V MAX 960 H

MAXIMUM VALUE — MAXIMUM PERFORMANCE

34% HIGHER RESOLUTION THAN D1

960H
HORIZONTAL
PIXELS *SEEING IS BELIEVING*

- 480fps @ 960H Resolution
- True HD 1080p Output
- Free & Simple DDNS
- Face Stamp Employee Management

- E-mail & Text JPEG Notification
- RAID 0, 1, 10
- Built-in DVD-RW
- 5x Signal Extender

H.264   8/16 CH   RAID   30 FPS   CMS   HDD CALCULATOR

COMPATIBLE WITH

iPhone   Android   Mac

More of what you have come to expect from the VMAX family of products

5x SIGNAL EXTENDER

Reduces digital noise and amplifies image quality over UTP (i.e. Cat 5, 6, etc.) or Coax (RG-59) cables with no repeaters or special installation. This technology was designed to optimize operation and eliminate the loss of high frequency detail/blurring.

Cat 2/3 Cables

MAX 3,000ft

Cat 5/6 Cables

MAX 4,000ft

RG-59 Coaxial

MAX 5,000ft

VS

	Distance using Copper-Core Cable	Distance Using Non-Copper-Core Cable
Cat-5/ Cat-5e (RG-45 Cable)	4,000ft	2,000ft
Cat 6 (RG-45 Cable)	4,000ft	N/A
Coaxial RG-59 (BNC Cable)	5,000ft	1,500ft

※ Maximum Extension Length May Fluctuate Depending on the Quality of the Cable.

FaceStamp

Complete control and visibility over employee management and fraud prevention.

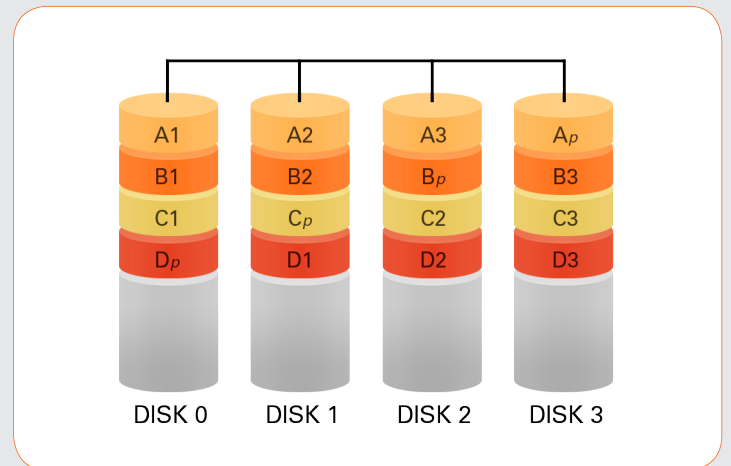|	
NAME:	John Doe
EMPLOYEE NUMBER:	0042765
DEPARTMENT:	Sales
DATE:	Feb. 15, 2012
TIME IN:	07:54:06 AM
TIME OUT:	11:58:27 AM
TIME IN:	12:48:22 AM
TIME OUT:	05:37:49 AM
SERVICED HOURS:	08:44:13 --

FaceStamp

Single Channel Search

Allows for a single channel to perform search functions without interrupting live playback for other channels.

SEARCH   LIVE VIDEO

LIVE VIDEO   LIVE VIDEO

E-mail & Text JPEG Notification

A convenient tool that keeps track of the HDD's vital stats and notifies you of any abnormalities.

@

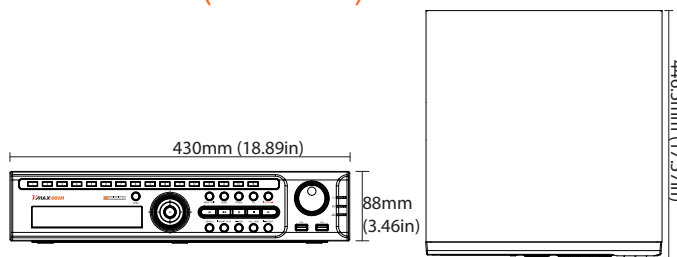## RAID [REDUNDANT ARRAY OF INDEPENDENT DISKS]

Creates an added layer of security through automated data backup. RAID 0, 1, 10 available.

A1	A2	A3	Ap
B1	B2	Bp	B3
C1	Cp	C2	C3
Dp	D1	D2	D3

DISK 0   DISK 1   DISK 2   DISK 3

VMAX960H 480@ 960H Real Time Recording

5 YEAR LIMITED WARRANTY

Dimensions (unit : mm)

430mm (18.89in)

88mm (3.46in)

446.5mm (17.57in)

Summary

The VMAX960H is an advanced H.264 Stand Alone digital video recorder that records 480fps, Real-Time at 960H, D1, 2CIF, and CIF. All the great features, such as Panoramic Search, Single Channel Search in Playback, Single Touch Backup and Event management, can be controlled with the front panel, included USB mouse, or IR remote control. And with our special Image Enhancer, you can add the convenience of controlling cameras installed up to 6,000ft from the DVR, without losing clarity or quality. The DVR is available with basic storage from 1 to 16 terabytes.
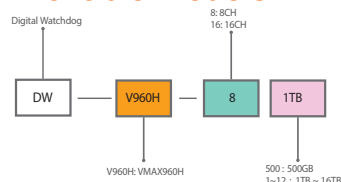
Features

- Advanced H.264 Stand Alone DVR
- Multiplex - Live, Playback, Recording, Backup, Network, Configuration
- Record 30 Frames per Second on Every Channel
- One Touch Video Backup, Reverse Playback, & Emergency Recording
- Simple & Free DDNS Support
- Mirroring (RAID 0,1,10)
- Web-Based Client with Multi-User Access
- Scheduled Network Backup
- 8/16 Channels Looping Output
- S.M.A.R.T HDD Health Check with Email Notifications
- HDD Calculation and Auto Recording Configuration
- 16 Audio Input, 2 Audio Output
- 16 Sensor Input, 4 Relay Output
- Email & Text Event Notifications
- Watermark Verification (Digital Signature Verification)
- Help Menu on Major Functions
- Auto & Manual Firmware Upgrade Available
- USB Mouse, IR Remote Control, GUI
- Central Management Software, Up to 128CH
- Mobile Application for iPhone, iPad, iPod, Android Smart Phones and Tablets, and Kindle Fire
- MAC Compatible Remote Software

Available Models
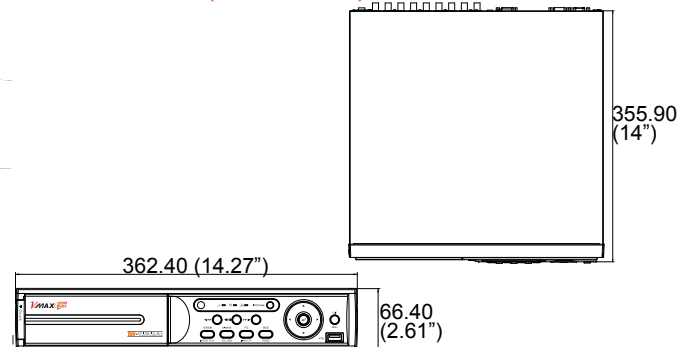
Digital Watchdog

8: 8CH
16: 16CH

| DW | V960H | 8 | 1TB |

V960H: VMAX960H

500 : 500GB
1~12 : 1TB ~ 16TB

Specifications

VIDEO		
Video Input		8/16 Channels
Video Live	Framerate	1~30fps
	Resolution	960H, D1, 2CIF, CIF
Video Output		HD Output, Composite, VGA, SPOT
Loop Output		8/16 Channels Looping Output
Audio	Input	8/16 Input
	Output	2 Output
	Audio Codec	ADPCM
Alarm	Sensor Input	8/16 Input
	Alarm Out	4 Ouput
Operating System		Embedded Linux
Serial		1xRS232, 2xRS485 for PTZ Camera & Contrller, 2xUSB 2.0
User Interface	Menu Display	Graphical Uuser Interface (GUI)
	Control Methods	IR Remote Control, USB Mouse, Front Panel Buttons
Screen Display Mode		16CH: 1,4,9,16, Single Channel Playback, Sequence
Screen Resolution		1080p, 720p, 1280X1024, 1024X768,
		720X480 (NTSC), 720X576 (PAL)

Performance		
Recording	Compression	H.264
	Recording Mode	Schedule, Event, Time-Lapse, Panic, Continuous, Pre & Post Event, Motion, Recording Configuration per Channel
	Pre Recording	0~15 Seconds
	Post Recording	10~10 Seconds
	Recording Rate	16CH: 480/ 400 fps (NTSC/ PAL) @ All Resolutions
		8CH: 240/ 200 fps (NTSC/PAL) @ All Resolutions
	Recording Resolutions	Full 960H Real-Time Recording, 30fps @ All Resolutions
Playback	Playback Rate	16CH: 480/ 400 fps (NTSC/ PAL) @ All Resolutions
		8CH: 240/ 200 fps (NTSC/PAL) @ All Resolutions
	Playback Resolution	Full 960H Real-Time Playback, 30fps @ All Resolutions
	Fast Forward Functions	x1/16, x1/8, x1/4, x1/2, x1, x2, x4, x8, x16, x32,
	Rewind Functions	First Data, Last Data, Frame-by-Frmae
	Search Modes	Date & Time, Record Table, Calendar, Event Preview, Bookmark, Play from Search, System & Event Logs
Storage	HDD Interface	Up to 4 HDD
	Program Memory	Built-in Flash (512Mb)
	Max. Internal HDDs	Up to 16TB (4HDD x 4TB)
	External Storage	USB Flash Drive, USB HDD, DVD
	CD/ DVD RW	Yes
	HDD Interface Type	SATA-II, SATA-III
	HDD Health Check	Temperature, S.M.A.R.T. with E-mail Notifications
Features	FaceStamp	Employee Management and Fraud Prevention
	Image Enhancer	Amplify signal up to 3,000ft (Cat5), 6,000ft (RG-59)
	Camera Color Control	Brightness, Contrast, Saturation, Hue
	Digital Zoom	Yes (Live & Playback)
	Software Upgrade	USB Flash Drive, Network Upgrade, FTP Remote Upgrade
	3G Mobile	Mobile App for Apple & Android Smart Phones & Tablets
	Covert Channel	Yes (Live & Playback)

Network		
Network Connection		Ethernet (1 x Gigabyte 10/100/1000 Mbps)
Streaming	Transmission Speed Live	480/400 fps @ D1 (NTSC/ PAL)
	Protocols	Static, DDNS, DHCP
Access	Web Viewer	Live, Playback, & Config. up to 10 multiple connections
	Client Monitoring Software	ACS (Client S/W), MAC (Apple S/W), Pivot (CMS S/W)

General		
Operating Temperature/ Humidity		5 ~ 40°C (41 ~ 104°F)
Operating Humidity		Less than 80% (Non-Condensing)
Electrical	Power Requirement	12V 9A D/C
	Power Consumption	108W
Dimensions		18.89 X 3.46 X 17.57 in (430 X 88 X 446.5mm)
Weight		13.84lb (6.28kg)

*Specification is subject to change without prior notice.

DIGITAL WATCHDOG
Complete Surveillance Solutions

VMAX 960H Flex
960H Real Time Recording

5 YEAR LIMITED WARRANTY

Dimensions (unit : mm)

355.90 (14")

362.40 (14.27")

66.40 (2.61")

Summary

The VMAX960HFlex model is an advanced H.264 Stand Alone digital video recorder that records real-time at 960H, D1, 2CIF, and CIF Resolutions. This DVR offers the unparalleled image quality of the VMAX960H, at an affordable cost for low and mid-size applications. In addition, the DVR offers great features such as Free DDNS, One Touch Backup and Playback, Single Channel Playback in Live, and is supported by our popular mobile application. The DVR is available with basic storage from 1 to 6 Terabytes.

Features

- Advanced H.264 Stand Alone DVR
- Multiplex - Live, Playback, Recording, Backup, Network, Configuration
- Record 30 Frames per Second on Every Channel
- One Touch Video Backup, Reverse Playback, & Emergency Recording
- Simple & Free DDNS Support
- Web-Based Client with Multi-User Access
- Scheduled Network Backup
- S.M.A.R.T Health Check with Email Notification
- HDD Calculation and Auto Recording Configuration
- Email & Text Event Notifications
- Watermark Verification (Digital Signature Verification)
- Help Menu on Major Functions
- Auto & Manual Firmware Upgrade Available
- Import/Export Configuration Between Multiple DVRs
- USB Mouse, IR Remote Control, GUI
- Central Management Software, Up to 128CH
- Mobile Application for iPhone, iPad, iPod, Android Smart Phones and Tablets, and Kindle Fire
- MAC Compatible Remote Software

Available Models

Digital Watchdog

8: 8CH
16: 16CH

| DW | VF960H | 8 | 1TB |

V960H: VMAX960H

500 : 500GB
1~6 : 1TB ~ 6TB

Specifications

VIDEO

Video Input		8/16 Channels
Video Live	Framerate	1~30fps
	Resolution	960H, D1, 2CIF, CIF
Video Output		HD Output, Composite, VGA, SPOT
Loop Output		2CH Looping Output
Audio	Input	8 Input (Via Terminal Blocks)
	Output	2 Output (Via Phone Jack)
	Audio Codec	ADPCM
Alarm	Sensor Input	8/16 Input
	Alarm Out	2 Ouput
Operating System		Embedded Linux
Serial		1xRS232, 2xRS485 for PTZ Camera & Contrller, 2xUSB 2.0
User Interface	Menu Display	Graphical Uuser Interface (GUI)
	Control Methods	IR Remote Control, USB Mouse, Front Panel Buttons
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Screen Resolution		1080p, 720p, 1280X1024, 1024X768, 720X480 (NTSC), 720X576 (PAL)

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Recording	Compression	H.264
	Recording Mode	Schedule, Event, Time-Lapse, Panic, Continuous, Pre & Post Event, Motion, Recording Configuration per Channel
	Pre Recording	0~15 Seconds
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	Recording Resolutions	Full 960H Real-Time Recording, 30fps @ All Resolutions
Playback	Playback Rate	16CH: 480/ 400 fps (NTSC/ PAL) @ All Resolutions 8CH: 240/ 200 fps (NTSC/PAL) @ All Resolutions
	Playback Resolution	Full 960H Real-Time Playback, 30fps @ All Resolutions
	Fast Forward Functions	x1/16, x1/8, x1/4, x1/2, x1, x2, x4, x8, x16, x32,
	Rewind Functions	First Data, Last Data, Frame-by-Frmae (Panoramic)
	Search Modes	Date & Time, Record Table, Calendar, Event Preview, Bookmark, Play from Search, System & Event Logs, Panoramic Search, 1Channel Playback
Storage	HDD Interface	Up to 2 HDD
	Program Memory	Built-in Flash (512Mb)
	Max. Internal HDDs	Up to 6TB (2HDD x 3TB)
	External Storage	USB Flash Drive, USB HDD, DVD
	HDD Interface Type	SATA-II, SATA-III
	HDD Health Check	Temperature, S.M.A.R.T. with E-mail Notifications
Features	FaceStamp	Employee Management and Fraud Prevention
	Image Enhancer	Amplify signal up to 3,000ft (Cat5), 6,000ft (RG-59)
	Camera Color Control	Brightness, Contrast, Saturation, Hue
	Digital Zoom	Yes (Live & Playback)
	Software Upgrade	USB Flash Drive, Network Upgrade, FTP Remote Upgrade
	3G Mobile	Mobile App for Apple & Android Smart Phones & Tablets
	Covert Channel	Yes (Live & Playback)

Network

Network Connection		Ethernet (1 x Gigabit 10/100/1000 Mbps)
Streaming	Transmission Speed Live	480/400 fps @ D1 (NTSC/ PAL)
	Protocols	Static, DDNS, DHCP
Access	Web Viewer	Live, Playback, & Config. up to 10 multiple connections
	Client Monitoring Software	ACS (Client S/W), MAC (Apple S/W), Pivot (CMS S/W)

General

Operating Temperature/ Humidity		5 ~ 40°C (41 ~ 104°F)
Operating Humidity		Less than 80% (Non-Condensing)
Electrical	Power Requirement	12V 6.67A D/C
	Power Consumption	80.04W
Dimensions		14.27 X 2.61 X 14 in (362.40 X 66.40 X 355.90 mm)
Weight		8.4lb (3.8kg)

*Specification is subject to change without prior notice.