



Universal HD over Coax<sup>®</sup>



16 Channels  
480 Total fps

**4K**

Up to 4K  
Recording



PathFinder<sup>™</sup>

**4K**

Ultra HD  
Output

**5 YEAR**

Limited Warranty

## Summary

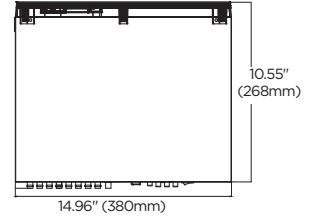
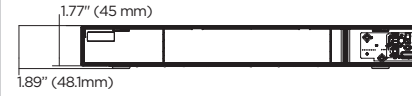
VMAX<sup>®</sup> A1 G4<sup>™</sup> is an embedded DVR that records standard analog, HD-Analog and HD-TVI formats at up to 4K resolution and 4K local video output. The DVR is a seamless upgrade to HD resolution for new ROI from existing coaxial infrastructure. Up the Coax (UTC) remote configuration is available with all compatible cameras. The 16-channel VMAX A1 G4 model is NDAA and TAA compliant, and is available with up to 32TB of storage.

## Features

- Universal HD over Coax<sup>®</sup> DVR records HD-Analog, HD-TVI and standard coax up to 4K resolution
- Advanced H.265, H.264 Linux<sup>®</sup> embedded DVR
- 16-channels, 480fps real-time 30fps recording
- Up to 4K recording resolution at 112fps (7fps per channel)
- PathFinder<sup>™</sup> easy end-to-end remote connection with NAT Traversal (STUN/TUN) support
- Remote management with C3<sup>™</sup> CMS
- Event camera group recording
- Complete system analysis with real-time system and network status monitoring
- Mobile Application for iOS<sup>®</sup> and Android<sup>®</sup> devices
- OSD and PTZ control via coax (UTC)
- Signal hybrid detects the camera signal automatically
- Instant channel swap, no need to disconnect or reboot the DVR
- Snapshot Notify<sup>™</sup>: programmable interval snapshot email notifications
- 4K (3840 x 2160) True HD, VGA and CVBS video outputs
- Up to 32TB internal storage
- HDD calculation and auto-recording configuration
- Thumbnail search with hour and 5-minute previews
- 10-second jump buttons for playback and fast forward
- Event notifications via email, C3 CMS and push notifications
- Compatible with DW<sup>®</sup> Spot<sup>™</sup> Monitoring module for Public View Monitors
- 8 audio inputs, 1 audio output
- 16 sensor inputs, 4 relay outputs
- Simple and free DDNS service
- Easy web-based client with multi-user access
- Help menu on major functions
- Auto and manual firmware upgrades
- NDAA/TAA compliant
- 5 year limited warranty

## Dimensions

Unit: Inch (mm)



## Specifications

VIDEO		
Operating system	Embedded Linux <sup>®</sup>	
System	Channel	16 channels
	Signals Supported	Standard analog signal up to 960H, HD-Analog and HD-TVI up to 4K
Video out	Monitor	True HD, VGA and CVBS
	Frame rate	480fps
	Resolution	True HD: 3840x2160 (4K), 2560x1440, 1920x1080, 1280x1024, 1024x768, 800x600 VGA: 1920x1080, 1280x1024, 1024x768, 800x600 CVBS: D1 (720x480)
	Screen mode	1, 4, 6, 9, 10 and 16
Audio	Input/output	8 inputs/1 output
	Codec	ADPCM
Alarm input/output	16 inputs/4 outputs	
Serial	1x RS485	
User interface	Graphical user interface (GUI), USB mouse	
PERFORMANCE		
Recording	Compression	H.265, H.264
	Recording mode	Continuous, schedules, sensor-activated, motion detection, pre and post alarm, emergency, quick backup Dual recording for live and playback
	Recording resolutions	3840x2160, 2560x1440, 2560x1440, 1920x1536, 1920x1080, 1280x720, 720x480, 960x480
	Recording and playback rate	D1-Full HD (1920x1080, 1280x720, 720x480, 960x480): 480fps (30fps per channel) 3MP (1920x1536): 288fps (18fps per channel) 4MP/2K (2560x1440): 240fps (15fps per channel) 5MP (2560x1944): 192fps (12fps per channel) 4K (3840x2160): 112fps (7fps per channel)
Playback	Playback speed	x1, x2, x4, x8, x16, x32
	Playback functions	Intelli-search by time bar, calendar (date and time), event search and thumbnail search
Storage	HDD interface	2x SATA HDD, 1x e-SATA
	Maximum internal storage	Up to 32TB internal storage
Features	HDD health check	Real-time temp alert, S.M.A.R.T. with email notifications
	Camera OSD control	Via UTC
	Digital zoom	Live and playback
	Software upgrade	USB flash drive, network upgrade, FTP remote upgrade
	Mobile client	Mobile app for Apple and Android devices
	Covert channel	Yes
Transaction verification	Text-in based (USB to serial support, TCP/IP network), display POS data on live and playback	
NETWORK		
LAN	1,000Mbps (RJ45)	
Protocol	Fixed IP, DHCP, UPnP, DDNS	
Access	Web viewer	Live, playback and configuration up to 10 multiple connections
	Video streaming functions	Dual stream for local recording and network transmission PathFinder <sup>™</sup> easy end-to-end remote connection
	Client monitoring software	C3 CMS, DW Mobile Plus mobile app
Network functions	Live monitoring, remote playback and file backup	
Remote system control	Remote system reboot, system management and PTZ control	
NETWORK		
Other function	Firmware upgrade	FTP, USB and CMS over network
	Special features	Snapshot Notify: Programmable interval camera image verification Event notifications via email, text and C3 CMS Push notifications to mobile devices via DW Mobile Plus Time synchronization to an NTP server (pool.ntp.org)
	Health check	Real-time system and network status monitoring
Backup device	Local backup by USB, network backup by CMS, watermark, AVI file	
System recovery after power failure	Auto-Reboot and journaling file system	
GENERAL		
Operating temperature/humidity	32-113 °F (0-45 °C) / 10-90% RH	
Certification	CE, FCC, KC, NDAA, TAA	
Power requirements	DC12V	
Power consumption	48W, 4A	
Dimension (W x D x H)	14.96" x 10.58" x 1.77" (380 x 268.8 x 45 mm)	
Warranty	5 year limited	



## Available Models

DW-VA1G416 - 16CH, no HDD.

DW-VA1G4162T - 16CH, 2TB internal storage.

DW-VA1G4164T - 16CH, 4TB internal storage.

DW-VA1G4166T - 16CH, 6TB internal storage.

DW-VA1G4168T - 16CH, 8TB internal storage.

DW-VA1G41610T - 16CH, 10TB internal storage.

DW-VA1G41612T - 16CH, 12TB internal storage.

DW-VA1G41616T - 16CH, 16TB internal storage.

DW-VA1G41620T - 16CH, 20TB internal storage.

DW-VA1G41632T - 16CH, 32TB internal storage.

## Accessories (Optional. Sold separately)



DW-G419RE  
19" rack mount ears



Built for Users.™

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