G.726/MP2L2/PCM
Audio Bit Rate	64 Kbps (G.711)/16 Kbps (G.722.1)/16 Kbps (G.726)/32 ÷ 160 Kbps (MP2L2)

### Network

Network Storage	Support microSD/SDHC/SDXC card (max. 256 GB), local storage and NAS (NFS, SMB/CIFS), auto network replenishment (ANR)
Alarm Trigger	Motion detection, illegal login
Protocols	TCP/IP, ICMP, DHCP, DNS, DDNS, HTTP, RTP, RTSP, NTP, UPnP, IGMP, IPv6, UDP, QoS, Bonjour
API	ISAPI
Simultaneous Live View	Up to 6 channels
User/Host	Up to 32 users 3 levels: Administrator, Operator and User
Client	Wired network: CTR-MAZI, CMS-MAZI Wi-Fi: CMS-MAZI
Web Browser	Plug-in required live view: IE8, IE9, IE10, IE11 Local service: Chrome 57.0+, Firefox 52.0+

General Function	Anti-flicker, heartbeat, mirror, password protection, password reset via e-mail
Firmware Version	V5.5.101

### Smart Features

Alarm Trigger	Motion detection, network disconnected, IP address conflict, illegal login, HDD full, HDD error
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### Image

Max. Resolution	1920 × 1080
Main Stream	50 Hz: 25 fps (1920 × 1080, 1280 × 720) 60 Hz: 30 fps (1920 × 1080, 1280 × 720)
Sub-Stream	50 Hz: 25 fps (640 × 360) 60 Hz: 30 fps (640 × 360)
Image Enhancement	BLC, HLC, 3D-DNR
Image Setting	Saturation, brightness, contrast, sharpness, AGC, white balance adjustable by client software or web browser
Day/Night Switch	Day/Night/Auto/Scheduled

### Wi-Fi (-W)

Wireless Standards	IEEE 802.11b/g/n
Frequency Range	2.4 GHz to 2.4835 GHz
Protocols	802.11b: CCK, DQPSK, DBPSK 802.11g/n: 64-QAM, 16-QAM, QPSK, BPSK
Transfer Rates	11b: 11 Mbps 11g: 54 Mbps 11n: up to 150 Mbps
Security	64/128-bit WEP, WPA/WPA2, WPA-PSK/WPA2-PSK, WPS
Channel Bandwidth	20 MHz/40 MHz
Wireless Range	Up to 80 m (The performance varies based on actual environment)

### Interface

On-board Storage	Built-in micro SD/SDHC/SDXC slot, up to 128 GB
Reset Button	Yes
Communication Interface	1 RJ45 10 M/100 M self-adaptive Ethernet port
Audio	1 Built-in microphone, mono sound

### General

Operating Conditions	-30 °C ÷ +60 °C (-22 °F ÷ +140 °F), humidity 95% or less (non-condensing)
Power Supply	12 Vdc ± 25%, Φ 5.5 mm coaxial plug power PoE (802.3af, class 3)
Power Consumption and Current	12 VdC, 0.4 A, max. 5 W PoE (802.3af, 36V to 57V), 0.4 A to 0.2 A, max. 12.9 W
Material	Front cover: metal; Back cover: plastic
Dimensions	Camera: 177.6 × 68 × 66 mm (7" × 2.7" × 2.6") Package: 264 × 129 × 120 mm (10.4" × 5.1" × 4.7")
Weight	Camera: approx. 270 g (0.6 lb.) With package: approx. 470 g (1 lb.)

### Approval

Protection	Ingress protection: IP66 (IEC 60529-2013)
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