



## Analog 2M(Full-Frame) / 4M / 5M DVR

## HAC850F-V3



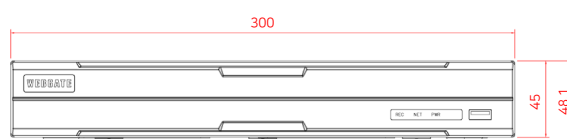
AHD 5M, 4M, 2M | TVI 5M, 4M, 2M | IP | H.265

## Key Features

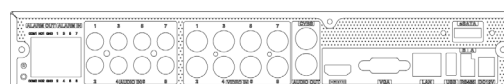
- Analog 2M(Full-Frame) / 4M / 5M 8CH DVR
- Analog : AHD(5M/4M/2M), TVI(5M/4M/2M), CVBS(960H, SD)
- IP(Ethernet) : Onvif, WESP / H.264, H.265
- 1 Internal SATA HDD
- HDD Capacity 12TB
- Service channel, Remote DVR
- VMS(Control Center), Mobile App(WebEye), HTML5 WebViewer

## Dimension

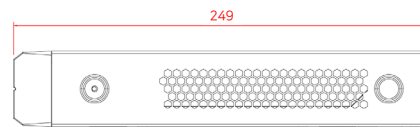
(300×249×45mm)



&lt;Front View&gt;



&lt;Rear View&gt;



&lt;Side View&gt;

## Tech Note

## Up to 5M image support

Full-HD image Full-Frame support and can be stored up to 5M resolution for clearer monitoring of wider areas and distant images

## Analog All in One DVR

Various video inputs such as TVI(5M/4M/2M), AHD(5M/4M/2M), CVBS, SD and IP (Onvif Profile S) are supported simultaneously  
Monitoring, recording, playback, backup and remote control of IP camera or other DVR  
Integration with Alarm or Audio of 3rd party's IPC

## UTC(CoC)

Camera control over coax cable

Control camera's OSD or zoom/focus remotely (DVR, PC) without additional cable construction

## Remote DVR Full control of remote DVR/NVR -Patent Application

Share DVR/NVR's main output on PC and real-time remote control from DVR/NVR's OSD menu on PC

## Free VMS

Provide Central Monitoring Software (Control Center)for free, supporting Max. 1,024 Units with various and great functions



DVR/NVR



CAMERA



ACCESSORY



SOFTWARE

## Analog 2M(Full-Frame) / 4M / 5M DVR

# HAC850F-V3



VIDEO INPUT		
Video input Format	BNC	AHD, TVI, CVBS(960H,SD)
	IP(Ethernet)	H.264, H.265 Protocol : WESP, Onvif Profile S (all ch support)
Resolution/Framerate	AHD	1920×1080@30fps, 1920×1080@25fps 2560×1440@30fps, 2560×1440@25fps 2560×1944@20fps, 2560×1944@20fps
	TVI	1920×1080@30fps, 1920×1080@25fps 2560×1440@30fps, 2560×1440@25fps 2560×1944@20fps, 2560×1944@20fps
	CVBS(960H)	960×480@60i, 720×480@60i 960×576@50i, 720×576@50i
	IP	1st stream: 1280×720~3840×2160(*) 2nd stream: max 720×576
Connectors	8ch, 75Ω BNC connector	
CoC	Control over Coax@AHD,TVI	
VIDEO OUTPUT		
Video output	Resolution	HDMI : 3840×2160(*), 1920×1080 VGA : 1920×1080, 1280×1024, 1024×768 BNC(CVBS) : 720×480, 720×576
	Modes	HDMI main + VGA spot HDMI main + CVBS spot HDMI/VGA Duplicate HDMI/CVBS Duplicate HDMI main + VGA(Service Channel) HDMI main + CVBS(Service Channel)
	BNC(CVBS)	1, 4, 9 split-screen, Switching
RECORDING		
Compression	H.264 / H.265 / JPEG	
Resolution	2560×1944, 2560×1440, 1920×1080, 960×480	
Rate	Total 240 fps, Max 30fps/ch @ 1920×1080 Total 120 fps, Max 15fps/ch @ 2560×1440 Total 80 fps, Max 10fps/ch @ 2560×1944	
Quality	10 levels up to 8Mbps@2M, 12Mbps@4M, 8Mbps@5M	
Mode	Normal/Event Record, Schedule/Event Record, Emergency Record	
Schedule	24hrs / 7days	
PLAYBACK		
Mode	Instant Playback / Search	
Speed	Max. 240fps	
Search type	Date/Time, Calendar/Time-line, Event, Thumbnail(Interval/Motion), Text, Bookmark	
Block playback	1day ~ 365days	
EVENT & ALARM		
Event source	Motion detection, Sensor input, Video Loss, Text input, AI, System	
Event check Schedule	24hrs / 7days	
Event action	Relay, Buzzer, E-mail, FTP, Video pop-up, Camera Preset, Mobile Alarm Push, System alarm	
MD area	15×10	
Text input	POS/ATM support, AVE VSI Pro/Hydra support	
SYSTEM ALARM		
Event source	HDD fail. HDD almost full, Password fail, WRS/DDNS fail, Recording Fail	
Event action	Pop-up Message, Buzzer, E-mail, Relay, Mobile Alarm Push	
AUDIO		
Input/output	8 RCA input / HDMI & RCA output	
Compression	G.711	
Direction	Both	
PTZ		
Protocols	HIK-C, AHD, C1080(D1080), C1080PT-Z20, Pelco-D, Pelco-P, Samsung, Panasonic and others	

NETWORK	
Interface	1 Fast Ethernet (10/100Mbps)
Type	Static IP, Dynamic IP
DDNS	WNS, DynDNS, NoIP, WRS
Bandwidth limit	0.01 ~ 100Mbps, unlimited
NTP	Server / Client / Both
Users	10 Monitoring, 4 Playback
RTSP	Supported
UPnP	UPnP auto port forwarding
Streaming	H.264 or H.265 stream, High resolution 1 additional H.264 or H.265 stream, Normal resolution 1 JPEG stream, Normal resolution
Service Streaming	Service Channel or Remote DVR
SECURITY	
User level	1 admin, 10 users
User privilege	Menu, PTZ, Relay, Playback, Power off, Copy, Network MIC, Camera setup
IP filtering	Supported
STORAGE & BACKUP	
Storage devices	1 internal SATA HDD, 1 external eSATA Interface
RAID Level	Not supported
File system	High-performance proprietary file system Data-loss protection against power interrupt
Capacity	12TB HDD Supported per SATA Port
Backup type	Multi-channel exe file, Single channel avi file, JPEG(Capture)
Backup device	2 USB 2.0 drive (1 front, 1 rear) FAT32(Max 32GB), NTFS (Min. 1GB)
S.M.A.R.T.	Health checking and alarm, Reallocation sector monitoring and alarm
SERIAL & I/O	
Serial port	1 RS-485
Sensor input	8 Dry-contacts + Sensor of IP Camera
Relay output	2 Relays
CONTROLLER	
Device	IR remote controller, Joystick Keyboard(option), Mouse
SOFTWARE	
HTML5 Webviewer	Monitoring / Event / PTZ / Playback for browser supporting HTML5
Webviewer	Monitoring / Event / PTZ / Playback for IE
Mobile viewer	Monitoring / Playback / Alarm Push / PTZ / Audio / Log View with iPhone & Android
CMS	Control Center, Max. 1024 Units
SDK	ActiveX(COM) SDK
ENVIRONMENTAL & PHYSICAL	
Dimension	300(W) × 249(D) × 45(H) mm
Weight	1.22Kg (No HDD)
Operating Temperature	5°C ~ 45°C (41°F ~ 113°F)
Operating Humidity	80% below, free of condensation
Power	DC 12V / 3A (Option : DC 12V / 5A **) - 소비전력이 6W 이상인 고용량 HDD를 사용할 경우 (option) 어댑터를 사용하시기 바랍니다. HDD의 소비전력은 HDD의 스펙을 참조하시기 바랍니다.
Power Consumption	4.7W (with out HDD)
Approval	KC, FCC, CE

(\* Marks- Scheduled to be supported)

\* Specifications are subject to change without notice for product improvement.