



## Embedded Digital Video Management Systems (DVMS)



Veo 12004N

### Features

- Supports 1 to 4 channels of video
- Excellent image quality
- Real-time display
- MPEG-4 video compression
- Embedded Linux OS
- Remote Access
- PTZ Control
- 1 year parts & labor

### Application & Benefits

i3DVR's Veo Embedded DVMS diverges from our integrated systems in two key ways: First, it operates on a Linux based embedded operating system; second, the DVMS software is contained as read-only firmware on a chip. Both these features make the embedded system extremely stable, ensuring that data on the hard disk is secure.

What's more, Veo 12004N features an embedded processor and custom operation system that digitizes analog video signals and stores them on an internal HDD. Using MPEG4 compression technology, the system produces quality video data that can be backed up to DVD-RW or USB drive, or even accessed and downloaded over a local area network (LAN) for remote viewing. Veo supports a maximum of 4 channels of video. Each channel can be compressed independently, allowing you to simultaneously control your entire camera infrastructure.



Veo 12008N

### Features

- 8 channel digital video recorder
- MPEG-4 compression
- Up to 480 images per second (IPS) recording rate
- Support for continuous, motion, alarm, and scheduled recording
- Pre- and post-alarm recording
- Variable playback speed (x1, x2, x4, x8, x16, x32, x64)
- Audio playback will synchronize with video
- 1 year parts & labor

### Application & Benefits

The Veo 12008N is an affordable entry-level digital surveillance video recorder running on a popular embedded operating system. The system serves a niche market which requires 8 camera inputs enabling fast frame rate recording, powerful playback, searching, and exporting capabilities. It's a powerful replacement for the traditional VCR system which will revolutionize the way you secure your business assets.

Video can be viewed remotely or on a local area network with audio MPEG4 video compression improves image viewing remotely and enables viewing multiple sites as well, a feature greatly in demand on the market. Managers can choose between the traditional composite monitor or a VGA to view live video, which means that existing equipment can still be used. Local users can back up video via CD/DVD or with a USB thumb drive.

The front panel of the system uses buttons allowing simple navigation through Veo's menus. The Veo 12008N is built with flexibility and adaptability in mind. It assures protection against anti-viruses and prevents video alterations, a guaranteed high performance system that is made for the professional. A built-in S.M.A.R.T. alarm indicator will auto-detect and monitor your hard drive's condition as well to give you peace of mind. Managers can also hide live video and playback while still being in record mode. For franchisers with multiple sites, a standardized configuration setup can be saved to a USB thumb drive and transferred to various systems in the field.



Veo 12016N

### Features

- 16 channel digital video recorder
- MPEG-4 compression
- Up to 480 images per second (IPS) recording rate
- Support for continuous, motion, alarm, and scheduled recording
- Pre- and post-alarm recording
- Variable playback speed (x1, x2, x4, x8, x16, x32, x64)
- Audio playback will synchronize with video
- 1 year parts & labor

### Application & Benefits

The Veo 12016N is an affordable entry-level digital surveillance video recorder running on a popular embedded operating system. The system serves a niche market which requires 8 camera inputs enabling fast frame rate recording, powerful playback, searching, and exporting capabilities. It's a powerful replacement for the traditional VCR system which will revolutionize the way you secure your business assets.

Video can be viewed remotely or on a local area network with audio MPEG4 video compression improves image viewing remotely and enables viewing multiple sites as well, a feature greatly in demand on the market. Managers can choose between the traditional composite monitor or a VGA to view live video, which means that existing equipment can still be used. Local users can back up video via CD/DVD or with a USB thumb drive.

The front panel of the system uses buttons allowing simple navigation through Veo's menus. The Veo 12016N is built with flexibility and adaptability in mind. It assures protection against anti-viruses and prevents video alterations, a guaranteed high performance system that is made for the professional. A built-in S.M.A.R.T. alarm indicator will auto-detect and monitor your hard drive's condition as well to give you peace of mind. Managers can also hide live video and playback while still being in record mode. For franchisers with multiple sites, a standardized configuration setup can be saved to a USB thumb drive and transferred to various systems in the field.

Product	Embedded DVMS	Embedded DVMS	Embedded DVMS
i3 Part No.	Ve012004N	Ve012008N	Ve012016N
Specification			
Triplex Operation	Simultaneous recording, playback & network transfer	Simultaneous recording, playback & network transfer	Simultaneous recording, playback & network transfer
Backup Device	Built-in optical drive and 2 front USB port	Built-in optical drive and 2 front USB port	Built-in optical drive and 2 front USB port
Storage Capacity	Maximum 2 x SATA HDD (2TB)	Maximum 2 x SATA HDD (2TB)	Maximum 2 x SATA HDD (2TB)
System Operation	Front panel buttons	Front panel buttons	Front panel buttons
Mouse Supported	Yes (USB)	yes (USB)	yes (USB)
Remote Software	Ve0 12008/16 Remote	Ve0 12008/16 Remote	Ve0 12008/16 Remote
Archive Format	AVI File Format (via Server/Remote), JPG on USB memory stick	JPG on USB memory stick	JPG on USB memory stick
Standard Accessories	12VDC adapter, AC cable, remote control, and AAA battery	12VDC adapter, AC cable, remote control, and AAA battery	12VDC adapter, AC cable, remote control, and AAA battery
Connectivity			
Network Support Type	LAN (TCP/IP Ethernet, RJ45), DHCP, Dynamic IP, or DDNS (Automatic linkage to DDNS server (dvrlink.net) by Mac. Address)	LAN (TCP/IP Ethernet, RJ45), DHCP, Dynamic IP, or DDNS (Automatic linkage to DDNS server (dvrlink.net) by Mac. Address)	LAN (TCP/IP Ethernet, RJ45), DHCP, Dynamic IP, or DDNS (Automatic linkage to DDNS server (dvrlink.net) by Mac. Address)
Net Client & Web Server Port	programmable by user	programmable by user	programmable by user
E-mail Notification	E-mails to specific users to notify events such as alarm, motion, video loss, or HDD Failure	E-mails to specific users to notify events such as alarm, motion, video loss, or HDD Failure	E-mails to specific users to notify events such as alarm, motion, video loss, or HDD Failure
System configuration	full setup configuration over network	full setup configuration over network	full setup configuration over network
Bandwidth	limitable by user	limitable by user	limitable by user
Remote Software Notification	system on & off , alarm, video in & loss, or recording status	system on & off , alarm, video in & loss, or recording status	system on & off , alarm, video in & loss, or recording status
System control	mouse or remote control	mouse or remote control	mouse or remote control
RS-485	PTZ Camera Control	PTZ & CCTV Keyboard Interface	PTZ & CCTV Keyboard Interface
Two-Way Audio	communication with remote client software	communication with remote client software	communication with remote client software
Watch-Dog	auto-recovery after power failure (self diagnostic)	auto-recovery after power failure (self diagnostic)	auto-recovery after power failure (self diagnostic)
USB Port	USB 2.0 1 port (front)	USB 2.0 1 port (front)	USB 2.0 1 port (front)
Alarm Input	4, NC or NO, software selectable	4, NC or NO, software selectable	4, NC or NO, software selectable
Alarm Output	NC / NO (Optional)	NC / NO (Optional)	NC / NO (Optional)
Video			
Live Display Speed	120 fps (NTSC) / 100 fps (PAL)	480 / 400 fps	480 / 400 fps
Video Input	4 x 1Vp-p, 750, BNC, auto terminating loop out	8CH (BNC), 1Vp-p,750	16CH (BNC), 1Up-p,750
Video Outputs	Main monitor: 1 VGA (800 X 600 @ 60Hz), Sub monitor: 1 Composite (BNC), Spot-out: 1 Analog (BNC)	Main monitor: 1 VGA (800 X 600 @ 60Hz), Sub monitor: 1 Composite (BNC), Spot-out: 1 Analog (BNC)	Main monitor: 1 VGA (800 X 600 @ 60Hz), Sub monitor: 1 Composite (BNC), Spot-out: 1 Analog (BNC)
Screen Division	Live mode: 1,4, / Playback mode: 1,4	Live mode: 1,4,6,8,9 / Playback mode: 1,4,8	Live mode: 1,4,6,8,9,13,16 / Playback mode: 1,4,8,16
Recording Schedule	hour, day, recording modes, alarm, per channel, or all channel	hour, day, recording modes, alarm, per channel, or all channel	hour, day, recording modes, alarm, per channel, or all channel
Recording Speed	NTSC: 352 x 240 = 120 fps 704 x 240 = 60 fps 704 x 480 = 30 fps, PAL: 352 x 288 = 100 fps 704 x 288 = 50 fps 704 x 576 = 25 fps	352x240/288 - 120 / 100 fps (NTSC / PAL), 704x240/288 - 60 / 50 fps (NTSC / PAL), 704x480/576 - 30 / 25 fps (NTSC / PAL)	352x240/288 - 120 / 100 fps (NTSC / PAL), 704x240/288 - 60 / 50 fps (NTSC / PAL), 704x480/576 - 30 / 25 fps (NTSC / PAL)
Video Compression	Modified Premium MPEG-4 (DSP Based)	Modified Premium MPEG-4 (DSP Based)	Modified Premium MPEG-4 (DSP Based)
Recording Quality Level	low / standard / high / highest	low / standard / high / highest	low / standard / high / highest
Panic Record	overrides all other recording settings to provide the best quality recording	overrides all other recording settings to provide the best quality recording	overrides all other recording settings to provide the best quality recording
Resolution Setting	1CIF/2CIF/D1 per camera	1CIF/2CIF/D1 per camera	1CIF/2CIF/D1 per camera
Post-alarm Recording	maximum of 5 seconds and 150fps in NTSC(125fps in PAL)	maximum of 5 seconds and 150fps in NTSC(125fps in PAL)	maximum of 5 seconds and 150fps in NTSC(125fps in PAL)
Pre-alarm Recording	maximum of 180 seconds for 5400fps in NTSC (4500fps in PAL)	maximum of 180 seconds for 5400fps in NTSC (4500fps in PAL)	maximum of 180 seconds for 5400fps in NTSC (4500fps in PAL)
Selectable the Monitor	composite or VGA monitor	composite or VGA monitor	composite or VGA monitor
Environmental			
Operating Temperature	0° to 35°C (32° to 95°F)	5 ~ 40% (41-104°F) - 20 ~ 80% RH	5 ~ 40% (41-104°F) - 20 ~ 80% RH
Power Adaptor	12VDC, 5A, 100 ~ 240VAC, 50/60Hz	DC 12V & 5A, 50 ~ 60Hz	DC 12V & 5A, 50 ~ 60Hz
Audio			
Audio Input	4 line in (RCA), CODEC : G.711 (64Kbps)	2 line in (RCA), CODEC : G.711 (64Kbps)	2 line in (RCA), CODEC : G.711 (64Kbps)
Audio Output	1 line out (RCA), CODEC : G.711 (64Kbps)	1 line out (RCA), CODEC : G.711 (64Kbps)	1 line out (RCA), CODEC : G.711 (64Kbps)
Certifications	CE & FCC & MIC & WEEE, RoHS	CE & FCC & MIC & WEEE, RoHS	CE & FCC & MIC & WEEE, RoHS