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

HAC850F

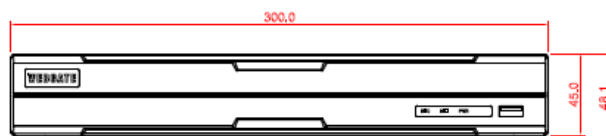**AHD 5M, 4M, 2M l TVI 5M, 4M, 2M l IP l H.264+ support**

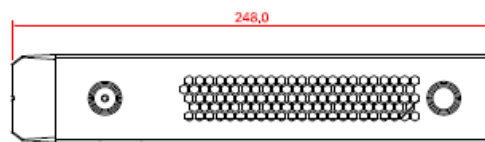## Key Features

(* Marks- Scheduled to be supported)

- 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.264+(*)
- 1 Internal SATA HDD
- HDD Capacity 12TB
- Service channel, Remote DVR
- VMS(Control Center), Mobile App(WebEye), HTML5 WebViewer
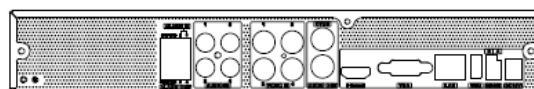
Dimension

(300×248×45mm)

300.0
45.0 48.1
<Front View>

248.0
<Side View>

<Rear View>

Tech Note

4M QHD & 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(4M/2M), AHD(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

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

HAC850F

VIDEO INPUT

Video input Format	BNC	AHD, TVI, CVBS(960H,SD)
	IP(Ethernet)	H.264, H.264+(*)
		Protocol : WESP, Onvif Profile S (all ch support)
Resolution / Frame Rate	AHD	1920×1080@30fps, 1920x1080@25fps 2560×1440@30fps, 2560x1440@25fps 2560x1944@20fps, 2560x1944@20fps
	TVI	1920×1080@30fps, 1920x1080@25fps 2560×1440@30fps, 2560x1440@25fps 2560x1944@20fps, 2560x1944@20fps
	CVBS(960H)	960×480@60i, 720×480@60i 960×576@50i, 720×576@50i
	Analog SD	720x480 / 60i or 720x576 / 50i
	IP	1st stream: 1280x720~2048x1536 2nd stream: max 720x576
Connectors		8ch, 75Ω BNC connector
CoC		Control over Coax@AHD,TVI

VIDEO OUTPUT

Video output	Resolution	HDMI : 1920×1080 VGA : 1920×1080 BNC(CVBS) : 720×480, 720×576
	Modes	HDMI/VGA Duplicate + Analog Spot
	BNC(CVBS)	1, 4, 9 split-screen, Switching

RECORDING

Compression	H.264 / JPEG / H.264+(*)
Resolution	2560x1944, 2560×1440, 1920×1080, 960×480
Rate	Total 240 fps, Max 30fps/ch @ 1920x1080 Total 120 fps, Max 15fps/ch @ 2560x1440 Total 80 fps, Max 10fps/ch @ 2560x1944
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 ~ 99days

EVENT & ALARM

Event source	Motion detection, Sensor input, Video Loss, Text input, 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, xDSL
DDNS	WNS, DynDNS, NoIP, WRS
Bandwidth limit	0.01 ~ 100Mbps, unlimited
NTP	Server / Client / Both
Users	10 Monitoring, 4 Playback
UPnP	UPnP auto port forwarding
Streaming	H.264 or H.264+(*) stream, High resolution 1 additional H.264 or H.264+(*) 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
Backup type	Multi-channel exe file, JPEG(Capture)
Backup device	USB 2.0 drive (2 ports)
S.M.A.R.T.	Multi-channel exe file, JPEG(Capture)

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) x 248(D) x 45(H) mm
Weight	1.2Kg (No HDD)
Operating Temperature	5°C~45°C (41°F ~ 113°F)
Power	DC 12V / 2A (Option : DC 12V / 5A) - It is highly recommended to use an option adapter to use a high capacity HDD with a power consumption of 8W or more. Please refer the HDD's specification for power consumption of HDD.
Power Consumption	6.3W (without HDD)
Approval	KC, FCC, CE, RoHS

(* Marks- Scheduled to be supported)

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