



## AVerDiGi IWH3216 Touch H.264 Embedded Hybrid DVR

Support 16CH IP/Analog Camera Inputs  
Fingertip Operation of Dual Touch-Monitor



Full range of support for many of the IP camera manufactures in the market. Based on client's request, AVerMedia will be able to add new models into our support list.

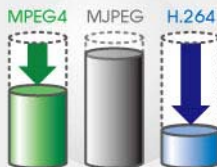
ACTI, AirLink, ALPHA, ALinking, AMTK, APPRO, Arecont, Asoni, AVerDiGi, AVICO, AVTECH, AVS, AXIS, BASLER, Beward, BOSCH, CANON, CAMTRON, CNB, CYNIX, Dentec, D-Link, Dynacolor, EtoVision, Eyeview, FLIR, FUHO, HIKVISION, Hifron, Hunt, iLink, iCantek, Ikegami, Iomage, IPD, IQInvision, JVC, Level-one, Lillin, Linksys, LG, Lumenera, Messoa, Mobotix, NipponSeiki, Pixord, Panasonic, Pelco, Samsung, Sanyo, SPEC0, Sony, TOSHIBA, TRUEN, Veo, Vivotek, VITOR, YOKO, Y-CAM, ZAVIO

## Key Points



### Dual Core Processor

Incorporate Intel dual-core processor which delivers significant CPU performance on multiple concurrent tasks



### H.264 H/W Compression

Support recording rate up to H.264 240/200 fps @ D1 resolution and provides independent dual stream for better network efficiency



### Hybrid DVR

16CH hybrid capability and compatibility with all major brands of IP/analog cameras (available for adding new IP camera without extra charging)



### User Friendly Design

Fingertip operation of touchpad front panel, dual touch monitor, and self-explanatory intelligent GUI for either software or hardware design



### System Integration

Wide-range security deployment and intelligent video integration, such as POS machine, ATM, FaceFinder, Visual Search and PTZ Tracking



### Remote Access

Remote Software Integration: CM3000/CM3000 Gold, Remote Console, WebViewer, PDAViewer, iPhoneViewer, 3GViewer, JavaViewer, HandyViewer, and SmartViewer

## Application Diagram





## Key Features

AVerDiGi IWH3216 Touch incorporated the latest dual core processor specification that delivers significant CPU performance on multiple concurrent tasks and outstanding video quality. The shining ocean-blue light, sensitive touch front panel and slick-look exterior as well as dual touch monitor support, have made AVerDiGi IWH3216 Touch the most efficient and user-friendly DVR in the market.

### VIDEO FEATURE

- A DVR embedded with Windows operating system
- Featured hybrid DVR to support 16 channels IP and/or analog cameras
- IP/Analog PTZ camera supported and available for adding new protocols
- Video format: NTSC/ PAL
- Support 352x240/352x288, 720x240/720x288 or 720x480/720x576 resolutions (NTSC/PAL)
- Support static as well as dynamic de-interlacing for smoother graphics
- Built-in noise reduction algorithm

### RECORDING

- H.264 hardware compression
- Recording rate: 480/400(CIF), 240/200 fps (D1)
- Two types of de-interlace method: optimized for static scene or dynamic scene
- Alarm trigger/ Motion Detection/ Smart/ Audio Detection/ Continuous/ Schedule recording
- Video mask – prevent high activity regions from triggering motion based recording
- Auto recycling when storage disk is nearing full
- Live HDD size estimation tool
- Supports network storage devices

### FORENSICS

#### Search

- Defined parameter search by date, time, camera, area, event, vision, and log file
- Easy retrieval and playback of footage by "Bookmarking" significant segments
- Visual search breaks down video by date, hour, minute, and second

#### Playback

- Real-time playback without having to disable recording/network functions
- Complete playback control: playback, backward playback, fast forward/ backward playback, forward/ backward frame-by-frame playback

#### Backup

- Easily export/backup to flash memory, RAID, NAS, External HDD and internal SATA HDD by channels and hours
- iBackup software ensures easy backup and playback
- iEnhance provides highest-level video quality

### USER ACCESS

- Setup as many users as you like with their own individual passwords (maximum:256 accounts)
- Each user can be pre-configured to perform only certain actions (e.g. access specific cameras remotely)

### REMOTE MONITORING

- Simultaneous multiple remote live/record video
- 16 sensors in/4 relays out and up to 128 more with additional E-I/O box
- Totally command of up to 1000 remote systems with CM3000 Gold Central management System
- Dispatch server allows you to broadcast video stream to the public

### E-map

- E-map showcasing camera, sensor, and relay positions
- Enabling to extend up to 8 maps

### Alarm/Notifications

- Starting video recording on multiple cameras
- Sending footage to spot monitor
- Enlarging triggered video
- Turn relay on (light switch, alarm, etc.)
- Launching the triggered channel's corresponding E-map
- Playing warning sounds
- Sending emails, snapshots, and files to FTP, SMS/MMS and video to Central Management System
- Alert messages help security guard follow standard operational procedures

### DISPLAY

- Display rate: 480/400 fps (NTSC/PAL)
- 16 channel video and audio inputs
- Dual touch-monitor output
- Auto scan with full screen display under 1, 4, 8, 9, 13, 16-camera display modes
- Night view ability

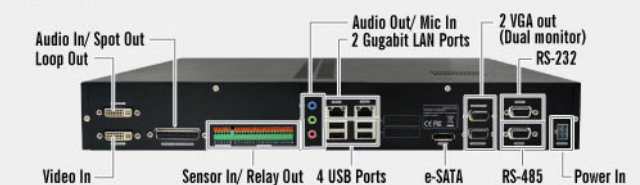
## Product Illustration

### IWH3216 Touch

#### Front



#### Rear



## Detailed Specifications

<b>Model</b>	IWH3216 Touch
<b>Operating system</b>	Windows embedded
<b>Compression</b>	H/W H.264
<b>Video input</b>	16
<b>Audio input/Audio output/Mic.input</b>	16/1/1
<b>IP Cam Support</b>	16
<b>Video loop output</b>	16
<b>Spot Output</b>	2
<b>Dual-monitor output</b>	Yes
<b>Display rate(NTSC/PAL)</b>	480/400 fps
<b>Recording frame rate(CIF)</b>	480/400 fps
<b>Recording frame rate(D1)</b>	240/200 fps
<b>Accessory</b>	
<b>H/W accessory</b>	Video cable, Audio cable, USB mouse
<b>Optional accessory</b>	Loop through cable, RS-485 cable, RACK ears, Data Box, System Controller Pro, RAID, 17"/19" Touch Monitor, USB2RS232/485-4 ports, E-IO Box
<b>Connectors</b>	
<b>Ethernet</b>	2 ports,RJ-45, 10/100/1000 Mbps
<b>RS485</b>	1
<b>RS232</b>	1
<b>e-SATA port</b>	1
<b>USB 2.0</b>	Front 2 ports, Rear 4 ports
<b>Sensor/Relay</b>	16/4
<b>Front Panel</b>	
<b>Touch pad</b>	Yes
<b>Operation via front panel</b>	Yes
<b>Remote Management</b>	
<b>Central Moangement</b>	CM3000/ CM3000 Gold (up to 1000 DVRs), Remote iMatrix, Remote Console
<b>Remote DVR Connectivity</b>	WebViewer, JavaViewer, iPhoneViewer, PDAViewer, SmartViewer
<b>Unit Standards</b>	
<b>DVD-RW</b>	Yes
<b>Removable HDD tray</b>	Yes
<b>DOM</b>	2GB
<b>HDD</b>	Support up to 3 internal SATA HDD and 1 e-SATA connector for external SATA HDD
<b>Dimensions (W x H x D)</b>	430 x 60 x 370 mm
<b>Power</b>	120W Power adaptor, 19V DC
<b>Software</b>	
<b>Dispatch Server</b>	Balance DVR communication for added client access and greater data transfer speeds
<b>iPOS Function</b>	Advanced tool for POS management that allows transaction data searches right from live monitoring screen
<b>IP PTZ control/tracking</b>	Zoom-in/out, Focus in/out, Direction, Speed, Preset point, Autopan, Moving object tracking
<b>iEnhance</b>	Enhance video quality such as brightness/Contrast/Hue/Saturation/Noise reduction/De-interlace/ Gray scale of recorded video
<b>iStable</b>	One-click fix for shaky video caused by camera movement and jolts
<b>Remote Setup/backup</b>	Make system changes and backup remotely
<b>Image Verification</b>	A watermark-checking program to identify the authenticity of a saved image (e.g. by snapshot)

Specifications are subject to change without prior notice

## Ordering Information

Product Name	Model Name	DVD RW	HDD Tray	SATA HDD
IWH3216 Touch	XA-31A01	Yes	N/A	N/A
	XA-31A02	N/A	Yes	N/A