



Advanced Technology Video, Inc.



Falcon

Digital Video Recorder



Main Features:

Easy to navigate menus, simple setup
 "Pentaplex" unit - simultaneous functions
 Advanced Proprietary Compression Engine
 Record Speed Up to 60ips, Full Looping
 Single-channel Audio Recording
 Quick and easy Search Modes
 Controls most Speed Domes
 Remote Access Available
 Easy Installation



USB Interface for Easy Archiving

- Export Video clips to Zip Disk
- Portable storage for viewing on any PC
- No software is required to view
- Images are encrypted for security
- No special CD-R needed

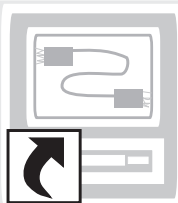
Model Numbers:

	16 Channel	9 Channel	4 Channel	1 Channel
80 Gb	FA-DVR16080e	FA-DVR9080e	FA-DVR4080e	FA-DVR1080e
120 Gb	FA-DVR16120e	FA-DVR9120e	FA-DVR4120e	FA-DVR1120e
240 Gb	FA-DVR16240e	FA-DVR9240e	FA-DVR4240e	

*Larger Hard Drives are always being added. Please contact ATV for details.

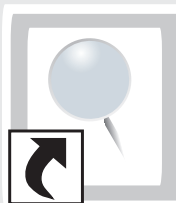
Remote Viewing Software

Easy Setup
 View live and prerecorded video
 Archive an event- send it by email
 View hundreds of DVRs at the push of a button
 Download it from our website - It is FREE!



IRAS Server

- Instantly check the status of remote DVR's
- Easily administer remote sites
- Save remote configurations to a local computer
- Simultaneously update multiple remote sites
- Perform automatic system checks



IRAS Search

- Easily search by Date, Event or Camera
- Saves pictures as video or still images
- Playback from one site while watching live video from another
- Digitally zoom recorded images








IRAS Watch

- View virtually any combination of 16 remote locations on a single screen
- Sequence through up to 256 remote sites automatically
- Pan, Tilt and Zoom cameras in real time
- Adjust Brightness, Contrast, Saturation and more

ATV's new digital compression technology lets you record longer in the same disk drive space, with the same high quality.



Better Compression means:

-  **Better Value:**
You can use a smaller HDD to record more
-  **More Reliable:**
Less stress on your HDD, because it is used less often
-  **Faster refresh rate at low network speeds**
-  **Less bandwidth needed for remote viewing**
-  **Faster HDD access, quicker access to playback**

Two Month Recorders

Recording at VHS quality, the following models are "Two Month Recorders" recording at one image, per camera, per second:

- FA-DVR4080e
(4 Channel, 80 Gb)
- FA-DVR9120e
(9 Channel, 120 Gb)
- FA-DVR16240e
(16 Channel, 240 Gb)

Compare ATV's Compression Rate:

Why is a smaller file size better?

The smaller the file size, the more images you can fit onto your hard disk. ATV's small file size will allow you to store up to 3 times more of the same quality images than the competition.

This chart illustrates how the ATV Advanced Compression Algorithm allows the Falcon DVR to record longer than the "other guys" - with the same quality video and storage capacity!

RECORDING PICTURE QUALITY	IMAGE SIZES			
	LOW	(VHS) STANDARD	(S-VHS) HIGH	VERY HIGH
ATV Falcon DVR	2Kb	3Kb	7Kb	18Kb
DM Digital Sprite	-	14Kb	18Kb	25Kb
Kalatel Calibur DSR2000	-	12Kb	21Kb	27Kb
Phillips DVR 1	-	22Kb	28Kb	-
Gyyr DVMS 100	14Kb	17Kb	23Kb	35Kb
Panasonic WJHD500/100	12Kb	18Kb	27Kb	45Kb
Sanyo DSR3000	-	17Kb	24Kb	32Kb
Toshiba KV-HD01A	-	16Kb	21Kb	32Kb



Sample Recording Times

Recording Time in days without using Motion Detection at one image, per camera, per second

Continuous Recording:

This chart shows recording durations (in days) based on recording 100% of the time without using any form of motion based recording.

This is considered a “worst case” example; in most situations, your recording durations will be longer.

	HDD Size	4 CHANNELS	9 CHANNELS	16 CHANNELS
<i>Low Resolution</i>		<i>Days of Recording:</i>		
<i>File Size:</i> 2 Kb	80 Gb	116	51	29
	120 Gb	174	77	43
	240 Gb	348	154	86
<i>Standard Resolution</i>		<i>Days of Recording:</i>		
<i>(VHS Quality)</i> <i>File Size:</i> 3 Kb	80 Gb	77	34	19
	120 Gb	116	51	29
	240 Gb	232	102	58
<i>High Resolution</i>		<i>Days of Recording:</i>		
<i>File Size:</i> 7 Kb	80 Gb	33	15	8
	120 Gb	50	22	12
	240 Gb	100	44	24
<i>Very High Resolution</i>		<i>Days of Recording:</i>		
<i>File Size:</i> 18 Kb	80 Gb	13	6	3
	120 Gb	19	9	5
	240 Gb	38	18	10

Recording Time in days using Motion Detection at one image, per camera, per second

	HDD Size	4 CHANNELS	9 CHANNELS	16 CHANNELS
<i>Low Resolution</i>		<i>Days of Recording:</i>		
<i>File Size:</i> 2 Kb	80 Gb	580	255	145
	120 Gb	870	385	215
	240 Gb	1740	770	430
<i>Standard Resolution</i>		<i>Days of Recording:</i>		
<i>(VHS Quality)</i> <i>File Size:</i> 3 Kb	80 Gb	385	170	95
	120 Gb	580	255	145
	240 Gb	1160	510	290
<i>High Resolution</i>		<i>Days of Recording:</i>		
<i>File Size:</i> 7 Kb	80 Gb	165	75	40
	120 Gb	250	110	60
	240 Gb	500	220	120
<i>Very High Resolution</i>		<i>Days of Recording:</i>		
<i>File Size:</i> 18 Kb	80 Gb	65	30	15
	120 Gb	95	45	25
	240 Gb	190	90	50

Motion Based Recording:

This chart shows recording durations (in days) when motion recording is used. This example is based on recording 20% of the time (when triggered by motion events.)

This example would be a typical office setting or retail location that is open 8-10 hours per day. Even businesses that are open 24 hours per day with a lot of motion rarely exceed 50% recording using motion detection.



Specifications

Video

Signal Format:	NTSC or PAL, Selectable Switch
Video Input:	Composite: 1 Vp-p, Full looping Auto Terminating, 75 ohms Multi Channel: BNC Inputs Single Channel: SVHS or BNC
Video Output:	Composite: One each, 1Vp-p, 75 ohms, BNC SVHS: One each
Video Resolution:	720x480 (NTSC), 720x576 (PAL)
Playback/Record Speed	
Simplex Mode:	60 ips (NTSC), 50 ips (PAL)
Duplex Mode:	30 ips (NTSC), 25 ips (PAL)

Inputs & Outputs

Alarm Input:	1 per camera
Alarm Output:	2
Alarm Reset Input:	1 dry contact
Internal Buzzer:	80db at 10cm
Network Connectivity:	10/100 Mbit Ethernet, RJ45
Audio Input:	1 line or mic (programmable)
Audio Output:	1 line
-Single Channel Only-	
One Shot Recording:	1 dry contact
Trigger Out:	1 dry contact
Record Start In/Out:	1 dry contact

Connectors

Audio In/Out:	1/1, RCA
Alarm In/Out:	Single Channel: Terminal Block Multi Channel: Connector Board
Ethernet Port:	10/ 100 Mbit, RJ-45
RS-232 Serial Port:	DB9 Connector
RS-485 Serial Port:	Single Channel: Terminal Block Multi Channel: Connector Board

System

Operating System:	Linux Based, embedded
RAS Software Compatibility:	Windows 98, 2000, XP

Electrical

Power:	Multi Channel: 12VDC, 6 amps (max.) Single Channel: 120-240 VAC
Approvals:	UL, FCC, CE

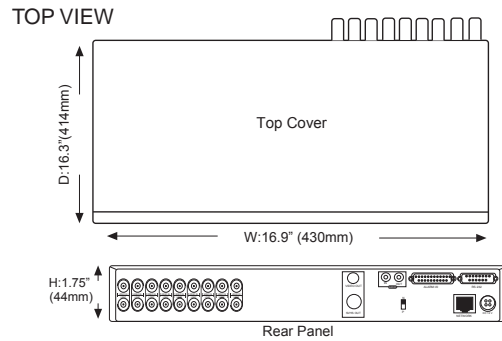
Mechanical

-Dimensions-	
Multi Channel Unit:	16.875" x 1.78" x 16.3" 428.6mm x 45.2mm x 414mm
Single Channel:	16.875" x 1.78" x 14.4" 428.6mm x 45.2mm x 365mm
Weight:	18.7 lbs / 8.5 Kg

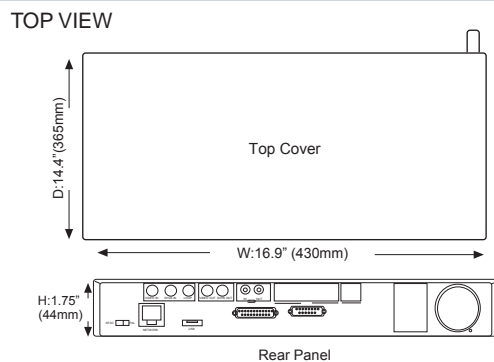
Storage

Primary Storage:	EIDE HDD
Secondary Storage:	USB
Available HD Sizes:	80, 120 or 240 Gb

Unit Diagram-Multi Channel



Unit Diagram-Single Channel



System Diagram

