







5MP Bullet Camera

## **Technical Specifications**

System Information	
CPU	Multimedia SoC (System-on-Chip)
Flash	8 GB
RAM	2 GB

Image Sensor1/2.8" Progressive CMOSMox. Resolution2560x1920 (5MP)Lens TypeFixed-focalFocal Lengthf = 2.8 mmApertureF2.0Iris TypeFixed irisField of View103.4" (Horizontal) 75.3" (Vertical) 135.2" (Diagonal)Shutter Time1/5 sec. to 1/32,000 sec.WDR TechnologyWDR ProDay/NightYesRemovable IR-cut filterYesIlluminatorsBuilt-in IR illuminators, effective up to 40 meters with Smart IR, IR LED*4Minimum Illumination0.055 Lux @ F2.0 (Color) 0.005 Lux @ F2.0 (Gl/Y) 0 Lux with IR illumination onTilt Range80°Rotation Range950°Pan/Tilt/Zoom FunctionalitiesePTZ: 48x digital zoom (4x on IE plug-in, 12x built-in)StorageSeemless Recording to MicroSD/SDHC/SDXC card (1TB capacity supported) and recording to network-attached storage (NAS)Built-in Installation AidsPixel calculator	Camera Specifications	
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Pan/Tilt/Zoom Functionalities   ePTZ: 48x digital zoom (4x on IE plug-in, 12x built-in)     Storage   Seamless Recording to MicroSD/SDHC/SDXC card (1TB capacity supported) and recording to network-attached storage (NAS)	Tilt Range	80°
Storage   Seamless Recording to MicroSD/SDHC/SDXC card (1TB capacity supported) and recording to network-attached storage (NAS)	Rotation Range	350°
Storage network-attached storage (NAS)	Pan/Tilt/Zoom Functionalities	ePTZ: 48x digital zoom (4x on IE plug-in, 12x built-in)
Built-in Installation Aids Pixel calculator	Storage	
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Video	
Compression	H.265, H.264, MJPEG
Maximum Frame Rate	30 fps @ 2560x1920 (5MP)
Maximum Streams	3 video streams (Up to 8 configurable profiles)
Main Stream	30fps @2560x1920,2048x1536,1920x1440,1600x1200,1280x960,800x600,640x480 (4:3) 30fps @ 2560x1440, 1920x1080, 1600x904, 1360x768,1280x720, 640x360 (16:9) 60 fps @ 1920x1080, 1600x904, 1360x768, 1280x720, 640x360 (16:9)
3rd Stream	30fps @ 1920x1440, 1600x1200, 1280x960, 800x600, 640x480 (4:3); 30fps @ 1920x1080, 1600x904, 1360x768, 1280x720, 640x360 (16:9) 60 fps @ 1280x720, 640x360 (16:9)
2nd Stream	30fps @ 1280x960, 800x600, 640x480 (4:3); 30 fps @ 1280x720, 640x360 (16:9); 60 fps @ 1280x720, 640x360 (16:9)
S/N Ratio	55 dB
Dynamic Range	120 dB
Video Streaming	Adjustable resolution, quality and constant bit rate control, Smart Stream III
	General settings video title and time stamp overlay, video orientation (flip, mirror, rotation), day/night settings
	Illuminators illuminators, anti-overexposure, VCA-based Smart IR III
	lmage settings white balance, image adjustment (brightness, contrast, saturation, sharpness, gamma curve), defog, 3DNR, EIS (built-in gyro sensor), scene mode (auto, deblur)
Image Settings	Exposure BLC, HLC, exposure control (exposure level, iris adjustment, exposure time, gain control, iris mode), AE speed adjustment, WDR
	Focus zoom, focus
	Privacy mask pixel calculator Scheduled profile settings

Audio	
Audio Capability	Two-way audio (Full duplex)
Compression	G.711, G.726, MPEG-2 AAC-LC
Interface	Built-in microphone External microphone Input External line output
Effective Range	5 meters

Network	
Users	Live viewing for up to 10 clients
Security	Access list, CSRF protection, digest authentication, HTTPS , IEEE 802.1x, Password protection, secure boot, signed firmware, Trend Micro IoT Security (brute force attack event, cyberattack event, quarantine event), user access log, user account management, Built-in FIPS 140-2 Level 2 certified Trusted Platform Module (TPM)
Protocols	802.1X, ARP, Bonjour, CIFS/SMB, DDNS, DHCP, DNS, FTP/SFTP, HTTP, HTTPS, ICMP, IGMPv3, IPv4, IPv6, , NTP, PPPoE, QoS (CoS/DSCP), RTSP/RTP/RTCP, SMTP, SNMP, SSL, TCP/IP, TLS 1.2/1.3, UDP, UPnP
Interface	10 Base-T/100 Base-TX Ethernet (RJ-45) *It is highly recommended to use standard CAT5e & CAT6 cables which are compliant with the 3P/ETL standard.
ONVIF	Profile G, S, T supported, specification available at www.onvif.org

Al Analytics	
Compute Capability	SoC with built-in hardware deep learning accelerator
	Object Detection People, Vehicle (4-wheeled, 2-wheeled)
Vision Object Analytics	Attribute Extraction People (gender, clothing color, bag, hat), Vehicle (bike, bus, car, motorcycle, truck, color)
	Re-Search Extraction Path Extraction
Application	Deep Learning VCA (Smart Motion Detection, Smart VCA) Smart Motion Detection (Five-window video motion detection, People detection, Vehicle detection, Time filter), Smart VCA (Intrusion detection, Loitering detection, Line crossing detection, Unattended object detection, Missing object detection, Face detection, Crowd detection
Application available with license	Running detection, Parking Violation Detection, Restricted Zone Detection Support for more analytic applications and free trial, please visit vivotek.com/video-analytics
RealSight Engine	Smart IR III, Deblur, WDR, White Balance, Exposure Control

Solution Integration	
VADP Package	Trend Micro (Default, 3-year free trial)
Video modtion detection	Motion Detection (Five-window video motion detection)

	Alarm and Event	
E	Event Trigger	Audio detection, camera tampering detection, cybersecurity events (brute force attack event, cyberattack event, quarantine event), digital input, manual trigger, motion detection, periodical trigger, recording notification, SD card life expectancy, shock detection, system boot
E	Event Action	Event notification via audio clip, camera link, digital output, email, HTTP, FTP/SFTP, NAS server, SD card File upload via email, HTTP, FTP/SFTP, NAS server, SD card

General	
Connectors	RJ-45 cable connector for 10/100 Mbps Network/PoE connection Audio line input Audio line output Digital input: 1 Digital output: 1
LED Indicator	System power and status indicator
Power Input	IEEE 802.3af PoE Class 3
Power Consumption	Max. 12.4W/ 9.6W (IR on/off)
Dimensions	ø 92 x 258.5 mm
Weight	1.03 kg
Certifications	EMC CE (EN55032, EN55035 Class A), UKCA (BS EN 55032/BS EN 55035 Class A), FCC (FCC Part 15 Subpart B Class A), RCM (AS/NZS CISPR32 Class A), VCCI (VCCI-CISPR 32 Class A) IC (ICES-003 Issue 7, Class A) Safety UL (UL62368-1), CB (IEC/EN 62368-1, IEC/EN 62368-1, IEC/EN 62471) UKCA (BS EN IEC 62368-1) Environment IK10 (IEC 62262), IP66, IP67 (IEC 60529)
Operating Temperature	Starting Temperature: -20°C ~ 50°C (-4°F ~ 122°F) Working Temperature: -35°C ~ 60°C (-31°F ~ 140°F) (IR off) -35°C ~ 50°C (-31°F ~ 122°F) (IR on)
Humidity	98% RH (non-condensing)

System Requirements	
Operating System	Microsoft Windows 10/8/7 Mac 10.12 (Chrome only)
Web Browser	Chrome 58.0 or above
Other Players	VLC: 1.1.11 or above

Included Accessories	
Packing Contents	Quick installation guide, alignment sticker, screw pack, cable gland

DORI (EN 62676-4 Standard)	
Detection (25PPM/ 8PPF)	60.4 m (198.1 ft)
Observation (63PPM/ 19PPF)	24.1 m (79.2 ft)
Recognition (125PPM/ 38PPF)	12 m (39.5 ft)
Identification (250PPM/ 76PPF)	6.0 m (19.6 ft)

