HDVR
Hybrid Digital Video Recorder

Features That Make a Difference:

- Manage analogue and IP cameras from an intuitive interface
- Two flexible configurations available: 16 analogue/8 IP cameras; 32 analogue/8 IP cameras
- Each server is expandable to 64 IP cameras
- Supports H.264 and MJPEG on analogue cameras; H.264, MPEG4, MJPEG on IP cameras
- Unique removable BNC panel improves serviceability
- 2U and 4U rack-mountable servers
- Supports a wide variety of IP cameras including multi-megapixel
- Easily and cost-effectively add IP camera licenses
- Common client allows you to connect to an unlimited number of HDVR servers
- Use multi-monitor and wide-screen client display for easy viewing
- Easy-to-use, powerful video and audio export features
- Easy-to-use multi-camera view playback and export
- User –definable permissions and privileges
- Access video with most web browsers and mobile devices
- Easily analyse search results with configurable colour-coding
- RAID 5 storage option
- Compatible with iPhone, iPod Touch, iPad, BlackBerry and devices using Windows Mobile OS

HDVR (Hybrid Digital Video Recorder) from American Dynamics protects your analogue camera investment while you consider either transitioning to IP cameras, or enjoy the benefits of a mixed environment. HDVR provides seamless integration and recording of both analogue and IP video surveillance cameras on an enterprise class chassis.

The powerful, yet easy to operate client user interface installs on any standard computer running Microsoft Windows XP or Vista and can connect to multiple servers. Video from all HDVR systems can also be accessed with web browsers and mobile devices with access to the Internet.

Each HDVR server supports 16 or 32 analogue inputs and 8 IP inputs, which can be easily expanded to 64 IP cameras per server. The unique hardware platform supports H.264 and MJPEG compression technology on all analogue channels; H.264, MJPEG, MPEG-4 on IP channels. RAID 5 models provides redundant storage capabilities.

HDVR features a removable BNC panel, making it extremely easy to perform maintenance on the server without disrupting service; you simply replace the front of the unit while keeping all the BNCs intact.

General

Video Standard . . . . .PAL (25 ips) / NTSC (30 ips)
Recording Resolution . . . . . .352 x 288 – CIF@25 ips PAL
(per analogue camera)   704 x 288 – 2CIF@25 ips PAL
                      704 x 576 – 4CIF@25 ips PAL
                      352 x 240 – CIF@30 ips NTSC
                      704 x 240 – 2CIF@30 ips NTSC
                      704 x 480 – 4CIF@30 ips NTSC
Compression
  Analogue Cameras . . . . . . .H.264 / MJPEG
  IP Cameras. H.264/MPEG-4/MJPEG
Audio Output. 1
Network Interface . . . . .2 x 1Gb 1000Base-T RJ-45
USB2 Ports . . . . .6 (2 front, 4 rear)
VGA/DVI Monitor Output 1
Operating System . . . . .Windows XP Pro
RAID5 Storage . . . . .Optional

Environmental

Operating Temperature . . . . .0° to 35°C (32° to 95°F)
Relative Humidity. . . . . .10% to 85% RH (noncondensing)
Storage Conditions . . . .-40° to 70°C (-40° to 158°F)

Regulatory

Emissions
  FCC Part 15 Class A
  EN55022:2006
  EN61000-3 2 :2006
  EN61000-3-3:1995 + A1:2001 + A2 :2005
  EN50130-4 :1995 + A1 :1998 + A2 :2003
Safety
  UL 60950-1
  EN 60950-1: 2001+A11

Minimum Specifications for Client Workstation

Operating System . . . . .Microsoft Windows XP or Vista
Processor . . . . .2 Ghz Celeron
Memory. . . . . .1 GB RAM
VGA . . . . .Standard high performance
Web Browser Compatibility . .Internet Explorer, Firefox, Safari, Opera, Google Chrome
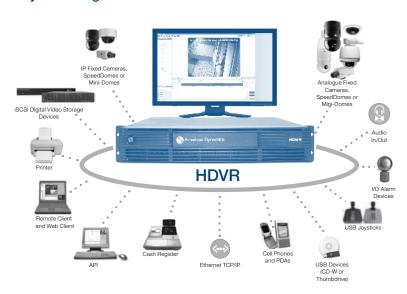Mobile Device Compatibility. .iPhone, iPod Touch, iPad, BlackBerry, Windows Mobile OS

Model Numbers

ADHD160100 . . . . .HDVR, 2U, 16 ch. analog/ 8IP, 1TB
ADHD160200 . . . . .HDVR, 2U, 16 ch. analog/ 8IP, 2TB
ADHD160300 . . . . .HDVR, 2U, 16 ch. analog/ 8IP, 3TB
ADHD160400 . . . . .HDVR, 2U, 16 ch. analog/ 8IP, 4TB
ADHD16R300 . . . . .HDVR, 2U, 16 ch. analog/ 8IP, 3TB, RAID5
ADHD320200 . . . . .HDVR, 4U, 32 ch. analog/ 8IP, 2TB
ADHD320400 . . . . .HDVR, 4U, 32 ch. analog/ 8IP, 4TB
ADHD320600 . . . . .HDVR, 4U, 32 ch. analog/ 8IP, 6TB
ADHD320800 . . . . .HDVR, 4U, 32 ch. analog/ 8IP, 8TB
ADHD32R700 . . . . .HDVR, 4U, 32 ch. analog/ 8IP, 7TB, RAID5
ADSHIP01 . . . . .Single IP Camera License
ADSHSSAIP01 . . . . .Software Update Subscription for single IP Camera
ADSH16SSA . . . . .Software Update Subscription for 16/8 HDVR
ADSH32SSA . . . . .Software Update Subscription for 32/8 HDVR

Hardware

	2U 16-channel	4U 32-channel
Dimensions W x H x D	48.26 x 8.89 x 57.79 cm (19 x 3.5 x 22.75 in)	48.26 x 17.78 x 57.79 cm (19 x 7.0 x 22.75 in)
Weight	12.25 – 14.51 kg (27-32 lbs)	20.87 – 25.40 kg (46-56 lbs)
Analogue Video inputs	16	32
Looping outputs	16	32
Audio inputs	16	32
Alarm inputs	16	32
Alarm outputs	8	16
Analogue Outputs	1	2
Relay Outputs	1	2
Serial Connections	RS232, RS422/RS485	RS232, RS422/RS485
Power	120/240 VAC / 300W	120/240 VAC / 400W

System Diagram

IP Fixed Cameras, SpeedDomes or Mini-Domes

Analogue Fixed Cameras, SpeedDomes or Migi-Domes

iSCSI Digital Video Storage Devices

Audio In/Out

Printer

HDVR

I/O Alarm Devices

Remote Client and Web Client

USB Joysticks

API

Cash Register

Ethernet TCP/IP

Cell Phones and PDAs

USB Devices (CD-W or Thumbdrive)