



## Summary

The VMAX IP G4 is an NDAA and TAA compliant, easy to use embedded PoE network video recorder (NVR) that allows you to go from power up to monitoring in minutes! Available with 16 Power over Ethernet (PoE) ports, the NVRs can record and manage single-sensor IP cameras up to 4K resolution and comes with up to 4TB internal storage.

## Features

- Complete installation, setup and camera configuration in minutes!
- Record and manage single-sensor IP cameras at real-time 30fps up to 4K
- Local power for up to 16 IP cameras via resident PoE switch
- DW Witness turns a smartphone or tablet into a surveillance camera
- PathFinder easy end-to-end remote connection with NAT Traversal (STUN/TURN) support
- Automatic device discovery
- 2TB and 4TB storage options
- Transfer real-time data using Real Time Streaming Protocol (RTSP)
- Snapshot Notify: Interval camera image verification sent to an email
- Remote management with C3 CMS for Windows and Mac
- Event camera group recording
- System analysis with real-time system, PoE and network status monitoring
- Event notifications via email, text and push notifications
- Mobile Application for iOS and Android devices
- Dual-stream recording
- Easy drag and drop camera management
- Instant backup during playback
- True HD and VGA simultaneous output support
- Compatible with DW Spot Monitoring module for Public View Monitors
- 8 sensor inputs, 4 relay outputs
- Advanced H.265/H.264 Linux embedded NVR
- NVR calculation and auto-recording configuration
- Screen saver to protect monitor screen
- Import/export configuration between multiple NVRs
- Auto or manual firmware upgrade available
- NDAA/TAA compliant
- 5 year limited warranty

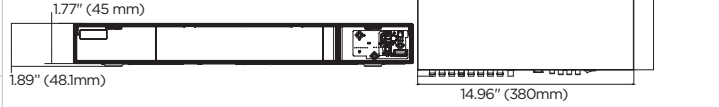
## Accessories (Optional. Sold separately)



DW-G419RE  
19" rack mount ears

## Dimensions

Unit: Inch (mm)



## Specifications

| VIDEO                               |                           |                                                                                                                                                   |
|-------------------------------------|---------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|
| Operating system                    |                           | Embedded Linux                                                                                                                                    |
| System                              | Channel                   | 16 channel                                                                                                                                        |
|                                     | No. of PoE                | 16x 1Gbps, 802.3at PoE inputs                                                                                                                     |
|                                     | Max supported resolution  | IP camera max. 4K (3840x2160)                                                                                                                     |
| Display                             | Speed                     | 480fps                                                                                                                                            |
|                                     | Screen mode               | 1, 4, 9 and 16                                                                                                                                    |
| Video out                           | Monitor                   | True HD and VGA                                                                                                                                   |
|                                     | Resolution                | 3840x2160 (4K), 1920x1080, 1280x1024, 1024x768                                                                                                    |
| System operation                    |                           | USB mouse, PTZ control by keyboard (optional)                                                                                                     |
| PERFORMANCE                         |                           |                                                                                                                                                   |
| Recording speed                     |                           | Up to 480fps up to 4K (2160p) resolution                                                                                                          |
| Max. throughput                     |                           | 160 Mbps                                                                                                                                          |
| Recording streaming                 |                           | Dual-stream                                                                                                                                       |
| Recording modes                     |                           | Continuous, scheduled, sensor and motion detection recording, pre- and post-alarm recording, emergency recording, quick backup                    |
| Playback and search                 | Speed                     | x1, x2, x4, x8, x16, x32, x64, x99                                                                                                                |
|                                     | Channel and resolution    | 1 and 4 main-stream, 9 & 16: sub-stream                                                                                                           |
|                                     | Function                  | Timeline, calendar, event, smart motion, thumbnail search                                                                                         |
| Audio input / output                |                           | 1Ch input (disabled)/1Ch output                                                                                                                   |
| Alarm input / relay output          |                           | 8Ch inputs / 4Ch outputs                                                                                                                          |
| PTZ control                         |                           | RS-485, ONVIF                                                                                                                                     |
| Storage                             | HDD interface             | 2x SATA HDD                                                                                                                                       |
|                                     | Internal storage          | DW-VP16T9KIT412: 4TB<br>DW-VP16T9KIT212: 2TB                                                                                                      |
|                                     | HDD healthcheck           | Real-time temp alert, S.M.A.R.T. with email notifications                                                                                         |
| NETWORK                             |                           |                                                                                                                                                   |
| LAN                                 |                           | 1,000Mbps Ethernet (RJ45)                                                                                                                         |
| Protocols                           |                           | IPv4, TCP/IP, DHCP, HTTP, RTSP, STMP, FTP, Zero Configuration, NTP, DDNS                                                                          |
| Access                              | Web viewer                | Live, playback and configuration, up to 10 connections                                                                                            |
|                                     | Video streaming functions | Dual recording for live and playback and dual stream for local recording and network transmission<br>PathFinder easy end-to-end remote connection |
|                                     | Monitoring software       | C3 CMS, DW Mobile+                                                                                                                                |
| Network functions                   |                           | Live monitoring, remote playback and file backup                                                                                                  |
| Remote system control               |                           | Remote system reboot, system management, notifications and remote PTZ control                                                                     |
| Remote Time sync                    |                           | Time synchronization to an NTP server (pool.ntp.org)                                                                                              |
| Remote system notifications         |                           | Notifications for system health, events and alarms                                                                                                |
| System recovery after power failure |                           | Auto-reboot and journaling file system                                                                                                            |
| Other function                      | Firmware upgrade          | FTP, USB and CMS over Network                                                                                                                     |
|                                     | Back-up                   | Local backup by USB, network backup by CMS<br>Import and export settings, watermark and AVI file backup                                           |
|                                     | Special features          | Snapshot Notify: Interval camera image verification<br>Event and push notifications via email, text and C3<br>Digital Zoom in live and playback   |
|                                     | Mobile client             | DW Mobile+ app<br>DW Witness turns any smart device into a surveillance camera                                                                    |
|                                     | Health check              | Real-time system, network and PoE status monitoring                                                                                               |
| GENERAL                             |                           |                                                                                                                                                   |
| Operating temperature and humidity  |                           | 32-113 °F (0-45 °C) / 10-90% RH                                                                                                                   |
| Certification                       |                           | CE, FCC, KCC, NDAA, TAA                                                                                                                           |
| System                              | Power requirement         | 54V DC, 3.33A                                                                                                                                     |
|                                     | Power consumption         | 180W (recorder + PoE ports)                                                                                                                       |
| PoE                                 | Max power per port        | 802.3at POE+ (Class4), up to 30W per port                                                                                                         |
|                                     | Total PoE power budget    | 150W                                                                                                                                              |
| Dimension (W x D x H)               |                           | 14.96" x 10.55" x 1.77" (380 x 268 x 45 mm)                                                                                                       |
| Warranty                            |                           | 5 year limited                                                                                                                                    |





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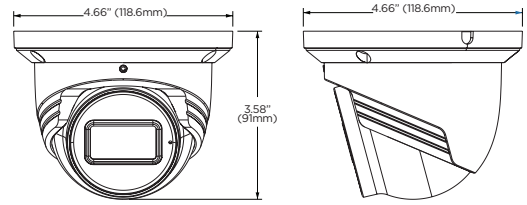
These MEGApix IP cameras are NDAA compliant and deliver crystal-clear images at 5MP resolution and real-time 30fps. The IP67-rated turret camera features 2.8mm and 3.6mm fixed lens options and a 360° camera gimbal for absolute view adjustment. Added intelligence includes line crossing, perimeter intrusion, video tampering detection and object classification.

## Features

- 5MP 1/2.7" image sensor at real-time 30fps
- 2.8mm fixed lens
- True Wide Dynamic Range (WDR)
- Multiple codecs (H.265, H.264, MJPEG) with simultaneous dual-stream
- 100ft range Smart IR
- Object classification video analytics
- Line crossing and perimeter intrusion video analytics
- Perimeter intrusion video analytics
- Video tampering with scene change, video blur and abnormal color detection
- Smart DNR 3D digital noise reduction
- True day/night with mechanical IR cut filter
- Programmable privacy zones
- De-Fog extreme weather image compensation
- Auto white balance (AWB)
- Audio input through built-in microphone
- Micro SD/SDHC/SDXC class 10 card slot (card not included)
- PoE class 3 and DC12V
- ONVIF conformant, profile S
- NDAA compliant
- IP67 dust-tight and waterproof to 3 feet
- 5 year warranty

## Dimensions

unit: Inch (mm)



## Specifications

| IMAGE                                 |                                                                                                                                       |
|---------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------|
| Image sensor                          | 5MP 1/2.7" CMOS                                                                                                                       |
| Total pixels                          | 2592 (H) x 1944 (V)                                                                                                                   |
| Minimum scene illumination            | 0.02 lux (color), 0.0 lux (B/W)                                                                                                       |
| S/N ratio                             | 50dB                                                                                                                                  |
| LENS                                  |                                                                                                                                       |
| Focal length                          | 2.8mm, F1.6                                                                                                                           |
| Lens type                             | Fixed lens                                                                                                                            |
| Field of view (FoV)                   | 98.5°                                                                                                                                 |
| IR distance                           | 100ft range                                                                                                                           |
| I/O                                   |                                                                                                                                       |
| Audio in / out                        | 1 audio input and 1 microphone built-in                                                                                               |
| Audio compression                     | G.711A / U                                                                                                                            |
| OPERATIONAL                           |                                                                                                                                       |
| Shutter mode                          | Auto, manual                                                                                                                          |
| Shutter speed                         | 1/30s - 1/100000s                                                                                                                     |
| Auto gain control                     | Auto                                                                                                                                  |
| Day / night                           | Auto, day (color), night (B/W), schedule                                                                                              |
| Smart DNR™ 3D digital noise reduction | 3D DNR                                                                                                                                |
| Wide dynamic range (WDR)              | True WDR, 120dB                                                                                                                       |
| Privacy zone                          | 4 programmable privacy masks                                                                                                          |
| Camera analytics                      | Line crossing, perimeter intrusion, video tampering detection (scene change, video blur, abnormal color), human object classification |
| Backlight compensation (BLC)          | Yes                                                                                                                                   |
| De-Fog                                | Yes                                                                                                                                   |
| Mirror and flip                       | Yes                                                                                                                                   |
| Alarm notifications                   | Notifications via email or FTP server                                                                                                 |
| Memory slot                           | Micro SD, SDHC, SDXC up to 256GB (card not included)                                                                                  |
| NETWORK                               |                                                                                                                                       |
| LAN                                   | 802.3 compliance 10/100 LAN                                                                                                           |
| Video compression type                | H.265, H.264, MJPEG                                                                                                                   |
| Resolution                            | 5MP, 4MP, 2K, 3MP, 21MP/1080P, 720P (60Hz: 1 - 30fps; 50Hz: 1-25fps )<br>HFR mode: 1080P / 720P (60Hz : 1 - 60fps; 50Hz: 1-50fps )    |
| Frame rate                            | Up to 30fps at all resolutions                                                                                                        |
| Video bitrate                         | 64 Kbps - 8 Mbps                                                                                                                      |
| Bitrate control                       | Multi-streaming CBR/VBR at H.264/ H.265 (controllable frame rate and bandwidth)                                                       |
| Streaming capability                  | Dual-stream at different rates and resolutions                                                                                        |
| IP                                    | IPv4, IPv6                                                                                                                            |
| Protocol                              | UDP, IPv4, IPv6, DHCP, NTP, RTSP, RTP, RTCP, ICMP, IGMP, PPPoE, DDNS, SMTP, FTP, SNMP,HTTP, 802.1x, UPnP, HTTPs, QoS                  |
| Security                              | IP filtering, MAC filtering, authentication (ID/PW), SSL/TSL                                                                          |
| ONVIF conformance                     | Yes                                                                                                                                   |
| Web viewer                            | OS: Windows<br>Browser: Internet Explorer                                                                                             |
| Video management software             | DW Spectrum                                                                                                                           |
| ENVIRONMENTAL                         |                                                                                                                                       |
| Operating temperature                 | -22°F - 140°F (-30°C - 60°C)                                                                                                          |
| Operating humidity                    | 95% RH (non-condensing)                                                                                                               |
| IP rating                             | IP67-rated                                                                                                                            |
| Other certifications                  | FCC, CE, ROHS, POE, ONVIF                                                                                                             |
| ELECTRICAL                            |                                                                                                                                       |
| Power requirement                     | DC 12V, PoE IEEE 802.3af Class 3. (Adapter not included)                                                                              |
| Power consumption                     | 7W                                                                                                                                    |
| MECHANICAL                            |                                                                                                                                       |
| Material                              | Metal turret housing                                                                                                                  |
| Dimensions                            | 4.66" x 3.58" (118.6 x 91 mm)                                                                                                         |
| Weight                                | 1.01 lb (0.46 kg)                                                                                                                     |
| Warranty                              | 5 year warranty                                                                                                                       |

## Mounting accessories (Optional)



DWC-MT9CMJ  
Ceiling mount  
bracket and  
junction box



DWC-MT9JUNC  
Junction box



DWC-MTTWM  
Wall mount  
bracket



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