

*Advanced Technology Video, Inc.*



## Real-Time H.264 Compact 4-Channel DVR

- Four channel Digital Video Recorder with four channels of audio
- Built in Web Server allows Remote Connection through a web-browser e.g. Internet Explorer v6.0 or higher
- Real Time Recording with H.264 compression
- Records up to 120 images per second
- Selectable record resolution (CIF, 2CIF, 4CIF)  
(120-ips, CIF resolution)  
(60-ips, 2CIF resolution)  
(30-ips, 4CIF resolution)
- Variable recording speed and quality selectable by camera
- Time-lapse, event and pre-event recording selectable by camera
- User friendly graphical user interface (GUI) with PTZ control (RS-485)
- Integrated (2.0) USB port for image archiving
- Video and VGA concurrent monitor outputs
- IR remote control included
- Integrated point-of-sale (POS) interface
- Quad, full screen and sequential camera views with built-in 2x zoom
- Remote monitoring using TCP/IP
- Built-in motion detection, RS-232 text-in, alarm-in and video-loss alarm inputs
- Powerful search function for calendar, date / time, event, and POS query
- Key-Lock security / 256 individual users
- Chained fingerprint encryption
- Callback (TCP/IP), pager function, or SMTP email
- Compact size - less than 2" tall

# FA-HDR4 Specifications

## MODELS

**FA-HDR4-500**

Falcon HDR Series DVR, 4-Ch, 500GB HDD, Networkable, 120/60/30 ips

**FA-HDR4-1TB**

Falcon HDR Series DVR, 4-Ch, 1TB HDD

## ACCESSORIES

**XDLBB** Lock Box  
**RM-SDR402** IR Remote Control (Supplied)

## VIDEO

**Signal Format** NTSC or PAL (auto detect)  
**Video Input Composite:** 4 looping inputs  
**Monitor Outputs Composite:** One (BNC), 1 Vp-p, 75 Ohms  
**Monitor Outputs Composite:** Analog RGB: One VGA  
**Display Resolution** 720x480 (NTSC)  
**Record Resolution** CIF, 2CIF, D1  
**Playback/Record Speed (images per second)** 120ips (standard resolution)  
60ips (high resolution)  
30ips (very high resolution)

## INPUTS/OUTPUTS

**Alarm Input** 4 TTL, NC/NO programmable, 4.3V threshold  
**Alarm Output** 1 relay out, terminal block, NC&NO, 0.5A @ 125VAC, 1A @ 30VDC  
**Alarm Reset Input** 1 TTL, terminal block  
**Internal Buzzer** 80db at 10cm  
**Network Connectivity** 10/100 Base Ethernet  
**Audio Input** 4 line level  
**Audio Output** 1 line level

## CONNECTORS

**Video Input Composite** 4 BNC  
**Video Loop Composite** 4 BNC  
**Monitor Output Composite** 1 BNC (selectable CVBS - VGA)  
**Monitor Output VGA** 1 VGA; 15 pin D  
**Audio In** 4 RCA connector  
**Audio Out** 1 RCA connector  
**Alarms** Terminal block  
**Alarm Reset In** Terminal block  
**Ethernet Port** RJ-45  
**RS-232C Serial Port** DB9 (P)  
**RS-485 Serial Port** Terminal block  
**USB Port** 1 front panel (USB 2.0)  
**IR Port** 1 remote control

## STORAGE

**Primary Storage** 1 HDD  
**Backup Storage** USB (HDD, CD-RW, Flash Drive)

## GENERAL

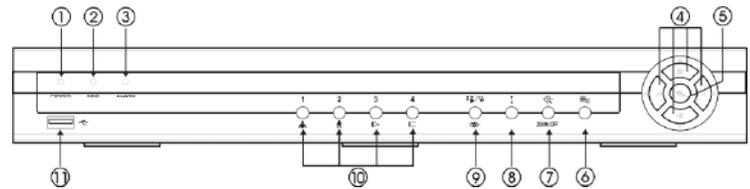
**Dimensions (W x H x D)** 13.38" x 1.81" x 12.20"  
(340mm x 46mm x 310mm)  
**Unit Weight** 7.05 lbs. (3.2kg)  
**Shipping Weight** 9.7 lbs. (4.4kg)  
**Shipping Dimensions (W x H x D)** 18.1" x 6.2" x 16.1"  
(460mm x 158mm x 410mm)  
**Operating Temperature** 41°F to 104°F (5°C to 40°C)  
**Operating Humidity** 0% to 90%  
**Power** 100-240 VAC, 0.6A, 50/60Hz

## APPROVAL

UL, CB, CE, FCC, MIC

Specifications subject to change without notice.

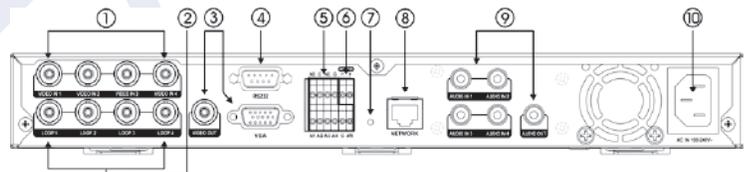
## Front Panel



- ① Power LED
- ② HDD LED
- ③ Alarm Out LED
- ④ Arrow Buttons
- ⑤ Enter/Pause Button
- ⑥ Menu Button
- ⑦ PTZ/Zoom Button
- ⑧ Panic Button
- ⑨ Playback Mode/Clip Copy Button
- ⑩ Camera Buttons
- ⑪ USB Connector

\*Select camera buttons (1-4) to view cameras.

## Rear Panel



- ① Video Input
- ② Video Loop Through
- ③ Video Out
- ④ RS232 Port
- ⑤ Alarm Input/Output
- ⑥ RS485 Port
- ⑦ Factory Reset Switch
- ⑧ Network Port
- ⑨ Audio In/Out
- ⑩ Power Cord

## Storage Duration

The FA-HDR4 with 500GB HDD records up to 120 images per second at standard resolution (30-ips per channel) and the tables illustrate a typical recording duration for CIF, 2CIF and D1 record resolutions with a single video input, with continuous video recording and no audio for the recorder with a 500-GB hard disk drive. The actual storage duration will vary depending on the number of cameras recorded, the image quality selected, the recording speed, recording schedule, motion content of the images and the number of stored events.

500-GB HDD	Image Quality settings @ CIF Resolution			
	Basic	Standard	High	Very High
<b>Record Rate (ips)</b>	<b>days</b>	<b>days</b>	<b>days</b>	<b>days</b>
30	96.5	48.2	32.2	24.1
15	96.5	48.2	24.1	16.1
5	289.4	144.7	72.3	48.2
1	1446.8	723.4	361.7	241.1

500-GB HDD	Image Quality Settings @ 2CIF Resolution			
	Basic	Standard	High	Very High
<b>Record Rate (ips)</b>	<b>days</b>	<b>days</b>	<b>days</b>	<b>days</b>
15	48.2	24.1	12.1	8
10	72.3	36.2	18.8	12.1
5	144.7	72.3	36.2	24.1
1	723.4	361.7	180.8	120.6

500-GB HDD	Image Quality Settings @ D1 Resolution			
	Basic	Standard	High	Very High
<b>Record Rate (ips)</b>	<b>days</b>	<b>days</b>	<b>days</b>	<b>days</b>
7.5	45.2	22.6	11.3	7.5
5	72.3	36.2	18.1	12.1
1	361.7	180.8	90.4	60.3

Storage is for one input; divide by number of cameras used.



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