



QHD Hybrid DVR

(4MP EX-SDI + EX-SDI + HD-SDI + TVI + CVI + AHD + SD)

**EX-SDI 16CH 4MP Half-Time Recording(240FPS)
1080p Real-Time Recording (480FPS)**



FHR Series

Major Features

- 16CH 4MP Half-Time Recording. 1080p Real-Time Recording
- 4MP / 2MP / 1.3MP Camera input compatible available
- Upstream Communication Channel supports, Camera OSD control on the DVR.
- Pentaplex Operations (Simultaneous Live, Recording, Playback, Network, Backup).
- Various Playback mode support (Museum, Panorama, Event and Section Repeat Playback).
- Viewer software for SMART PHONE (I-pad, I-phone, Android).
- E-Mail Notification on specific events.
- Free DDNS support.
- Digital zoom in live view & playback.
- E-SATA and SATAII support.
- Gigabit Network.
- Remote Firmware upgrade.
- Dual Streaming support.



Live Viewer



SMS eMap



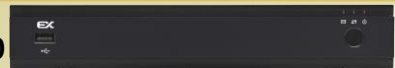
Web Viewer



Smart Phone  



FHR400



FHR800



FHR1600



- 4MP EX-SDI 240FPS Recording
- 4K Display

Model	FHR-1600	FHR-800	FHR-400	
Performance	PENTAPLEX			
Display Speed	Real-Time			
Recording Speed	Max. (1440P) 4M	240 fps	120 fps	
	Max. (1080P, 720P)	480 fps	240 fps	
Video In	Channel	16CH (BNC)	8CH (BNC)	
	Transmission	EX-4M, EX-TDM, EX-SDI, HD-SDI, TVI, CVI, AHD, SD		
Video Out	Main Display	HDMI / VGA / Composite		
	Main Display Resolution	3840x2160(p), 1920x1080(P), 1600x1200(P), 1440x900(P), 1280x1024(P), 1280x720(P), 1024x768(P)	3840x2160(p), 2560x1440(p), 1920x1080 (P), 1600x1200(P), 1440x900(P), 1280x1024(P) , 1280x720(P), 1024x768(P)	
	SPOT	HD-SDI SPOT 1 1~8 ch SD SPOT 1 9~16ch SD SPOT 1	Analog 1CH (RCA)	Analog 1CH (RCA)
Audio	Input / output	16/1 (RCA)	8/1 (RCA)	4/1 (RCA)
Alarm	Input / output	16/4	4/1	4/1
UCC digital & UTC analog		16	8	4

Details

Screen	Display Split	1,4,7,9,10,13,16		
	Interface	Graphic User Interface		
Video	Codec	H.264		
	Image Quality	4 Levels (Low / Normal / High / Highest)		
	Recording type	Schedule / Continuous / Event (Motion)		
Storage	Interface type	SATA 2.0		
	HDD	Up to 5 HDD's	Up to 2 HDD's	Up to 1 HDD's
	e-SATA	1 e-SATA	Not supported	Not supported
Connectors	USB port	USB 2.0 2 PORT (Front)	USB 2.0 2 PORT (Front 1, Rear : 1)	USB 2.0 2 PORT (Front 1, Rear : 1)

Function

Live Display	OSD	On / Off		
	Border Color / Digital Zoom	Selectable / Up to 4X		
	Cameo	Camera Adjustment / Camera position change / Freeze / Audio on		
Motion	Area	Adjustable GRID (16 X 12)		
	Sensitivity	5 Level motion detection		
System	Hidden Video	Video is hidden in Live view but it is recorded		
	PTZ	Supported recent PTZ camera protocol / Preset up to 255 / RS 485		
	Private Zone	Block the private zone in live camera view		
	Auto Time Synch	By NTP(Network Time Protocol)		
	Firmware Update	Via USB / Network		
Event	SMART HDD	Auto Detect & Monitoring HDD's problem		
	Source	Motion / Video loss		
	Action	Recording, e-Mail, Log file, Send message to Remote, Buzzer, Pop Up Window, PTZ preset		
	Pre/Post REC	Yes (Up to 10 sec / Up to 100 sec)		
Search	Speed	x1, x2, x4, x8, x16		
	Quick / Event search	Search by time with calendar / Search by event		
	Repeat search	Select specific time period and playback repeatedly		
	Panorama search	Frame by frame		
	Smart search	Search only specific selected area		
Backup	CAMEO	Live monitoring during playback, Playback camera change, Freeze and Digital zoom		
	File format	DVR Format		
	Media	USB / DVD	USB	
Network	Protocol	Static IP, DHCP, DDNS		
	Physical / Mac Layer	RJ45 (10/100 /1000 Mbps), Ethernet		
	Browser	SMS, Web Viewer, Smart Phone Viewer (Android, I-phone)		

Environment

Operating Temperature / Humidity	0~40°C / 20~80% RH		
Dimension / Weight	430(W) X 443(D) X 88(H) / 8Kg (without HDD)	350(W) X 258(D) X 70(H) / 3Kg (without HDD)	260(W) X 237(D) X 44(H) / 1.2 Kg (without HDD)
Power Requirement / Consumption	AC 100V~220V (50Hz-60Hz) / 200W	12V 5A / Adaptor 60W	12V 3A / Adaptor 36W