WV-S1536LT

2MP (1080p) Outdoor Bullet Network Camera

The new Standard by i-PRO video surveillance

- 2MP (1080p)
- Intelligent Auto (with AI Engine)
- Super Dynamic 144dB
- Color night vision (0.011 to 0.015 lx)
- Smart Coding (with AI Engine)
- Built-in IR LED
- IK10 Vandal Resistant
- NDAA Compliant

SPECIFICATIONS

Camera	
Image Sensor	Approx. 1/2.8 type CMOS image sensor
Minimum Illumination	Color : 0.011 lx (30IRE, F1.7, 1/30s) Color : 0.015 lx (50IRE, F1.7, 1/30s) BW : 0.008 lx (50IRE, F1.7, 1/30s) BW : 0 lx (50IRE, F1.7,1/30s with IR LED)
White Balance	ATW1/ ATW2/ AWC
Shutter Speed	[60 fps Mode] 1/60 Fix to 1/10000 Fix, [30 fps/15 fps mode] 1/30 Fix to 1/10000 Fix [50 fps Mode] 1/50 Fix to 1/10000 Fix, [25 fps/12.5 fps mode] 1/25 Fix to 1/10000 Fix
Intelligent Auto	On / Off
Super Dynamic	On / Off, The level can be set in the range of 0 to 31.
Dynamic Range	Max.144 dB (Super Dynamic : On, Level 31)
Adaptive Black Stretch	The level can be set in the range of 0 to 255.
Back Light Compensation/High Light Compensation	BLC (Back light compensation) / HLC (High light compensation) / Off (only when Super dynamic / Intelligent Auto : Off)
Fog Compensation	On / Off (only when Intelligent auto / auto contrast adjust : Off)
Maximum Gain	The level can be set in the range of 0 to 11.
Color/BW (ICR)	Off / On (IR Light Off) / On (IR Light On) / Auto1 (IR Light Off) / Auto2 (IR Light On) / Auto3 (SCC)
IR LED Light	High / Middle / Low / Off, Maximum irradiation distance : 70 m {Approx. 230 ft} (30IRE) , 50 m {Approx. 164 ft} (50IRE)
Digital Noise Reduction	The level can be set in the range of 0 to 255.
Video Motion Detection (VMD)	On / Off, 4 areas available
Scene Change Detection (SCD)	On / Off, 1 areas available
Audio Detection	On / Off
AI Sound Classification	Gunshot, Yell, Vehicle horn, Glass break
AI Analytics	Yes
Privacy Zone	On / Off, Up to 8 zones available
VIQS	On / Off, Up to 8 zones available
Image Rotation	0 ° / 90 ° / 180 ° / 270 °
Camera Title (OSD)	On / Off, Up to 40 characters (alphanumeric characters, marks)

Lens	
Optical zoom	2.3x (Motorized zoom / Motorized Focus)
Extra zoom	2.3x - 6.9x (when resolution is 640 x 360)
Focal length	9 - 21 mm {11/32 inches - 13/16 inches}
Angular Field of View	[16 : 9 mode] Horizontal : 15° (TELE) – 36° (WIDE), Vertical : 9° (TELE) – 20° (WIDE) [4 : 3 mode] Horizontal : 11° (TELE) – 27° (WIDE), Vertical : 9° (TELE) – 20° (WIDE)

Maximum Aperture Ratio	1 : 1.7 (WIDE) – 1 : 3.0 (TELE)
Focus range	2 m {78-3/4 inches} – ∞

DORI

Detect (25ppm / 8ppf)	Wide: 118.2 m / 387.7 ft, Tele: 291.7 m / 956.9 ft
Observe (62.5ppm / 19ppf)	Wide: 47.3 m / 155.1 ft, Tele: 116.7 m / 382.8 ft
Recognize (125ppm / 38ppf)	Wide: 23.6 m / 77.5 ft, Tele: 58.3 m / 191.4 ft
Identify (250ppm / 76ppf)	Wide: 11.8 m / 38.8 ft, Tele: 29.2 m / 95.7 ft

System on Chip (SoC)

System on Chip (SoC)	Ambarella CV25M

Adjusting Angle

Ceiling mounting	Horizontal : ±180 ° (PAN rotation part) Vertical : 0 ° to 100 ° (TILT rotation part) Yaw : −190 ° to +100 ° (YAW rotation part)
Wall mounting	Horizontal : ±100 ° (TILT rotation part)* Vertical : ±100 ° (TILT rotation part)* Yaw : −190 ° to +100 ° (YAW rotation part) * You can change between horizontal and vertical angels by adjusting the PAN rotation part.

Browser GUI

Camera Control	Brightness, AUX On / Off
Audio	Mic (Line) Input : On / Off Volume adjustment : Low / Middle / High Audio Output : On / Off Volume adjustment : Low / Middle / High
GUI / Setup Menu Language	English, Italian, French, German, Spanish, Portuguese, Russian, Chinese, Japanese
Browser	Microsoft Edge, Firefox, Google Chrome

Network

Network IF	10Base-T / 100Base-TX, RJ45 connector
Resolution H.265/ H.264/ JPEG (MJPEG)	[16 : 9 mode (60 fps mode)] , [16 : 9 mode (30 fps mode)], [16 : 9 mode (50 fps mode)] , [16 : 9 mode (25 fps mode)] 1920x1080, 1280x720, 640x360, 320x180 [4 : 3 mode (30 fps mode)], [4 : 3 mode (25 fps mode)] 1280x960, VGA, QVGA [4 : 3 mode (15 fps mode)], [4 : 3 mode (12.5 fps mode)] 2048x1536 , 1280x960, VGA, QVGA
H.265/H.264	[Transmission Mode]Constant bit rate / VBR / Frame rate / Best effort [Transmission Type]Unicast port (AUTO) / Unicast port (MANUAL) / Multicast
JPEG	[Image Quality]10 steps
Smart Coding	GOP (Group of pictures control): Off/ Low (Variable GOP 1s-8s)/ Mid (Variable GOP 4s-16s)/ Advanced(Fixed GOP 60s w/1s key-frame)/ Frame rate control (Variable GOP 4s-16s with frame rate control) *Advanced and Frame rate control are only available with H.265. Smart VIQS: On(High)/On(Low)/Off, Smart P-picture control: On/Off
Audio Compression	G.726 (ADPCM) : 16 kbps / 32 kbps G.711 : 64 kbps AAC-LC : 64 kbps / 96 kbps / 128 kbps
Audio Transmission Mode	Off / Mic (Line) input / Audio output / Interactive (Half duplex) / Interactive (Full duplex)
Supported Protocol	IPv6 : TCP/IP, UDP/IP, HTTP, HTTPS, SSL/TLS, SMTP, DNS, NTP, SNMPv1/v2/v3, DHCPv6, RTP, MLD, ICMP, ARP, IEEE 802.1X, DiffServ, SFTP, MQTT, LLDP IPv4 : TCP/IP, UDP/IP, HTTP, HTTPS, SSL/TLS, RTSP, RTP, RTP/RTCP, SMTP, DHCP, DNS, DDNS, NTP, SNMPv1/v2/v3, UPnP, IGMP, ICMP, ARP, IEEE 802.1X, DiffServ, SRTP, SFTP, MQTT, LLDP

Secure	Device Certificate GlobalSign® pre-installed, User authentication,Host authentication, HTTPS, 802.1X Support, Data encryption
No. of Simultaneous Users	Up to 14 users (Depends on network conditions)
SDXC/SDHC/SD Memory Card	H.265 / H.264 recording : Manual REC / Alarm REC (Pre/Post) / Schedule REC / Backup upon network failure JPEG recording : Manual REC / Alarm REC (Pre/Post) / Backup upon network failure Compatible SDXC/SDHC/SD Memory Card : microSDXC memory card : 64 GB, 128 GB, 256 GB, 512 GB microSDHC memory card : 4 GB, 8 GB, 16 GB, 32 GB microSD memory card : 2 GB
Mobile Terminal Compatibility	iPad, iPhone, Android™ terminals
ONVIF® Profile	G / M / S / T

Alarm

Alarm Source	3 terminals input, VMD alarm, Command alarm, Audio detection alarm
Alarm Actions	SDXC/SDHC/SD memory recording, E-mail notification, HTTP alarm notification Indication on browser, TCP alarm notification output

Input/Output

Monitor Output (for Adjustment)	VBS : 1.0 V [p-p] / 75 Ω, composite, Pin jack An NTSC or PAL signal can be outputted from camera
Audio input	ø3.5 mm stereo mini jack For microphone input : Recommended applicable microphone : Plug-in power type (Sensitivity of microphone : –51 dB to –38 dB (0 dB=1 V/Pa, 1 kHz)) Input impedance : Approx. 2 kΩ (unbalanced) Supply voltage : 2.5 V ±0.5 V For line input : Input level: Approx. –10 dBV
Audio Output	ø3.5 mm stereo mini jack (monaural output) Output impedance : Approx. 600 Ω (unbalanced) Output level : –20 dBV
External I/O Terminals	ALARM IN 1 (Alarm input 1/ Black & white input/ Auto time adjustment input) (x1) ALARM IN 2 (Alarm input 2/ ALARM OUT) (x1) ALARM IN 3 (Alarm input 3/ AUX OUT) (x1)

General

Safety	UL (UL62368-1), c-UL (CSA C22.2 No.62368-1), CE, IEC62368-1
EMC	FCC (Part15 ClassA), ICES-003 ClassA, EN55032 ClassA, EN55035
Power Source and Power Consumption	DC power supply : DC12 V 900 mA, Approx. 10.8 W PoE (IEEE802.3af compliant) Device : DC48 V 220 mA, Approx. 10.6 W (Class 0 device)
Ambient Operating Temperature	-40 ℃ to +60 ℃ (-40 °F to 140 °F) (Power On range : –30 ℃ to +60 ℃ {–22 °F to +140 °F})
Ambient Operating Humidity	10 to 100 % (no condensation)
Anti-Condensation System	Temish element + Heater + moisture absorption gel
Water and Dust Resistance	IP66, IEC60529 measuring standard compatible, Type 4X(UL50E), NEMA 4X compliant
Shock Resistance	IK10 (IEC 62262)
Dimensions	ø133 mm (W) x 133 mm (H) x 383 mm (D) {ø5-1/4 inches (W) x 5-1/4 inches (H) x 15-3/32 inches (D)}
Mass (approx.)	Approx. 2.4 kg {5.3 lbs.}
Finish	Main body : Aluminum die cast and resin, i-PRO white Outer fixing screws : Stainless steel (Corrosion-resistant treatment) Front panel : Polycarbonate resin, Clear

AI Analytics applications	
AI Video Motion Detection (AI-VMD)	YES
AI Privacy Guard	YES
AI Face Detection	YES
AI People Detection	YES
AI Vehicle Detection	YES
AI Non mask Detection	YES
AI Occupancy Detection	YES

NOTES

Important

– Safety Precautions : Carefully read the Basic Information,Installation Guide and Operating Instructions before using this product.

– i-PRO Co., Ltd. cannot be held responsible for the performance of the network and/or other manufacturers' products used on the network.

– Masses and dimensions are approximate.

– Specifications are subject to change without notice.

Trademarks and registered trademarks

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OPTIONAL ACCESSORIES

Select a compatible accessory
[Accessory Selector (i-pro.com)](i-pro.com)

WV-QPL500-W	WV-QCN500-W	WV-QCA501A	WV-QCA500A	WV-PM500
Mount Bracket	Mount Bracket	I/O Cable	RJ45 Ethernet Cable	Compact microphone unit for surveillance cameras

APPEARANCE
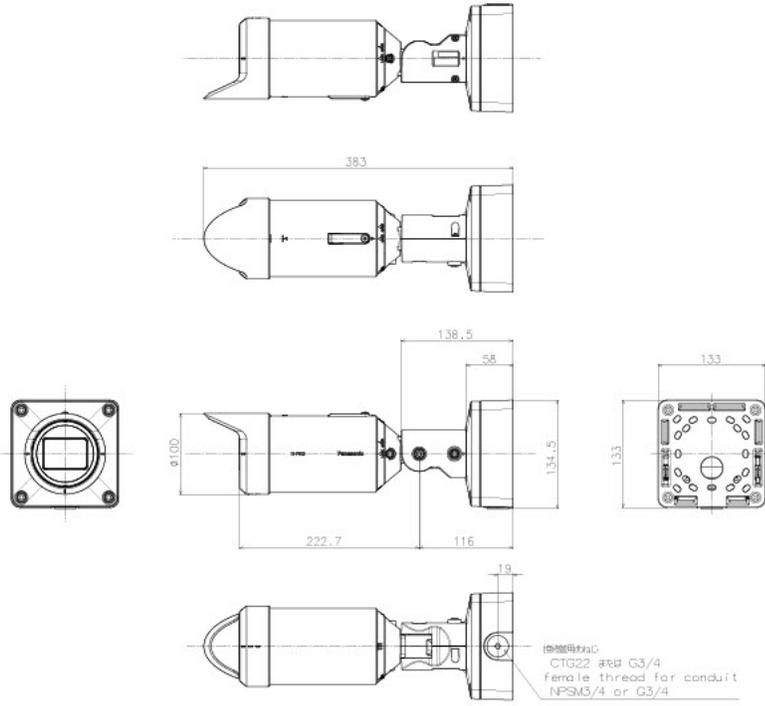
	投影面積/Projected area	
平面図/Top-view	0.033	(m2)
側面図/Side-view	0.030	(m2)

Mass : Approx. 2.4 kg (5.3 lbs)

WV-S1536LTN