

JHD SERIES JPEG 2000 / H.264 Dual Codec DVR's

**ARM
ELECTRONICS**

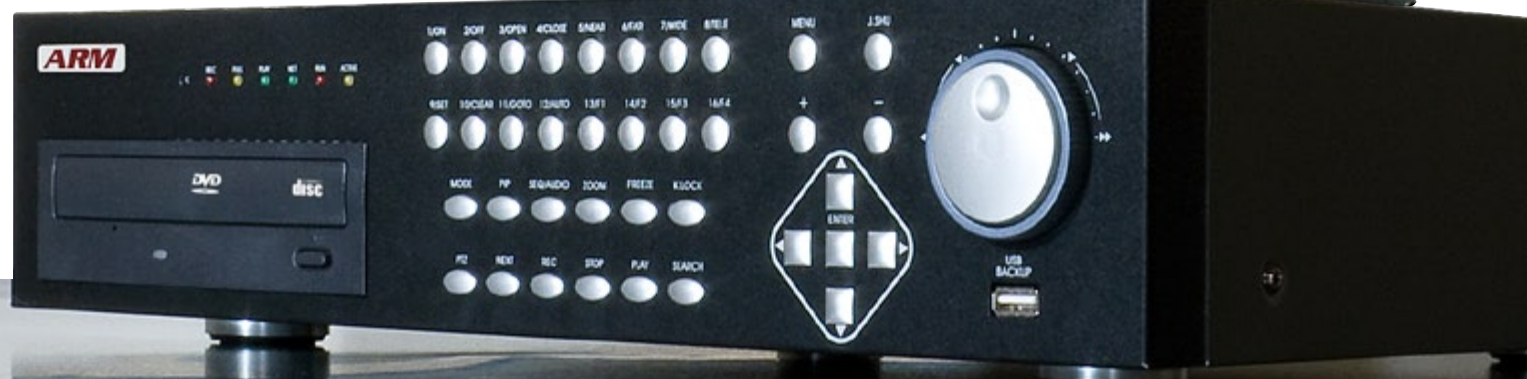
RECORDED IMAGE QUALITY AT ITS FINEST

When superior recorded image quality is your goal, the JHD series is your solution. Found in High Definition consumer products, JPEG 2000 is the leading video compression technology across all video markets. The dual codec feature uses JPEG 2000 for recording but network video transmission uses H.264 compression. H.264 is less demanding on bandwidth and provides smooth network video transmission. The convenience of a jog shuttle makes for fast searching of recorded video, which can be easily archived to the built-in DVD-R/W or USB. The ARM JHD series is feature-packed with:

- Up to 240FPS High Quality Recording
- Up to 3.0TB Internal Storage
- Triplex Operation
- Dual Codec Compression
- Mouse Control (mouse included)
- VGA Video Output

Get the Best of Both Worlds.

Highest Quality
Recording (JPEG 2000)
Lowest Bandwidth
Consumption (H.264)



Monitor shown is ARM LCD1920HG
with JHD Remote Software. Monitor
not included.

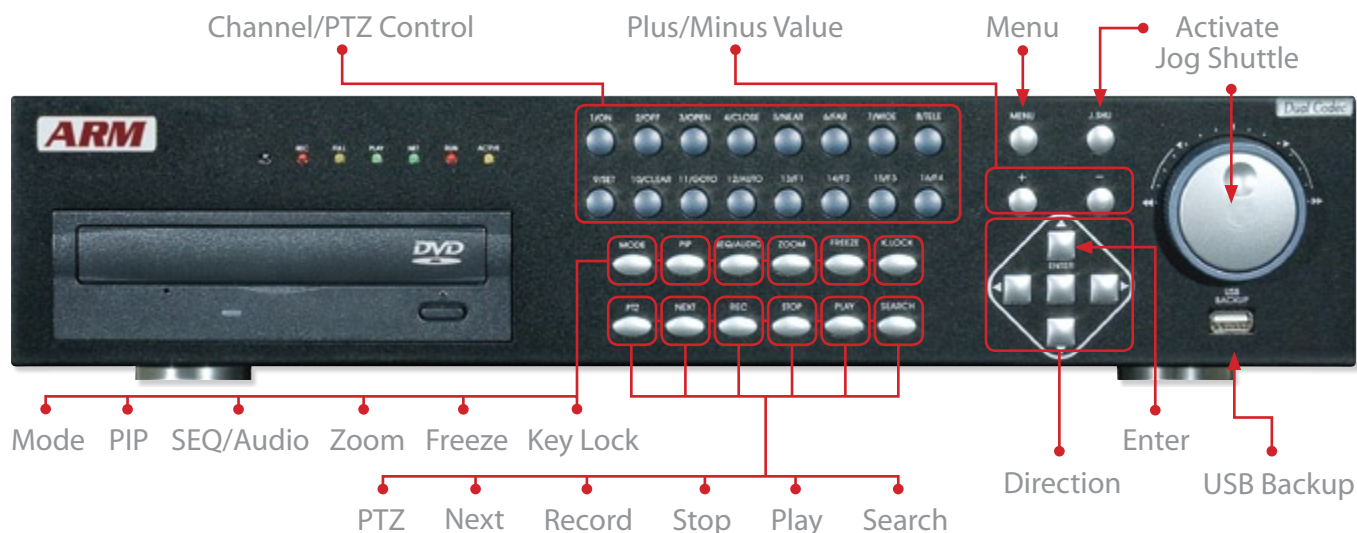
**ARM
ELECTRONICS**

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JHD SERIES JPEG 2000 / H.264 Dual Codec DVR



FEATURES + BENEFITS | FRONT PANEL DEFINITIONS



HIGH PERFORMANCE

Triplex Operation

View, record, playback and remotely monitor all at the same time.

240 FPS Recording

Record up to 240FPS simultaneously across 8 channels for smooth playing high quality video.

JPEG 2000 Compression

Used in consumer high definition technology, JPEG 2000 provides for the best recorded video quality.

H.264 Transmission Compression

The latest video compression technology reduces bandwidth usage for smoother network playback.

Up to 3.0TB Storage

Increase your recording time with up to 3.0TB of storage.

CONVENIENCE

Mouse control

Included PS/2 mouse makes menu navigation and set-up easy.

Easy Archiving

Quickly offload archived video via USB 2.0 or DVD-R/W.

Built-in PTZ Control

Effortlessly control PTZ cameras without the need for external controllers.

Multiple Viewing Options

View video using VGA or BNC main monitor outputs.

Jog Shuttle

Easily allows for single-step reviewing of recorded video.

PIP (Picture in Picture)

Give high profile areas a larger display area with PIP mode.

Digital Zoom

Get 2x closer in Live or Playback mode with Digital Zoom.

TOTAL SECURITY

Image Authentication

Recorded video is watermarked and unalterable.

Advanced Protection

Multiple passwords support various levels of user access.

Linux-Based OS

Embedded operating system is virtually immune to common PC based viruses.

Alarming

Integrated alarming inputs for external devices including door-locks, sirens, PIR detectors, etc.

Motion Detection

Maximize your storage by only recording video when motion is detected.

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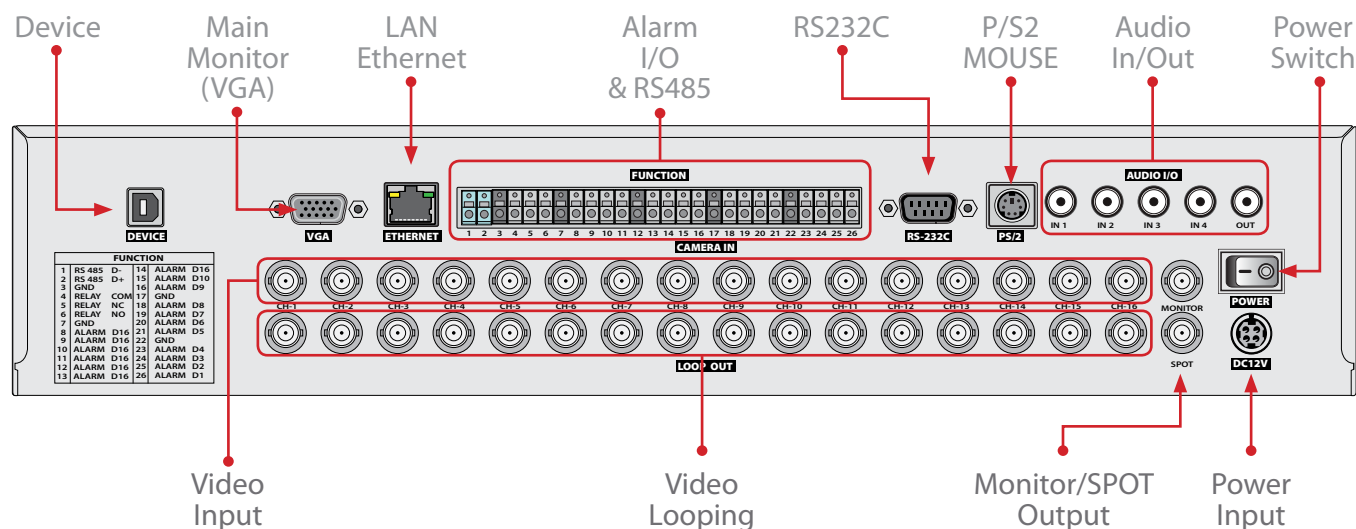
HARD DRIVE OPTIONS | REAR PANEL DEFINITIONS | ACCESSORIES



HD Size	4 Channel 120FPS	8 Channel 240FPS	16 Channel 240FPS
500GB	JH4D500	JH8D500	JH16D500
1.0TB	JH4D1000	JH8D1000	JH16D1000
1.5TB	JH4D1500	JH8D1500	JH16D1500
2.0TB	JH4D2000	JH8D2000	JH16D2000
3.0TB	JH4D3000	JH8D3000	JH16D3000

*** 1 week continuous recording uses approx. 1.0TB at best quality for 120FPS models / 2.0TB for 240FPS models.
Results may vary depending on settings and complexity of video being recorded.

REAR PANEL DEFINITIONS



INCLUDED ACCESSORIES

All Units Include:

- (1) Power Cord
- (1) Power Supply
- (1) Software CD
- (1) Remote Control
- (2) AAA Batteries
- (1) User Manual
- (1) PS/2 Mouse



RECOMMENDED ACCESSORIES



CBL3BNC
3' BNC Cable
Also Available in
6', 25', 50' and 100'



VCCORD
1000' Twisted Pair
Video Balun with
15" BNC Cable



CSP1
5AMP Max Current
Coaxial Surge
Protector



LCD1920HG
19" LCD Monitor
Also Available
in 15" and 17"



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TECHNICAL SPECIFICATIONS

	SPECIFICATIONS	4 CHANNEL / 8 CHANNEL / 16 CHANNEL
VIDEO	Operation System	Embedded (Linux)
	Video Standard	NTSC
	Video Operation	Triplex (Live, Record, Playback, Remote Internet Access)
	Resolution-Live Video	NTSC 720x480
	Video Input	BNC x 4/8/16 Channel, 1.0Vp-p / 75ohm
	Video Output Main Monitor	BNC x 1, 1Vp-p / 75ohm
	Call Monitor	BNC x 1, 1Vp-p / 75ohm
	Loop	BNC x 4/8/16 Channel, 1.0Vp-p / 75ohm
	VGA Output	800x600, 1024x768, 1280x1024 pixels @60Hz
	Picture Refresh Rate	Real Time for All Channels
	Display Mode	4CH (1, 4) / 8CH (1, 4, 6, 8, 9) / 16CH (1, 4, 6, 8, 9, 13, 16)
	Digital Zoom	Live and Playback 2X
AUDIO	Camera Installation	Plug and Play
	Input	RCA x 4, Line-In
	Output	RCA x 1, Line-Out
	Recording Mode	Real Time Recording Synchronized with Video
	Data Rate	120kb/sec
	Operation	Remote
RECORDING	Playback	Only for Playback Video at Original Speed
	Compression Method	JPEG 2000: Recording and Playback / H.264 Transmission Via Network
	Recording Mode	Alarm, Motion, Continuous, Schedule
	Post-Alarm	1-300 seconds
	Resolution/Frame Rate Half-D1 – 720x240	4CH, 60 FPS / 8-16CH, 120 FPS
	CIF – 360x240	4CH, 120 FPS / 8-16CH, 240 FPS
	Half-CIF – 360x120	4CH, 240 FPS / 8-16CH, 480 FPS
	Recording Quality	5 levels (Low, Middle, High, Super, Hyper)
PLAYBACK	Image Size	12-28KB/second (720x240)
	Storage Mode	Linear/Circular
	Playback	Play, Stop, Pause, Rewind, Fast Forward, Search
	Playback Speed Adjust	2x, 4x, 8x, 16x, 32x, 64x (Fast Forward or Rewind)
STORAGE	Retrieve	Percentage, Time/Date, Event
	Built-in Storage	DVD+RW
	Built-in HDD	Up to 2 SATA HDD
ALARM	Export	IE Explorer, (1) USB 2.0, (1) DVD+RW
	Alarm Input	4/8/16CH Terminal Block
	Alarm Detection	N.O/N.C, 1 Output, Programmable
	Auditory Alert	Built-in Buzzer
	Motion Detection	Grid 16 X 12 Area Division
	Video Loss Detection	Built-in Buzzer
COMMUNICATION	Alarm Relay Output	1 Programmable Alarm Output Duration
	Network Connectivity	Ethernet RJ-45 connector 10/100 Mbps, support PPPoE, DDNS, TCP/IP
	Remote Control Software	Included
	Access Control	3 Level Password Protection
	Remote Operation	Monitor, Playback, Recording, System Set-up, PTZ Control, Archive
	RS232C	Controls DVR Host
	RS485	Alarm I/O PTZ Control
	Dome control Protocol	Pelco D
GENERAL	Unit Dimension (WxHxD)	17" x 15.7" x 3.6"
	Unit Weight	16.5 lbs (w/o HDD)
	Package Dimension (WxHxD)	21.8" x 18.5" x 5.5"
	Package Weight	20 lbs
	Operation Temperature	41°-104°F
	Relative humidity	Less than 90%
	Power Consumption & Input	12vDC @ 6.67Amp