

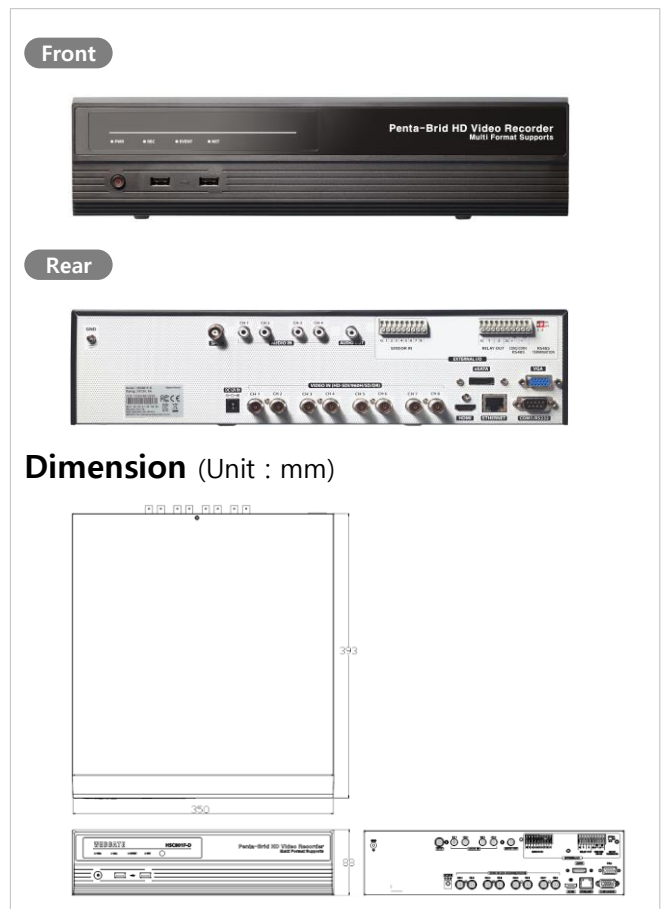


HSC821F-D

Full-HD & Full-Frame DVR supporting EX-SDI, AHD

Key Features

- 8ch Standalone DVR supporting multi-video input
- Supports diverse video standards
 - Digital HD : HD-SDI, EX-SDI / 1080p, 720p
 - Analog HD : AHD 2.0 / 1080p, 720p
 - Analog SD : 960H, SD / 960H, 480i, 576i
 - IP camera : ONVIF & WESP protocol camera support (TBD)
- Built-in EX-SDI receiver function for all channels (Supports up to 400m HD video transmission without repeater)
- Up to 30fps(25fps) recording and playback per channel
- Adjustable recording quality and framerate per channel
- Fire alert to DVR, CMS and smart phone when using with flame detection camera
- High-resolutions over 1200TVL at Live/Playback for HD1080p
- Supports Dual Codec(H.264, JPEG) & Multi Stream
- HDMI, VGA, BNC video output
 - HDMI : 1920 x 1080 video output
 - VGA : 1920 x 1080, 1280 x 1024, 1024 x 768, 800 x 600 video output
 - BNC : CVBS. User-defined display & Alarm spot monitor support
- Various Live and Playback display (1/4/9 Split-screen)
- Robust IPFR (Intelligent Power Failure Recovery) DVR File System
- Max. 2 Internal SATA Type HDDs (Up to 6TB each)
- Supports Max. 128TB(NS04R connection via Gigabit ethernet) and Max. 32TB(e-SATA) external storage interface
- RAID 1/5/10 support with NS04R (TBD)
- Date/Time, Calendar/Time-line, Event, Thumbnail(Time Interval), Text Search available
- At-the-PC Playback of removed DVR HDD
- Lightning arresters on Video input, RS-485, DIO ports
- Provides bundle CMS program, managing Max. 1,024 DVRs in various ways such as E-map, Viewset
- Java Viewer for Chrome, Firefox, Safari, Mac OS X
- Supports various mobile platform (iPhone/Android Viewer)
- Real time push alarm to smart phone
- Provides Full SDK for easy and powerful customization



Specifications

VIDEO INPUT			PTZ		
Video input Format	BNC	HD-SDI (SMPTE 292M), EX-SDI AHD 2.0, Analog 960H/SD	Protocols	41 models including C1080(D1080), C1080PT-Z20, Pelco-D, Pelco-P, Samsung, Panasonic and others	
	ETHERNET	IP Camera(Onvif, WESP)	NETWORK		
Resolution / Frame Rate	HD-SDI EX-SDI	1920x1080 / 25, 30fps 1280x720 / 25, 30, 50, 60fps	Interface	1 Gigabit Ethernet (10/100/1000Mbps)	
	AHD 2.0	1920x1080 / 25, 30fps 1280x720 / 25, 30fps	Type	Static IP, Dynamic IP, xDSL	
	Analog 960H	960x480 / 60i or 960x576 / 50i	DDNS	WNS, DynDNS, NoIP, WRS	
	Analog SD	720x480 / 60i or 720x576 / 50i	Bandwidth limit	Supported	
Connectors	8ch, 75Ω BNC connector		NTP	Server / Client / Both	
VIDEO OUTPUT			Users	10 Monitoring, 2 Playback	
Video output	HDMI VGA	1, 4, 9 split-screen HDMI : 1920 x 1080 VGA : 1920x1080, 1280x1024, 1024x768, 800x600 User defined display / Alarm pop-up / Sequential switching	Streaming	H.264 stream, High resolution 1 additional H.264 stream, Normal resolution 1 JPEG stream, Normal resolution for e-mail or mobile	
		BNC		1, 4, 9 split-screen CVBS User defined display / Sequential switching	
	SECURITY				
	RECORDING			User level	1 admin, 10 users
Compression	H.264 / JPEG		User privilege	Menu, PTZ, Relay, Playback, Power, Copy, Network MIC	
Resolution	1920 x 1080, 1280 x 720, 960 x 480(576)		IP filtering	Supported	
Rate	Max. 240/200fps		STORAGE & BACKUP		
Quality	10 levels up to 8Mbps		Storage devices	2 internal SATA HDDs, 1 external eSATA Interface, Gigabit network for NS04R(TBD)	
Mode	Continuous / Manual / Schedule		RAID Level	External storage including NS04R(Level 1/5/10)	
Schedule	24hrs / 7days		File system	Proprietary file system, Data-loss protection against power-failure	
PLAYBACK			Capacity	Max. 32TB with eSATA, Max. 128TB with cascaded NS04R 6TB HDD Supported	
Mode	Instant Playback / Search		Backup type	Multi-channel or Single channel avi file, JPEG(Capture)	
Speed	Max. 240/200fps		Backup device	USB 2.0 drive (2 ports)	
Search type	Date/Time, Calendar/Time-line, Event, Thumbnail(Interval/Motion), Text, Bookmark		S.M.A.R.T.	Temperature and Health checking	
Block playback	24hours ~ 99days		SERIAL & I/O		
EVENT & ALARM			Serial port	1 RS-232C, 2 RS-485	
Event source	MD(Motion Detection), Sensor, Text, Video Loss		Sensor input	8 Dry-contacts	
Event check Schedule	24hrs / 7days		Relay output	2 Relays	
Event action	Relay, Buzzer, E-mail, FTP, Video pop-up, Camera Preset, Mobile Alarm Push		CONTROLLER		
MD area	15 x 10		Device	IR remote controller, Joystick Keyboard, Mouse	
Sensor input	Dry contact (NO or NC selectable)		SOFTWARE		
Text input	POS/ATM support, AVE VSI Pro/Hydra support		Web viewer	Monitoring / Event / PTZ / Playback for IE	
SYSTEM ALARM			Java viewer	Monitoring / Event / PTZ for IE, Chrome, Safari, Mac OS X	
Alarm source	HDD fail, HDD almost full, Password fail, WRS fail		Mobile viewer	Monitoring / Playback / Alarm Push / PTZ / Audio / Log View with iPhone & Android	
Alarm action	Warning message, Buzzer, E-mail, Relay, Mobile Alarm Push		CMS	Control Center, Max. 1024 units	
AUDIO			SDK	ActiveX(COM) SDK	
Input/output	4 RCA input / HDMI & RCA output		ENVIRONMENTAL & PHYSICAL		
Compression	ADPCM (32Kbps, 16KHz, 16bit sampling)		Dimension	350(W) x 393(D) x 88(H) mm	
Direction	Both		Weight	8 Kg (No HDD)	
			Operating Temperature	5°C~45°C (41°F ~ 113°F)	
			Power	DC 12V / 5A	
			Power Consumption	Max. 40W, Typical 30W(1 HDD)	
			Approval	MSIP(KC), FCC, CE, RoHS	