

# Video & Optical Systems Limited

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## Entry Level DVRs

### VOS-04L, VOS-08R & VOS-16R

#### Features (VOS-04L)

- User friendly menu & operation
- Support up to 1440 x 900 VGA resolution
- Digital zoom during preview, Playback and PTZ mode
- Supports normal & event recording, NTP & email alarm functions
- Full channel playback function
- Disc-saver function
- CMS function
- Mobile view function



#### Features (VOS-08R & VOS-16R)

- H.264 compression format
- Integrated embedded RTOS & processor
- Video & audio acquisition & compression
- Multi PTZ control
- Alarm checking on a single board
- 8 or 16 Channels

#### Specifications

Model	VOS-04L
Operation System	Linux
Video Format	CIF/D1 Adjustable
Video Input	4Ch. Composite
Video Output	1 BNC, 1 VGA
Audio Input	2 Channels
Audio Output	1 BNC
Voice Talk	3.5 MIC Interface
Total Frames	Pal: 100fps/NTSC: 120fps
<b>Compression</b>	
Video	H.264
Audio	G.711A
<b>Record Resolution</b>	
CIF	352x288(PAL) 25fps / 352x240(NTSC) 30fps
D1	704x576(PAL) / 704x480(NTSC)
NC	D1, 704x576(PAL) / 704x480(NTSC)

<b>Preview Resolution</b>		
VGA	1024x768	
Playback	4Ch. Simultaneously	
Image Quality	6 Levels Optional	
Email Alarm	Yes	
Mirroring Function	Yes	
Mobile View	Supports (Windows Mobile, Symbian, iPhone, Blackberry, Android)	
Dual Stream	Yes	
HDD	1 SATA Interfaces (Each HDD Can Max Support 2000GB)	
Alarm Input	4	
Alarm Output	1	
Backup Interface	USB2.0/ Remote Backup/ USB DVD Backup	
Network Interface	RJ45 10M/100M Ethernet	
I/O Interface	RS485 for PTZ/ USB for Mouse/ IR	
Other Functions	Watchdog/ PPPOE/ DHCP/ DDNs/ Network Time Protocol/ BNC Sequence/ Spot Sequence/TV, Remove Jitter/ IE Browser and Client Manager	
Power Supplier	220±30% V, 50±3%Hz or 110±20% V, 60±3% Hz	
Power Consumption	8W (Without HDD)	
Working Temperature	-10 ~ +55	
Working Humidity	10%~90%	
Dimension	324mm x 245mm	
Gross Weight	4KG (Without Hard Disk)	
<b>Model</b>	<b>VOS-08R</b>	<b>VOS-16R</b>
<b>Video Parameters</b>		
Video Input	Composite Video Input PAL (25fps) NTSC (30 fps) (BNC, 1Vp-p, 75Ohm)	
Video Output	1 Channel composite video output BNC: (1Vp-p, 75ohm), NTSC: (525 Lines/Frames), PAL: (625 lines/frames) 1 VGA Output or DVI digital display mode output (Frequency: 60Hz, Resolution: 800 x 600, 1024 x 768, 1280 x 768, 1360 x 768)	
<b>Audio Parameters</b>		
Audio Input	8 Channels (BNC, 10K750hm, Vp-p=2.0V Lines)	16 Channels (BNC, 10K0hm, Vp-p=2.0V Lines)
Audio Output	1 Channel (BNC,10K750hm, Vp-p=2.0V Lines)	1 Channel (BNC,10K0hm, Vp-p=2.0V Lines)
Mic	Input (BNC, 10K, Vp-p=2.0V Lines in/ 50mV MIC in) Output (BNC, 10K750hm, Vp-p=2.0V Lines)	Input (BNC, 10K0hm, Vp-p=2.0V Lines in/ 50mV MIC in) Output (BNC, 10K0hm, Vp-p=2.0V Lines)
Video Compression	H.264 D1 PAL 25 fps/ NTCS 30 fps	
Operation System	Real Time Operation System (RTOS)	
HDD Interface	4 SATA Interfaces; Support 48 Bit LBA Working Mode	
<b>Alarm Interface</b>		
Alarm Input	8 Channels	Supports 16 Channels
Alarm Output	4 Channels alarm output (Delay opened circuit, relay output)	
I/O Interface	RS232/RS485 Interface supports network transparent channel connection and serial port control keyboard	
Operation Mode	Multi-functional IR remote control, PS2 Mouse, Serial port control keyboard	

Backup Interface	3 USB 2.0 Interfaces, supports data backup function
Network Port	RJ 45 10M/100M Ethernet Interface
Video Loop/Matrix	All models support video loop matrix
Power Supply	222-224V
Dimensions	400 (L) x 450 (W) x 100 (H) (mm)
<b>Compression Features</b>	
Support	PAL/NTSC
Video Compression	Supports VBR & CBR, image quality and compression rate adjustable
Audio Compression	Video and Audio channel is compressed separately. Audio Standard G.711. Video and Audio signal will compress into composite Bit Rate. Video & Audio streams are synchronous. The audio is optional
Dual Stream Encode	Primary stream is for local store Second stream for narrowband networking
Record Quality	6 Level record quality is provided for choice
<b>Network Functions</b>	
Support Protocol	TCP/IP (Support ARP, RARP, IP, TCP, PPPOE, DHCP) also supports PPPOE Auto Reconnect & DDNS function
Network-End Control	Complete control order (Client Manager & IE Browser can be used to control the DVR, such as setting the parameters, remote upgrade & maintenance)
Web Server Function	Supports DDNS, remote view, VOD and controlling the PTZ
PTZ Protocol	Can control PTZ, camera & wiper on both the DVR and the client
<b>Playback Functions</b>	
Local Search Playback	Accurate time, manual record, schedule record, motion detection record, alarm record
<b>Real Time Surveillance</b>	
Monitor Features	Supports local monitor & VGA/DVI display, supports video wall function, supports real time monitor & display
Display Mode	1Ch, 4Ch & 8Ch, Quick switching, support channel auto switch, channel switch & channel switch, time is adjustable according to need
<b>Storing &amp; Backup Function</b>	
Backup Interface	USB2.0 (on back & front), both support DVD record disk backup & both backup DVR & record files by remote client management
<b>Alarm Functions</b>	
Local Alarm	Video lost alarm, motion detection alarm, alarm sensor, no HDD alarm, no HDD alarm space, video abnormal alarm
Remote Alarm	Video lost alarm, motion detection alarm can be set to client manager. You can also enable the sensor alarm to record using the client manager
Video Lost Alarm	Motion detection alarm & sensor alarm can be transmitted to mobile phone, pager & fixed phone, through external equipment, within three seconds
Network Alarm	Network alarm linkage (uploading sensor alarm signal), support sound alarm through PC sound card, support client channel full screen when alarming
Video Motion Detections function	Each channel can set several areas
<b>Security Guarantee</b>	
Embedded Features	High Quality 32 Bit embedded microprocessor & embedded RTOS, which ensure the system's high effectiveness, reliability & stability
Log Functions	Complete log search, sensor record log, motion detection record log, remote log-in log, record parameter modification, update log, system boot-up log, & playback Log
Lock Functions	System lock, keystroke lock, password verification, multi-level user authorisation. The transmission of the user name & password is encrypted