# VMAX® ip PLUS™
### Complete IP Video Solutions

**3 Minute INSTALL**

**16 CH / 16×** — 16 Channels Total, 16 Channels PoE

**DW Witness™**  **PathFinder™**  **CCIP™ Encryption**  **30fps** Real-Time Monitoring  **Auto Device Discovery**

## Dimensions
### Unit: Inch (mm)

17.32" (440 mm)

15.66" (397.8mm)

17.32" (440 mm)

2.79" (71 mm)

## Summary

The VMAX® IP Plus™ is an easy to use to use PoE NVR that allows you to go from power up to monitoring in less than three minutes! Combine with the DW Witness™ app to turn the camera on a smartphone or tablet into a surveillance channel that can be viewed and recorded on the NVR. Available with 16 PoE ports, the NVRs can record and manage single-sensor IP cameras up to 4K, with 160Mbps maximum throughput.

## Features

- Complete installation, setup and camera configuration in under three minutes!
- CCIP™ system encryption protects your surveillance system from out of network attacks
- Record and manage single-sensor IP cameras at real-time 30fps up to 4K (3840×2160), with 160Mbps maximum throughput
- Local power for up to 16 IP cameras via resident PoE switch
- myDW® Cloud Management Services
- DW Witness™ turns a smartphone or tablet into an additional surveillance camera
- PathFinder™ Peer-to-Peer (P2P) remote connection
- HTTPS encryption supported
- Automatic device discovery
- Control any ONVIF camera's setup and features remotely
- 2TB-24TB storage options
- Snapshot Notify™: Programmable interval camera image verification sent to an email
- C3™ CMS and event server software up to 144 Channels
- Event notifications via e-mail, text and C3™ CMS and push notifications to mobile devices
- Mobile application for iPhone, iPad, iPod, Android smartphones and tablets and Apple TV
- Dual-stream recording
- Easy drag and drop camera management
- Instant backup during playback
- 4K output for local live and playback display
- Complete system analysis with real-time system, network and PoE status monitoring
- True HD and VGA simultaneous output support
- 16 sensor input, 4 alarm relay output
- Up to 4ch transaction verification via TCP and USB-serial
- Simple and free DDNS support for remote management
- Easy web-based client with multi-user access
- Advanced H.264 Linux embedded NVR
- Simultaneous live, playback, recording, back-up and network
- NVR calculation and auto-recording configuration
- Help menu on major functions
- Auto or manual firmware upgrade available
- Automatic private IP addressing
- NTP (network time protocol)
- Screen saver to protect monitor screen
- Import/export configuration between multiple NVRs
- USB mouse and GUI control
- 5 year limited warranty

**ONVIF**

## Specifications

Designed and engineered in U.S.A and Korea

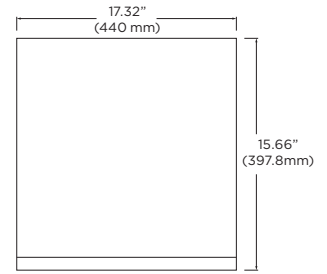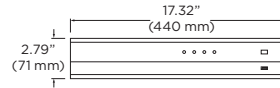| Operating system | | Embedded Linux® |
|---|---|---|
| System | Channel | 16 channel |
| | No. of PoE | 16 Ch |
| | Maximum supported resolution | IP camera maximum 4K (3840×2160) |
| | Communication protoco | ONVIF® |
| | PoE type | 1Gbps, 802.3at |
| Display | Speed | 480fps |
| | Screen mode | 1, 4, 9 and 16 |
| Video-out | Monitor | True HD and VGA |
| | Resolution | 1024x768, 1280x720, 1280x1024, 1920x1080, 2560x1600, 3840×2160 (4K) |
| Recording speed | | Up to 480fps up to 4K resolution |
| Maximum throughput | | 160 Mbps |
| Maximum HDD bay | | 4 x SATA HDD |
| Recording resolution | | Dual-stream |
| Recording modes | | Continuous, scheduled, sensor and motion detection |
| | | Pre- and post-alarm recording, emergency recording, quick backup |
| Playback and search | Speed | x1, x2, x4, x8, x16, x32, x64, x99 |
| | Function | Timeline, calendar (date and time), event search, thumbnail search, smart motion search |
| Audio input / output | | 1Ch output |
| Alarm input / relay output | | 16Ch inputs / 4Ch outputs |
| PTZ control | | RS-485, ONVIF |
| Transaction verification | | Text-in Based (USB to Serial support, TCP/IP Network) |
| LAN | | Gigabit Ethernet (RJ45) |
| Access | Web viewer | Live, playback and configuration up to 10 multiple connections |
| | Client monitoring software | Mac® (Apple® S/W), C3™ (CMS S/W), myDW® web portal and mobile app |
| Backup device | | Local backup by USB, network backup by CMS |
| System recovery after power failure | | Auto-reboot and journaling file system |
| Other functions | Firmware upgrade | FTP, USB and CMS over Network |
| | Back-up | Import and export settings, watermark and AVI file backup |
| | Special features | Local PoE switch<br>Quick Setup under 3 minutes<br>Snapshot Notify™: Programmable interval camera image verification sent to an email<br>Event notifications via e-mail, text and C3™ CMS and push notifications to mobile devices<br>Real-time temp alert<br>Digital Zoom in live and playback |
| | Mobile client | VMAX Plus app, DW Witness™ turns a smartphone or tablet into a surveillance camera viewed and recorded on your VMAX IP Plus |
| | Health check | Real-time system, network and PoE status monitoring |
| System operation | | IR remote controller (optional, sold separately), USB mouse, PTZ control by keyboard (optional) |
| Power requirements | | 110-240V A/C |
| Power consumption | | 300 W total power budget, 5.5A, 9.37W per PoE channel (simultaneous) |
| Total PoE power budget | | 150W |
| Maximum power per port | | 30W |
| Operating temperature and humidity | | 41-104 °F (5-40 °C) / 20-90% RH |
| Dimension (W x D x H) | | 17.32" x 15.66" x 2.79" (440 × 397.8 ×71 mm), 1.5U |
| Certification | | CE , FCC, KCC, WEEE, RoHS |
| Warranty | | 5 year limited |

## Available Models

- DW-VP16P – no local storage
- DW-VP163T16P – 3TB storage
- DW-VP164T16P – 4TB storage
- DW-VP166T16P – 6TB storage
- DW-VP169T16P – 9TB storage
- DW-VP1612T16P – 12TB storage
- DW-VP1618T16P – 18TB storage
- DW-VP1624T16P – 24TB storage

## Accessories (optional)

**DW-VP16RE** 19" rack mount ears

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**DW® DIGITAL WATCHDOG®**