



5MP WDR IR Network Camera

Model Number: IPV-51-IR

System Specifications

SoC	Ambarella
CPU	Quad core CA53 816Mhz
ROM	256MB/2Gb NAND Flash
RAM	512MB/4Gb DDR III

Optical Specifications

Image Sensor	1/2.7" Progressive CMOS
Effective Pixels	5Mp (2592x1944) 4Mp (2560x1920)
Lens Type	Motorized, Vari-focal, Remote Focus
Focal Length	2.8-12mm
Aperture	F 1.4 (Wide) - F 2.8 (Tele)
Iris Type	Fixed-Iris
Auto Focus	FW Control
Field of View	Horizontal 88-30° (2560*1920) Vertical 65-23° (2560*1920) Diagonal 115-38° (2560*1920)
Ambient Light Sensor	Support
IR Cut Filter	IR cut filter with auto switch

Video Specifications

Compression	H.265, H.264, MJPEG
Encode Performance	H.264 4Mp (2560x1920) @25/30fps + 480p @25/30fps

LED Specifications

IR Illuminators	Type: Built-in IR illuminators Working Distance: effective up to 30m (98ft) with full FOV coverage Wavelength: 850nm
LED Indicator	System power and status indicator

Connectivity Specifications

Interface	RJ-45, 10/100Mbps (Base-T) Ethernet
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Audio Specifications

Capability	Two-way Audio (Full Duplex)
Compression	G.711
Interface	Input: Audio Line In Output: Audio Line Out
Effective Range	5 Meters

Network Specifications

Users Account	Live Viewing for Up to 10 Clients
Protocols	IPv4, IPv6, TCP, UDP, DHCP, NTP, DNS, ICMP, ARP, SSL/TLS, HTTP, HTTPS, RTSP, RTP, RTCP, SMTP, FTP, SNMP
ONVIF	Profile G, S, T

Power Specifications

Power Input (Wire)	IEEE 802.3af PoE Class 0 DC 12V
Power Consumption	PoE: 13W (Max.), DC 12V: 9W (Max.)



Mechanical Specifications

Pan/Tilt/Rotation Range	Pan Range 0-355 Tilt Range 0-75 Rotation Range 0-355
Button	WPS/Reset: 1 (Reset/Factory Reset) Push/Ring: N/A
Connectors	Power: RJ-45 cable connector for Network/PoE connection Ethernet: RJ-45 cable connector for Network/PoE connection Alarm: N/A Audio I/O (Option): Audio Line In/Out *
On-board Storage	Slot type: MicroSD/SDHC/SDXC card slot

Camera Features

Shutter Time	1/5 sec. to 1/32,000 sec.
Video Streams	H.264 4Mp (2560x1920) @25/30fps 5Mp (2592x1944) @20fps
Streaming Settings	Adjustable resolution, quality and constant bit rate control, Amba Smart Rate Control V2
Day/Night Threshold	True Day/Night
Noise Reduction	Amba MCTF 3D noise filter
S/N Ratio	> 55 dB
WDR Technology	Amba WDR: SoC fusion two images at different exposure levels from image sensor
Wide Dynamic Range	120 dB
Image Settings	Time stamp overlay, flip & mirror, video rotation; Configurable brightness, contrast, saturation, sharpness, white balance, exposure control, gain, backlight compensation, privacy masks; 3DNR, DIS, HLC
Minimum Illumination	0.075 lux @ F1.4 (Color, Linear mode 30 IRE) <TBD lux @ F1.4 (B/W) 0 Lux with IR illumination on
Pan/Tilt/Zoom Functionalities	ePTZ: 12x digital zoom (12x on IE plug-in)

Alarm Events

Alarm Triggers	Intelligent Video Triggers, Audio Detection, System Boot, Manual Trigger*
Alarm Events	HTTP, SMTP, FTP, MicroSD Card

System Requirements

Operating System	Microsoft Windows 8/7/Vista/XP/2000
Web Browser	Mozilla Firefox 7~43 (streaming only) Internet Explorer 7/8/9/10/11
Other Players	VLC: 1.1.11 or above QuickTime: 7 or above

General

Dimensions	Ø133.15 x 99.82 mm
Weight	1.12kg
Temperature	Start-Up: -30°C ~ 50°C (-22°F ~ 122°F) Operating: -30°C ~ 50°C (-22°F ~ 122°F)
Humidity	95%RH
Ingress Protection	IP66
Regulatory	CE, FCC Class B, REACH, RoHS, Prop65

Included Accessories

Others QIG, warranty card, alignment sticker, desiccant bag, screw driver, screws pack

Intelligent Video Analytics

Motion Detection	Video Motion Detection*
Auto-Tracking	Camera Tamper Detection*
Intrusion Detection	Multi-Zone Intrusion Detection*
Object Classification	Human, Vehicle, and Pet Detection*
Other Video Analytics	Line Crossing, Loitering, Object Left, Object Removed*
Face Recognition*	Face Detection and Recognition (Optional)*
License Plate Recognition*	Multi-Country License Plate Recognition (Optional)*

* mark for optional items

Product specification and availability are subject to change without notice.

