

VDR-700 Series Triple Streaming Real Time H.264 Digital Recorder



The VDR-700 series is ideal for CCTV users who require an easy to use high-quality standalone 4 channel, 8-channel or 16-channel digital video recorder with the benefit of additional remote PC access via a network/Internet; live monitoring and remote playback are available by web browser. Incorporating high-quality H.264 video and audio encoding and compression technology, these feature-rich DVRs are designed for use with industry standard composite video output CCTV cameras using BNC connectors.

The DVRs are operated and controlled by simple front panel controls. All CCTV video recording takes place on the unit's hard disk drive. Backup can be to a DVD-RW, through the network, or from the USB port to a memory stick. Multiple DVRs can be used for greater camera coverage. The VDR is compatible with the VDR4-DVC desk-top control keypad.

A number of models are available to fit almost any requirement. 4-, 8- and 16-channel units are offered with 500, 1000 or 2000 GB hard drives. Refer to the Tables for specific models and details on recording speeds. The models are NTSC/PAL compatible.

Table 1: Model Descriptions

Model Number	Description
VDR-704C-500	4-channel, 500 GB hard drive, DVD/RW, PTZ control, NTSC/PAL
VDR-708C-500	8-channel, 500 GB hard drive DVD/RW, PTZ control, NTSC/PAL
VDR-708C-1000	8-channel, 1000 GB hard drive DVD/RW, PTZ control, NTSC/PAL
VDR-716C-500	16-channel, 500 GB hard drive DVD/RW, PTZ control, NTSC/PAL
VDR-716C-1000	16-channel, 1000 GB hard drive DVD/RW, PTZ control, NTSC/PAL
VDR-716C-2000	16-channel, 2000 GB hard drive DVD/RW, PTZ control, NTSC/PAL

- H.264 single codec semi-triple streaming + M-JPEG
- Real time recording and playback
- Matrix function
- CMS up to 128 channels
- Audio recording available (16-channel max)
- E-map function
- FTP uploading function
- Multi-level user management
- Recording status monitoring
- Keyboard controller support
- Mobile viewer connection
- Smart back-up
- System log data for all users activities

Multiple recording modes are offered, schedule, event (motion detection, sensor), manual or continuous. There are 4 levels of recording quality, normal, enhanced, fine or superfine. All units have Quadplex simultaneous record, playback, backup and network streaming. The units allow multichannel record, playback and backup.

The DVRs provide a convenient search by alarm, time or date. The JOG/Shuttle dial provides quick and responsive playback and field-by-field viewing. Motion detection can be programmed for sensitivity and specific area. Sensors (alarms) can be programmed, N.O./N.C. Still image recording and playback and search functions, including calendar, are provided. Pre-alarm and post-alarm recording functions are available for recording before and after an alarm occur.

Vicon strongly recommends the use of uninterruptible power supply systems (UPS) to prevent voltage fluctuations that can affect operation, cause video loss and damage to the equipment.

Table 2: Recording Speeds (NTSC/PAL)

Resolution	VDR-704	VDR-708	VDR-716
CIF	120/100 fps	240/200 fps	480/400 fps
Half D1	120/100 fps	240/200 fps	240/200 fps
Full D1	120/100 fps	120/100 fps	120/100 fps



VDR4-DVC optional keypad

	VDR-704	VDR-708	VDR-716
Image System	NTSC/PAL selectable		
Multi-Tasking	Quadplex		
Video Inputs	4 ch composite, 4 ch loop through BNC	8 ch composite, 8 ch loop through BNC	16 ch composite, 16 ch loop through BNC
Video Outputs	1 ch composite BNC, 1 ch spot (single), 1 ch VGA		
Video Compression	H.264		
Recording Resolution	720x480, 720x240, 360x240 (NTSC)/ 720x576, 720x288, 360x288 (PAL)		
Recording Quality	4 levels (Normal, Enhanced, Fine, Superfine)		
Max. Display Speed	120 fps (NTSC); 100 fps (PAL)	240 fps (NTSC); 200 fps (PAL)	480 fps (NTSC); 400 fps (PAL)
Time-Lapse Recording Interval (fps)	1, 2, 3, 4, 5, 6, 8, 10, 15, 30 (NTSC, 10 steps) 1, 2, 3, 4, 5, 7, 9, 13, 20, 25 (PAL, 10 steps)		
Recording Mode	Schedule, Event (sensor, motion detection), Manual, Continuous, Continuous+Event		
Playback Search	Calendar, Event (sensor, motion detection)		
Playback Speed	x1, x2, x4, x8, x16, x64, x128, filed by field (forward and backward)		
Slow Motion	x1/4, x1/2 (forward and backward)		
Sensor Input	4 (N.O./N.C. selectable)	8 (N.O./N.C. selectable)	16 (N.O./N.C. selectable)
Alarm Output (Relay)	1 relay (N.O./N.C.), 4 TTL		
Audio In/Out	4 ch In/4 ch Out	4 ch In (8 ch option)/4 ch Out	4 ch In (16 ch option)/4 ch Out
Network	10/100Base-T (static, DHCP, PPPoE, E-mail), DDNS server available, dual codec		
Motion Detection	22x15 (NTSC)/22x18 (PAL), 8 levels of sensitivity		
JOG/Shuttle	Playback/field by field viewing		
Hard Disk	Max 2 each		
Backup	USB (ver 2.0), DVD-RW, network		
Keyboard Control	Yes (except for Matrix key)	Yes	Yes
Daisy Chain Out	No	Yes	Yes
Watermarking	Still image backup		
PTZ Control	RS-485		
Serial Port	RS-232		
System Log	Video Loss, Power On/Off, HDD Full, Rec Warning, Rec Fail, Menu Called, Reset HDD Format, Reset S/W Upgrade, E-Mail Fail		
Languages	English, Korean, Japanese, French, Spanish, German, Polish, Italian, Russian, Slovak, Turkish, Czech, Norwegian, Estonian, Danish		
Software Upgrade	Network, USB memory stick, DVD-RW		
Password Function	Power OFF, MENU, Record OFF, key lock		
Power Source	100-240 VAC (free voltage), 50/60 Hz, 70 W		
Dimensions	W: 17.0 in. (433 mm); H: 3.5 in. (88 mm); D: 15.2 in. (385 mm)		
Weight	15.4 lb (7 kg)		
Operating Temperature	41-104° F (5-40° C)		
Certifications	FCC Class A, CE, UL 2044		

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