LINUX DVR
DIGITAL AUDIO VIDEO RECORDER

Enhanced Version

What make it different — Choice of Performance

Embedded OS

- Embedded Linux OS
- Integrated Firewall via Port & IP Filtering
- Built-in DVD-R & USB disk interface

➤ Highly reliable in non-Stop Operation
➤ No hassle of virus, hacking or corrupted system files
➤ Support both video and system configuration backup

H.264 Encoding

- D1 video quality recording & live display
- 704x576 recording each channel
- Synchronized audio & video recording
- Small video file size

➤ 25fps (PAL) / 30fps (NTSC) each channel
➤ 4CIF each channel
➤ Triplex in recording/playback/remote
➤ Ample combination of video quality & compression

Optional Utility - Mascot Digital Video Management Software

- ▶ Multi-DVR/Multi-Site remote connection
- ▶ Simultaneous 36 DVR video on single screen
- ▶ Multi-Video Display up to 6x6 split screen
- ▶ Max. 4CIF remote video quality
- ▶ H.264 - Low bandwidth requirement
- ▶ Simultaneous Local Recording, Live Audio Video, Remote Audio Video, Remote Recording
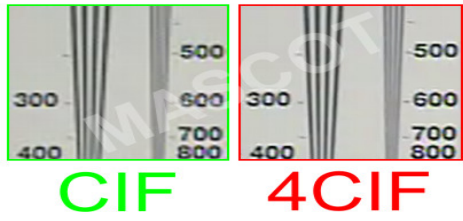
What makes Mascot II outstanding?

Embedded OS

Linux OS on Chip

Extremely stable & reliable

No system corruption or hang up

Internal Port / IP Filtering

No worry about virus, hacker or system security

Excellent Compression

2~4.5KB each frame @ high resolution

10~390MB storage per hour @25fps hi-resolution

True 4CIF (704 x 576) recording

Real time live display & audio

Each Channel 4CIF recording & playback

Configurable CIF / 2CIF / DCIF / 4CIF / Full D1
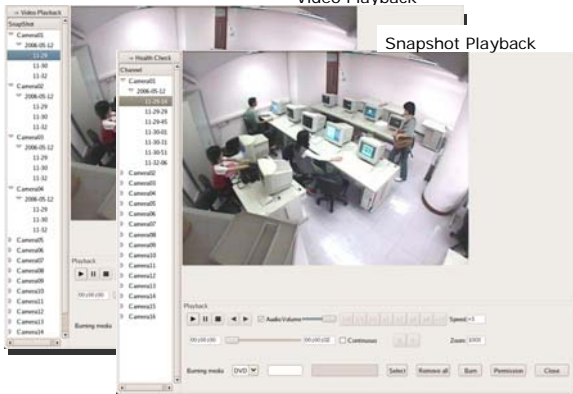
Video Playback <-> Health Check

Periodic video snapshot capture

Visual Check of video signal

Visual Check of system health

Verification of video motion or video loss
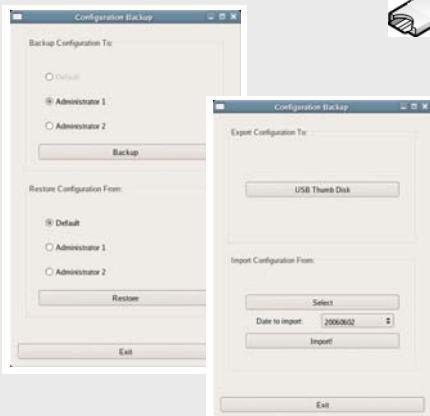
System Setup Back up

System Configuration import/export

USB thumb disk media

Effective maintenance on system recovery

Efficient installation of multi-DVR of same setup

Three configuration profiles each system

Audit Export

System audit log file backup

Export to USB thumb disk

Easy site maintenance and system analysis

What makes Mascot II further outstanding?
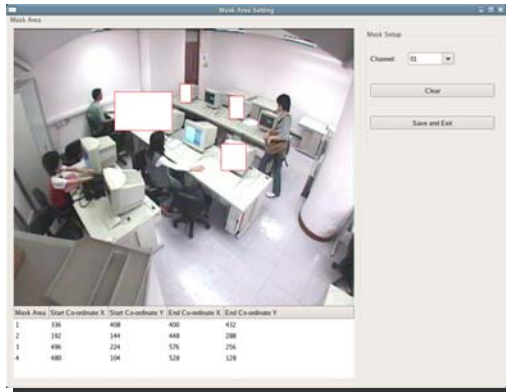
Video Masking

Max. 4 masks each video channel

Complied to privacy restriction

No video display or recording over the mask

Video Crop Tool

Crop recorded video file at any time length

User defined starting time

User defined end time

Merged into single file for evidence purpose

Playback on Window Media Player
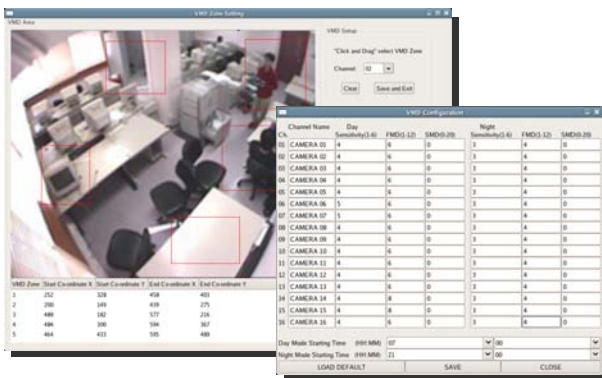
VMD zone & sensitivity

Multi-zone VMD

Sensitivity on Object Size

Sensitivity on Object Motion Speed

Sensitivity on Motion Level

Day Mode & Night Mode for different environments
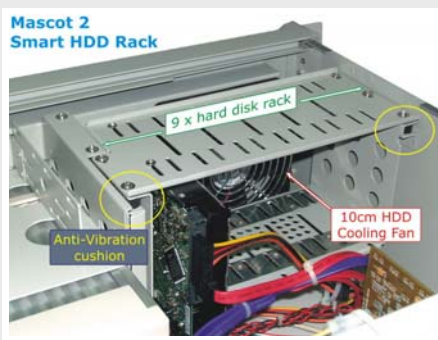
Enormous Storage

Max. 9 hard disk internal rack

Max. 3000GB internal storage

Support large size hard disk (500/750GB)

Support SATA HDD for higher reliability

Evidence Media Options

1.DVD-RW module

2.USB thumb disk

3.USB hard disk

4.Mobile SATA hard disk rack

True Hardware H.264 Encoding

* **Outstanding Video Quality**
* **Synchronized Audio Recording**

[1] Real Time Encoding & Compression

Real Time @25fps PAL or @30fps NTSC Each Channel

Synchronized audio video recording

Embedded Linux OS platform
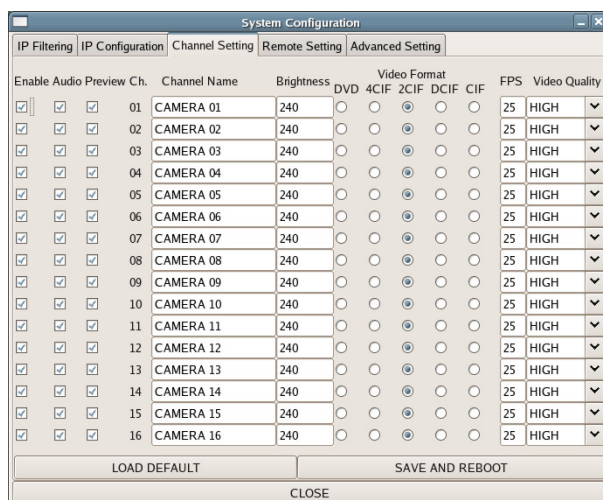
[1] 4CIF Recording Video Quality

Max. D1 high definition video (704x576)

OggVorbis high quality audio compression

[3] Five Recording Modes

Schedule / TL / Timer Recording

VMD Recording / Alarm Recording

[4] Network Remote Recording

Support multi-users network audio video recording

Small bandwidth requirement @~2.2kbps each channel

[5] Network Remote Video & Audio

Simultaneous network live video & audio

Simultaneous network video playback

Multi-users network audio video broadcasting

Web Video & Audio Browsing
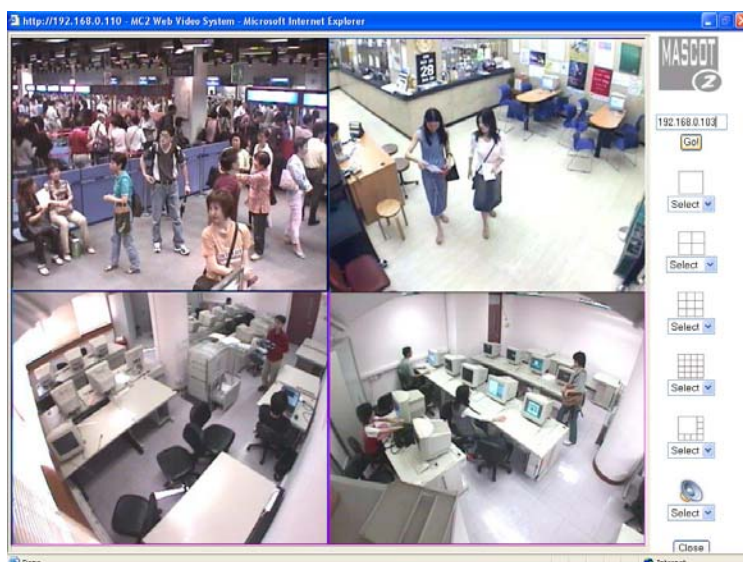
[6] Network Remote Security

Support IP Filtering & Port Filtering

No Anti-virus, firewall or service patch needed

Remote diagnosis and configuration

[7] System Configuration Backup

Configurations can be saved into USB thumb disk for another DVR restore

Speed up setting up a number of DVRs on different sites

Easy system maintenance and management

Remote Client Software (Bundled Free)

- Remote Live Video & Audio

- Remote Playback

- Remote Recording

Remote Client PC

Mascot II DAVR

WAN
e.g. Corporate Network

Mascot II DAVR

Mascot II DAVR

Mascot II DAVR

DVMS Software (Optional)

* Multi-Site/Multi-DVR Support (max. 500)

* Multi-Video on single screen (max. 6x6)

* Remote Video & Audio

* Refer "Mascot DVMS" for detail

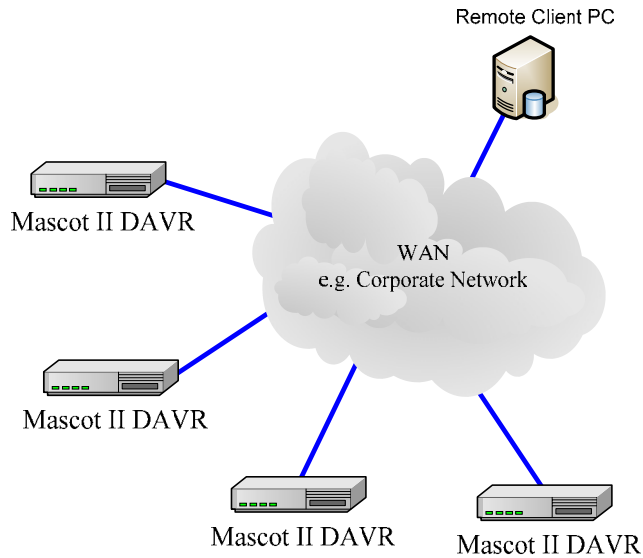| Remote Surveillance	
AV Encoding & Compression	Hardware H.264 Video & OggVobris Audio
Frame Size	Average 2.2k per video frame @hi-resolution
Local Recording File Size	Adjustable bit rate, frame rate and resolution for AV Recording
	Average 390MB per hour per video @25fps 4CIF
	Average 120MB per hour per video @25fps CIF
	Recycling recording mode (FIFO)
Watermark	Mascot Watermark Technology
Video Compression Bit Rate	30~9000Kbps adjustable for different quality level
Remote Bandwidth	Adjustable bit rate, frame rate and resolution for video transmission
	~384kbps @25fps hi-resolution
	~128kbps @15fps hi-resolution or @25fps low resolution
Remote Sits Per Client	128 Max.
Remote Clients Per Site	10 Max. (UDP) / 128 Max. (MultiCast)
Live & Playback	Support Remote Real Time Viewing & Playback in Audio & Video
Resilient Recording	Simultaneous Fault Tolerant & Redundant Remote Recording
Remote Management	Support Remote diagnosis & configuration
	Support Remote Configuration Recovery
Protocol	TCP/IP on Internet / LAN / WAN
	Remote Access Software over 10/100M Network
Bandwidth Optimization	Bandwidth consumption on demand

Model	MC2-04	MC2-08	MC2-12	MC2-16
General Specification				
Audio Video Input	4	8	12	16
Format	NTSC / PAL Analogue Composite			
Display Output	SVGA Monitor (min 1024 x 768), Optional S-Video Output			
Audio Output	Speaker Line Out			
Compression	Encrypted Hardware H.264 Audio/Video			
Frame Rate	25 (PAL) / 30 (NTSC) frame per second per video channel			
Capturing Speed	120fps	240fps	360fps	480fps
Audio Recording	Synchronized Audio & Video Recording & Playback			
Recording Resolution	NTSC Each channel — D1, 4CIF 640x480, CIF 320x240			
	PAL Each channel — D1, 4CIF 704x576, CIF 352x288			
Live View	Real Time Live Display & Audio Monitoring			
Split Screen	Full Screen / 4 / 9 / 16 / Selective Group			
System Specification				
Optional Video Storage	-	-	-	-
Security	Encrypted Video File & Storage Media			
Recording Time	Average 100MB per hour @25fps per channel			
Built-in SATA Storage	Max. 1000GB	Max. 2500GB	Max. 3000GB	Max. 3000GB
Optional Evidence	（1）DVD-RW （2）Mobile SATA Hard Disk Rack			
USB Interface	（1）USB thumb disk （2）USB hard disk			
Optional GP Input	2	4	4	4
Optional GP Output	2	4	4	4
Post Alarm	Post Alarm Recording Buffer			
Alarm Notification	（1）Via TCP/IP （2）Optional SMS Alarm unit			
VMD	Multi-Channel & Multi-Zone, Day & Night Mode			
Recording Mode	Continuous, Timer Schedule, VMD & Alarm Activated			
Video Mask	4 Video Mask zones for privacy in banking application			
Playback View	Instant Video & Audio Playback—simple mouse operation			
Search / Restore	Per camera / date / time / location / triggered event			
Speed Dome	Via RS232 / RS485			
Remote Video	Web Video Browser / Single DVR Remote Client / Multi-DVR Remote Client			
System Management				
DVMS Support	Mascot Digital Video Management System			
Configuration Backup	Import / Export via USB thumb disk — easy maintenance			
Watchdog	Automatic Self Testing, Diagnosis, Recovery & Disk Maintenance			
System Disk On Chip	Support Hot Power On/Off			
Disk Tracker	Keeps checking the files & disk reading and writing			
Network Security	IP Filtering Support			
Recording Diagnosis	Built-in periodic snapshot capture ensure health recording, disk & video signal			
Health Checking	Centralized System Diagnosis , Remote Health Check Software			
Chassis	19" Rack Mounted Steel Chassis 420x460mm (WxD)			
	2U	3U	4U	4U

Mascot II   MC2-04

4-Channel Digital Audio Video Recorder

Dimension:
   a. 89 x 430 x 490 mm
   b. ~16kg

Mascot II   MC2-08 / 12 / 16

8 / 12 / 16-Channel Digital Audio Video Recorder

Dimension:
   a. 178 x 430 x 490 mm
   b. ~25kg

Accessories:
   a. 4 way video & audio connectors
   b. Mouse, keyboard & power cord

In additional to the standard Mascot II system, two storage options are provided for clients' demanding application.

- Mascot II (Internal RAID1 multiple hard disk mirroring)

- Mascot II (External RAID1/5 disk storage)

Internal RAID 1 multiple hard disk mirroring

▶ Max. 4 sets internal hard disks

▶ Max. 1000GB mirroring storage

▶ SATA HDD supported

▶ Optional 4 x SATA HDD Mobile Racks
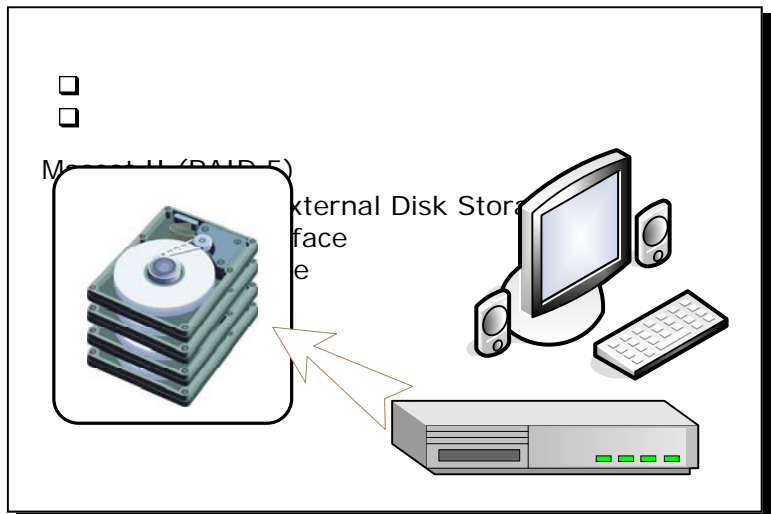
External RAID 1/5 disk storage

▶ RAID 0, 1, 5 supported

▶ 1TB, 1.6TB, 2TB options