



### NON-PC-BASED ENCODER/DECODER

#### Non-PC-Based Encoder/Decoder

This Non-PC-Based unit is the latest Encode/Decoder from our laboratories, utilizing the most advanced technology in video/audio encoding/decoding, hard disk record and TCP/IP. It has both the features of a digital video/audio recorder (DVR) and digital video/audio server (DVS) . It can work as a stand-alone or be used to build a powerful IPTV network.

#### *Physical description*

- Max 4 video in (PAL, NTSC)
- Max 4 audio in (linear in)
- 1 video out (PAL, NTSC)
- 1 audio out
- 1 line in (for voice talk)
- 1 10/100M Ethernet
- 4 IDE, support max 8 hard disks of max 2000GB each
- 1 RS-485 for keyboard, 1 RS-485 for Pan/Tilt/Zoom Camera control
- 1 RS-232
- 1 USB
- 1 VGA
- Built-in CDRW
- 19-inch case (450mm\*450mm\*95mm)

#### **Functions :**

- Embedded Encoder/Decoder adopts a high performance embedded real-time multi-tasking operating system (RTOS) and an embedded CPU, to perfectly implement all the functions needed to build an IPTV Broadcast system.

Compression function:

- Support maximum 4 channels video in. Each channel can be compressed independently in 25F/S (PAL) or 30F/S (NTSC), using H.264 algorithm.
- Both variable bit-rate and variable frame rate are supported.
- Support max 4 channels audio in. Each channel can be compressed independently, using an OggVorbis audio standard. The output bit-rate is 16 kbps.
- The output video and audio streams are integrated to generate the synchronized H.264 stream. Video and audio coincide with each other from beginning to end when the stream is played back.
- Supports following resolution:
  - NTSC: 4CIF (704x480), DCIF(528x320), 2CIF(704x240),CIF(352x240), QCIF(176x120)
  - PAL: 4CIF (704x576), DCIF(528x384), 2CIF(704x288),CIF(352x288), QCIF(176x144)
- Supports position configurable OSD & LOGO.
- Supports watermark.

***Network Functions:***

- Supports TCP/IP (ARP, RARP, IP, ODP, TCP, PPP, PPPoE, DHCP, SNMP, etc).
- Supports broad-band transmission (ADSL, etc).
- Supports narrow-band transmission (PSTN, etc).
- Streams of one or more channels, Net DVR's running state and alarm state can be accessed through network.
- Systems parameters can be set through the network.
- Supports remote control of Pan/Tilt/Zoom Cameras.
- Streams can be recorded in a remote host PC .
- Files in Encoder/Decoder can be downloaded to or remotely played in a remote host PC.
- Supports remote upgrading.
- PC hosts can gain direct control of the system's RS-232 or RS-485 port.
- Supports voice talk between host in surveillance center (back end) and Net DVR (front end)
- Supports embedded web server. Browser can be used to access Net DVR.

***Storage Functions:***

- Won't lose frames when switch record files
- Can install 8 HDD and each HDD supports 2000GBytes
- Supports hard disk sleep mode.
- Supports FAT32 file system.
- Supports HDD smart
- Supports cyclic and non-cyclic record mode.
- Supports network access storage (NAS).
- Supports USB flash disk, USB hard disk, USB CDRW for backup.

***Preview & Playback Functions:***

- Supports Monitor;
- Supports VGA;
- Switch quickly in preview mode;
- Supports local file Play and time play, support play fast, play slow, pause, play frame one by one, etc;
- Supports OSD, LOGO

***PTZ control:***

- Supports Pan-Tilt-Zoom camera and Preset through front, keyboard and network;
- Supports most popular protocol;
- Ability to customize new protocol;

### Specifications:

Video Compression	H.264
Preview Resolution	NTSC: 704x480 PAL: 704x576
Compress Resolution	4CIF, DCIF, 2CIF, CIF, QCIF
Video Input	1/2/3/4 Channels BNC (1.0Vp-p 75 Ω)
Video Output	1 Channel BNC (1.0Vp-p , 75 Ω)
Frame rate	NTSC : 1/16&mdash;30 F/S PAL : 1/16&mdash;25 F/S
Stream Type	Mixed stream or Video Stream
Bit rate	16Kbps / 2Mbps (Self definition)
Audio Input	1/2/3/4 Channels, BNC ( Linear Electrical Level – Resistance:600Ω)
Audio Output	1 Channel, BNC ( Linear Electrical Level – Resistance:600Ω)
Audio Compression	OggVorbis
Audio bitrate	16Kbps
Voice Audio input	1 Channel, BNC ( Linear Electrical Level – Resistance:600Ω )
Communication Interface	1 RJ45 10M/100M UTP Network – 1 RJ45 for RS232, 1 RJ45 for RS485
Keyboard Interface	1 RJ45
Serial Link Interface	1 RJ45
HDD IDE Interface	4 IDE, support 8 HDD
USB Interface	1, support USB1.1; Support U flash disk, USB HDD, USB CDR/W
VGA Interface	1, Support 800 × 600/60Hz – 800 × 600/75Hz – 1024 × 768/60Hz
Power Supply	90—135VAC or 180—265VAC, 47—63 Hz
Power Consumption	37W
Temperature	–10°C — 50°C
Humidity	10% — 90%
Dimension	19" (450mm*450mm*95mm)
Weight	7.6Kg (DS–8008HC without HDD)

<b>Model</b>	<b>Description</b>
EME-01	1 Channel H.264AVC Embedded Hardware Encoder
EME-02	2 Channel H.264AVC Embedded Hardware Encoder
EME-03	3 Channel H.264AVC Embedded Hardware Encoder
EME-04	4 Channel H.264AVC Embedded Hardware Encoder
EMD-01	1 Channel H.264AVC Embedded Hardware Decoder
EMD-02	2 Channel H.264AVC Embedded Hardware Decoder
EMD-03	3 Channel H.264AVC Embedded Hardware Decoder
EMD-04	4 Channel H.264AVC Embedded Hardware Decoder