# ■H.264 Embedded DVR KE-7000MX
# (Open price)

- O/S : Embedded Linux
- Audio : G723.1
- Internal Bay :
  2 x SATA HDDs or
  1 x SATA HDD & 1 x DVD-Burner
- No Video Loop-Out
- 2 Main Monitors
  (Composite & VGA) &
  1 Spot Monitor(Composite)
- 4 Alarm Input & 1 Alarm Output
- Power : D/C 12V, 5A
- Dimension(WxHxD) : 360 x 66 x 380 mm
- Cerification : CE,FCC,MIC,WEEE & RoHS

## FEATURE

### ■ Compression Algorithm

**Video Compression**
DVR-dedicated H.264 compression chip for H/W compression.
No more comparison with MPEG4 or H.263.
* 60~70% of file size than MPEG4

**Audio Compression**
World best G.723.1 audio compression algorithm.
* The best bit rate than any others : 6.3 kbps
Precise synchronization of video and audio on both local and remote playback.

**Image Quality**
Crystal-like real-time recording up to D1 resolution.
De-interlaced feature at D1 resolution without any ghost residue.



D1 SIZE    CIF SIZE

### ■ Real-Time Networking

**Real-Time Transmission**
DVR can transmit distortion-free images at real-time speed under all resolution mode over network.

**Dual-Stream Function**
DVR simultaneously generates dual-stream images with adjustable fps and resolution (one for recording & the other for network transmission) for effective control of recording image quality and network traffic.



**Bandwidth Control Function**
DVR can control the data volume transmitted over network ranging from 25 kbps up to 100 kbps. This function is effective especially under narrow bandwidth network situation or when user wants to refine "network bandwidth occupied by video transmission" to a certain level.



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## ■ Remote Management
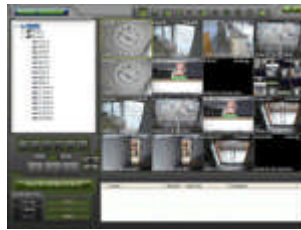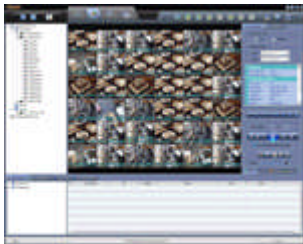
### Integrated Network Solution
Enterprise-level central management solution (CMS & RMS Software) guarantees unlimited scalability
 and control for all STL products such as DVR and IP camera over network.

### Mobile Viewer up to Market Trend
STL provides versatile mobile monitoring features. Under WAP Connection mode, user can connect to
 DVR by any kinds of mobile phone (2G & 3G) without installing any software on the phone. Smart
 phone connection through Wi-Fi or 3G is available for Windows Mobile O/S phone & Black Berry &
 iPhone, too.

### Scheduled Remote Backup
User can remotely backup the massive volume of data according to scheduled program at CMS software.
 Especially when the sensor is triggered, the system makes instant network connection and starts data
 backup.



## ■ System Stability

### Premium Hardware Design
Premium H/W platform with powerful CPU (up to 1.5 GHz)
will lead user to enjoy unbeatable system performance and
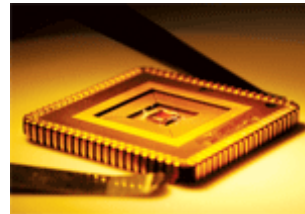 stability.

### System Recovery
System will be automatically rebooted by watchdog function
under abnormal situation. Besides, user can remotely reboot
 the system through M/S IE.



### System HDD Health Check
DVR constantly check the system status, and generates
warning message and alarm sound if any abnormal situation is
 found.
Especially for HDD status, user can get the full information
such as "capacity, bad sector ratio, life time (used period)
 and temperature" for instant action to prevent any loss of
 recorded image.

| MODEL | KE-7004MX(4Ch) | KE-7008MX(8Ch) | KE-7016MX(16Ch) |
|---|---|---|---|
| Compression Algorithm | Video:H.264,Audio:G723.1 | | |
| HDD Bay | 2 x STAT HDDs or 1 x SATA HDDs & 1 x DVD-Burner | | |
| Operating System | Embedded Linux | | |
| Video — Input | 4Ch | 8Ch | 16Ch |
| Video — Loop-Out | Not Available | | |
| Video Mode | NTSC / PAL Selectable | | |
| Display Speed (NTSC/PAL) | 120/100 fps | 240/200 fps | 480/400 fps |
| Screen Mode for Live Display | 1,4 & PIP | 1,4,9 & PIP | 1,4,9,16 & PIP |
| Video-Out — Monitor VGA Resolution | 2xMain Monitor(Composite,VGA)&1xSpot Monitor(Composite) VGA Resolution:640x480,800x600,1024x768 & 1280x1024(Selectable) | | |
| Recording Speed (NTSC / PAL) — 352x240/288(CIF) | 120/100 fps | 240/200 fps | 240/200 fps |
| Recording Speed (NTSC / PAL) — 750x240/288(2CIF) | 120/100 fps | 120/100 fps | 120/100 fps |
| Recording Speed (NTSC / PAL) — 750x480/576(D1) | 60/50 fps | 60/50 fps | 60/50 fps |
| Recording Resolution | NTSC : 352x240,720x240,720x480, PAL : 352x288,720x288,720x576 | | |
| Recording Modes | Continuous,Scheduled,Sensor-Activated & Motion Detection Recording Pre & Post Alarm Recording, Emergency Recording | | |
| Playback & Search — Speed | x1, x2, x4, x8, x16, x32 | | |
| Playback & Search — Function | 1, 4, 9 & 16 Ch(Multi-Channel Playback) Intelli-Search by Time Bar, Calendar(Date & Time) and Event/System Seaech | | |
| Audio Input / Output | 1 Ch Input / 1 Ch Output | | |
| Alarm Input / Relay Output | 4 Ch / 1 Ch | | |
| P/T/Z Control and Port | Virtual Joy-Stick Control on screen by mouse Pan/Tilt/Zoom/Focus/Iris, RS-485 Port | | |
| LAN | 10/100 Base-Tx Ethernet(RJ45)-Fixed IP, DHCP & DDNS, bandwidth limit | | |
| Network Transmission — Function | Video Dual-Stream(Local recording & Network Transmission) Live Monitoring,Remote Playback & File Backup(Triplex-on-Remote) Remote & E-Mail Notification, Remote System Reboot by IE | | |
| Remote PTZ Control | Pan/Tilt/Zoom/Focus/Iris | | |
| Remote Management — Software | RMS (RemoteManager S/W) & CMS (CenralManager S/W) | | |
| Remote Management — Web (IE) | Live Monitoring, Playback & System Configuration | | |
| Remote Management — Mobile (MMS) | iPhone, BlackBerry, Windows Mobile and WAP | | |
| Backup Device — Internal | ODD Burner (Option) | | |
| Backup Device — External | Local Backup by USB Memory Stick and Network Backup by CMS, RMS External USB, USB ODD | | |
| System Rcovery after Power Failure | Auto-Reboot and Journaling File System | | |
| Advanced Functions | Multi-Language, System Upgrade by USB & Network Configuration Import & Export, Water-Mark Warning Alarm for System Over-Temperature | | |
| System Operation | Front Button, IR Remote Controller, USB Mouse, Keyboard controller | | |
| Power | 12V x 5A D/C | | |
| Storage Temperature and Humidity | -20~60 C / 20~95% RH | | |
| Operating Temperature and Humidity | 5~40 C / 20~80% RH | | |
| Dimension (WxDxH) | 360 x 380 x 66 mm | | |
| Certification | CE & FCC & MIC & WEEE, RoHS | | |

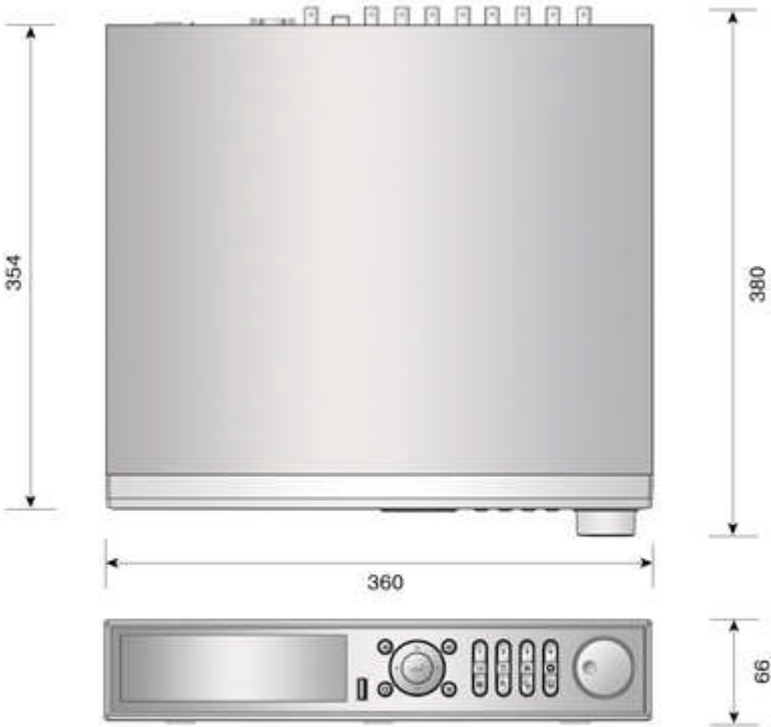(*)Specification is subject to change without prior notice

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[ 16Ch ]



[ 8Ch ]



[ 4Ch ]



354

380

360

66

| No. | Name | Description |
|-----|------|-------------|
| 1 | Video-in | Connect camera. (Supports NTSC/PAL) |
| 2 | Audio-in | Connect the audio input device (with amplifier) |
| 3 | Audio-out | Connect the audio output device (with amplifier) |
| 4 | Video-out | Connect the CCTV monitor |
| 5 | Spot-out | Connect the spot monitor |
| 6 | VGA-outt | Connect the P/C(VGA) monitor |
| 7 | USB Port | USB port for mouse operation or Image backup |
| 8 | LAN Port | 10/100 Ethernet connection terminal |
| 9 | NTSC/PAL Selection | Select the video signal type |
| 10 | RS-485 Port | Connect the PTZ camera and Keyboard controller |
| 11 | Sensor Input | Connect the external sensor |
| 12 | Alarm Output | Connect the external alarm device |
| 13 | Power input | Power cable connection (Default : 12 V, 5~8A) |
| 14 | Grounding Terminal | For device grounding |