



HD over Coax<sup>™</sup>



16CH  
480 Total fps



PathFinder<sup>™</sup>



5MP  
Up to 5MP  
Recording



4K  
Ultra HD  
Output



5 YEAR  
Limited Warranty

## Summary

VMAX<sup>®</sup> A1 Plus<sup>™</sup> DVRs support HD-Analog and HD-TVI signals up to 5MP and CVBS up to 960H. The DVRs offer a seamless upgrade to HD resolution for new ROI from existing coaxial infrastructure. The VMAX<sup>®</sup> A1 Plus<sup>™</sup> can record 1080p video at real-time 30fps. Up the Coax (UTC) remote configuration is available with all compatible cameras. The 16-channel DVR is available with up to 20TB of storage.

## Features

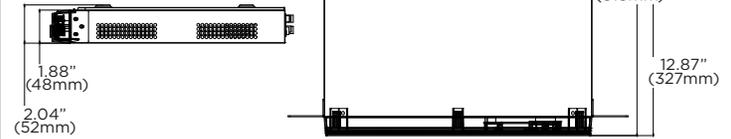
- Universal HD over Coax<sup>®</sup> DVR records HD-Analog and HD-TVI and all analog up to 960H signals
- Advanced H.264 Linux<sup>®</sup> embedded DVR
- 16-channels, real-time 30fps recording up to 5MP
- Up to 5MP recording resolution at 160fps
- myDW<sup>®</sup> Cloud Management Services
- PathFinder<sup>™</sup> Peer-to-Peer (P2P) remote connection
- C3<sup>™</sup> CMS and event server software up to 288Channels
- Event camera group recording
- Complete system analysis with real-time system and network status monitoring
- Mobile Application for iPhone<sup>®</sup>, iPad<sup>®</sup>, iPod<sup>®</sup>, Android<sup>®</sup> Smart Phones and Tablets and Apple TV<sup>®</sup>
- Mac<sup>®</sup> compatible remote ACS software
- OSD and PTZ control via coax (UTC)
- Signal hybrid detects any camera at HD-Analog, HD-TVI and 960H automatically.
- Instant channel swap, no need to disconnect or reboot the DVR.
- Snapshot Notify<sup>™</sup>: programmable interval snapshot notifications
- 4K (3840 x 2160) True HD, VGA and Spot video outputs
- 2TB - 10TB storage options
- 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 e-mail and C3<sup>™</sup> CMS and push notifications to mobile devices
- Multiplex - live, playback, recording, backup, network, configuration
- 4 audio input, 1 audio output
- 4 sensor input, 1 relay output
- Digital spot monitoring output at D1 resolution
- Simple and free DDNS service
- Push notifications via DW<sup>®</sup> VMAX<sup>®</sup> Plus<sup>™</sup> app
- Easy web-based client with multi-user access
- Help menu on major functions
- Auto and manual firmware upgrades

## Available Models

- DW-VA1P162T - 2TB, 16CH
- DW-VA1P163T - 3TB, 16CH
- DW-VA1P164T - 4TB, 16CH
- DW-VA1P166T - 6TB, 16CH
- DW-VA1P168T - 8TB, 16CH
- DW-VA1P1610T - 10TB, 16CH
- DW-VA1P1612T - 12TB, 16CH
- DW-VA1P1616T - 16TB, 16CH
- DW-VA1P1620T - 20TB, 16CH
- DW-VA1P16 - no local storage

## Dimensions

Unit: Inch (mm)



## Specifications

<b>VIDEO</b>			
Operating system	Embedded Linux <sup>®</sup>		
System	channel	16CH	
	Signals supported	Analog signal up to 960H, HD-Analog and HD-TVI up to 5MP	
Video-out	Monitor	True HD, VGA and Spot outputs	
	Framerate	480fps	
	Resolution	HDMI: 2560x1440, 3840x2160 (4K), 800x600, 1024x768, 1280x1024, 1920x1080 VGA: 800x600, 1024x768, 1280x1024, 1920x1080 Spot: D1	
Audio	Screen mode	1, 4, 6, 9, 10, 13 & 16	
	Input	4 Inputs	
Alarm	Output	1 output	
	Codec	ADPCM	
Serial	Alarm input	4 inputs	
	Alarm output	1 output	
User interface	1x RS485 for keyboard and PTZ control		
User interface	Graphical user interface (GUI), IR remote control, USB mouse		
<b>PERFORMANCE</b>			
Recording	Compression	H.264	
	Recording mode	Continuous, schedules, sensor-activated, motion detection, pre and post alarm, emergency, quick backup	
	Pre recording	0- 5sec	
	Post recording	0-5min	
	Recording rate	960x480/576 (960H): 480fps	
		1280x720 (HD): 480fps	
		1920x1080 (HD): 480fps	
2560x1600 (4MP): 240fps			
Recording resolutions	2560x1944 (5MP): 160fps		
	354 x 240, 720 x 480, 960 x 480, 1280x720, 1920x1080, 2560x1600, 2560x1440, 2560x 1944		
Playback	Playback rate	960x480/576 (960H): 480fps 1280x720 (HD): 480fps 1920x1080 (HD): 480fps 2560x1600 (4MP): 240fps 2560x1944 (5MP): 160fps	
	Playback resolution	1, 4, 9 & 16 Ch at 1080P (up to 4K 3840x2160)	
	Fast forward functions	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	1x SATA HDD
Max. internal storage		20TB	
HDD interface type		SATA	
Features	HDD health check	Temperature, S.M.A.R.T. with e-mail notifications	
	Camera color control	Via UTC	
	Digital zoom	Live and playback	
	Software upgrade	USB flash drive, network upgrade, FTP remote upgrade	
	Mobile client	Mobile app for Apple <sup>®</sup> & Android <sup>®</sup> smart phones & tablets	
<b>NETWORK</b>	LAN	Ethernet (1 x gigabit)	
		960x480/576 (960H): 480fps 1280x720 (HD): 480fps 1920x1080 (HD): 480fps 2560x1600 (4MP): 240fps 2560x1944 (5MP): 160fps	
	Streaming	Transmission speed	live
		Protocol	Fixed IP, DHCP, UPnP, DDNS
	Access	Web viewer	Live, playback and configuration up to 10 multiple connections
		Client monitoring software	Mac <sup>®</sup> (Apple <sup>®</sup> S/W), C3 <sup>™</sup> (CMS S/W), myDW <sup>™</sup> web portal and mobile app
	Network features	Dual stream, separate local recording and network transmission	
		Network bandwidth control (25 Kbps - 1000 Mbps)	
		Time synchronization by NTP server ("pool.ntp.org")	
	Backup device	Local backup by USB and CMS over the network and FTP	
System recovery after power failure	Auto-reboot and journaling file system		
<b>GENERAL</b>			
Operating temperature and humidity	41°F - 104°F (5°C - 40°C), less than 80% (non-condensing)		
Certification	CE & FCC & KCC & WEEE, RoHS		
Power requirements	DC12V		
Power consumption	60W, 5A		
Dimension (W x D x H)	15.15" x 12.4" x 1.88" (385 x 315 x 48 mm) (1U)		
Weight	4.4 lbs (2kg)		
Warranty	5 year limited		