# VIVOTEK
**A Delta Group Company**

## V Series

# VIT04A-W

## 4MP Chroma24 AI Turret Camera

## Technical Specifications

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

| Camera Specifications | |
|---|---|
| Image Sensor | 1/1.8" Progressive CMOS |
| Max. Resolution | 2688x1520 (4MP) |
| Lens Type | Fixed-focal |
| Focal Length | f = 4 mm |
| Aperture | F1.0 |
| Iris Type | Fixed Iris |
| Field of View | 103.4° (Horizontal)<br>75.3° (Vertical)<br>135.2° (Diagonal) |
| Shutter Time | 1/5 sec. to 1/32,000 sec. |
| WDR Technology | WDR Pro |
| Day/Night | Yes |
| Removable IR-cut filter | Yes |
| Illuminators | Built-in Warm Light & Infrared (Hybrid) illuminators, effective up to 30 meters with Smart IR/ warm light |
| Minimum Illumination | 0.003lux @ F1.0 (Color)<br>0 lux with IR illumination on |
| Pan Range | >350° |
| Tilt Range | 70° |
| Rotation Range | ±175° |
| 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) |
|---|---|
| Built-in Installation Aids | Pixel calculator |

## Video

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|---|---|
| Compression | H.265, H.264, MJPEG |
| Maximum Frame Rate | 30 fps @ 2688x1520 (4MP) |
| Maximum Streams | 3 video streams (Up to 8 configurable profiles) |
| Main Stream | 30fps @ 2688x1520, 1920x1080, 1600x904, 1360x768,1280x720, 640x360 (16:9) |
| 2nd Stream | 30fps @ 1920x1080, 1600x904, 1360x768,1280x720, 640x360 (16:9) |
| 3rd Stream | 30 fps @ 1280x720, 640x360 (16:9) |
| S/N Ratio | 57 dB |
| Dynamic Range | 120 dB |
| Video Streaming | Adjustable resolution, quality and constant bit rate control, Smart Stream III |
| Image Settings | General settings<br>video title and time stamp overlay, video orientation (flip, mirror, rotation), day/night settings<br><br>Illuminators,smart hybrid, anti-overexposure/smart IR<br>Image settings<br>white balance, image adjustment (brightness, contrast, saturation, sharpness, gamma curve), defog, 3DNR<br><br>Exposure<br>BLC, HLC, exposure control (exposure level, exposure time, gain control), Image sharpener for motion blur, AE speed adjustment, WDR<br><br>Privacy mask<br>Pixel calculator<br>Scheduled profile settings |

## Audio

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|---|---|
| Audio Capability | One-way Audio |
| Compression | MPEG-2 AAC-LC, G.711, G.726 |
| Interface | Built-in microphone |
| 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 |
| Protocols | 802.1X, ARP, Bonjour, CIFS/SMB, DDNS, DHCP, DNS, FTP/SFTP, HTTP, HTTPS, ICMPv4/ICMPv6, 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)<br>*It is highly recommended to use standard CAT5e & CAT6 cables which are compliant with the 3P/ETL standard. |
| ONVIF | Profile G, S, T, M supported, specification available at www.onvif.org |

## AI Analytics

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

## Solution Integration

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

## Alarm and Event

| Event Trigger | Audio detection, camera tampering detection, cybersecurity events (brute force attack event, cyberattack event, quarantine event), manual trigger, motion detection, periodical trigger, recording notification, SD card life expectancy, shock detection, system boot |
|---|---|
| Event Action | Event notification via camera link, email, HTTP, FTP/SFTP, NAS server, SD card<br>File upload via email, HTTP, FTP/SFTP, NAS server, SD card |

## General

| Connectors | RJ-45 cable connector for 10/100 Mbps Network/PoE connection |
|---|---|
| Power Input | IEEE 802.3af PoE Class 3 |
| Power Consumption | Max: 10.7W / 7W (IR on/off)<br>Normal: 5.5W |
| Dimensions | ø 120 x 97 mm |
| Weight | 720 g |
| Certifications | EMC<br>CE (EN 55032/EN 55035 Class A), UKCA (BS EN 55032/BS EN 55035 Class A), FCC (FCC Part 15 Subpart B Class A), RCM (AS/NZS CISPR 32 Class A), VCCI (VCCI-CISPR 32 Class A), IC (ICES-003 Issue 7, Class A)<br>Safety:<br>UL (UL 62368-1), CB (IEC/EN 62368-1, IEC/EN 60950-22, IEC/EN 62471), LVD (IEC/EN 62368-1), UKCA (BS EN 62368-1)<br><br>Environment<br>IK10 (IEC 62262), IP66 (IEC 60529)<br><br>IA<br>BSMI (EMC: CNS 15936, Safety: CNS 15598-1) |
| Operating Temperature | Starting Temperature:<br>-10°C ~ 50°C (14°F ~ 122°F)<br>Working Temperature:<br>-30°C ~ 50°C (-22°F ~ 122°F) (IR off)<br>-30°C ~ 45°C (-22°F ~ 113°F) (IR on) |
| Humidity | 95% |

## System Requirements

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

## Included Accessories

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|---|---|
| Packing Contents | Quick installation guide, alignment sticker, screw pack, cable gland |

## DORI (EN 62676-4 Standard)

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|---|---|
| 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) |

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