



## H.264 Digital Recording System



H.264 4



H.264 9



H.264 16



### WHY USE A VIOLA H.264 COMPRESSION DVR FROM DigitalCCTV ?

The Viola H.264 DVR series provides an efficient and economical storage of CCTV footage thanks to the compression and decoding system. Our DVR coding system is the result of extensive product and software development and testing to ensure reliable and trustworthy operation.

#### USER-FRIENDLY

A user-friendly GUI gives easy access to all of the Viola H.264 DVR functions.

Every Viola H.264 is easy to install, program and operate. The Viola DVR series delivers simple, reliable performance.

#### RECORDING FRAME RATES

Individual recording frame rates can be applied to each channel of a Viola H.264 DVR. For example, some cameras can be set to record at 3 FPS while others can be set to record at 6 FPS, which maximises efficient use of the Hard Disk Drive.

#### RECORDING QUALITY

Resolutions of 360 x 288 (CIF), 720 x 288 (2CIF/Half D1) or 720 x 576 (4CIF/D1) can be configured for maximum recording quality, high quality standard settings or to increase the amount of recording time on the Hard Disk Drive.

#### RECORDING PLAYBACK

The Viola H.264 DVR can playback all channels simultaneously. This allows a user to review footage using all cameras to see an event from every angle.

#### ALARM FUNCTION

Channels can be configured to record at a low frame rate as a standard setting until an event triggered by an alarm activation. The alarm trigger can increase the frame rate to maximise the quality of footage.

The Viola H.264 DVR uses its own technology to make an ultra-fast change between recording rates which minimizes the loss of frames during the transition. This allows the user to get the most out of the quality of recording and hard disk storage.

#### REMOTE VIEWING

All Viola H.264 DVR units can be viewed via a mobile phone with a web browser. There is no license or connection fee other than that stated by your service provider. The units can be programmed to give a manageable resolution for mobile phone operation without interference to the recording resolution of the DVR. Please note that PTZ function is not available with this facility.

#### OTHER FEATURES

- Up to Real-Time live display and record frame rates
- Two-Way Audio
- Remote Access via PC
- Email Alarm Notification
- Fully Networkable
- RS-232/RS-485 for PTZ, POS and GPS Support
- USB for back-up and configuration
- eSATA connector for HDD extension (excluding 4 ch)
- Keypad, I/R Remote Control and Mouse Operation
- Watermark
- Multi-language GUI
- Open-system architecture for ease of access via network



#### 4 CHANNEL



- VIO-4/250 with 250GB HD
- VIO-4/500 with 500GB HD
- VIO-4/1000 with 1000GB HD

#### 9 CHANNEL



- VIO-9/250 with 250GB HD
- VIO-9/500 with 500GB HD
- VIO-9/1000 with 1000GB HD
- VIO-9/1500 with 1500GB HD
- VIO-9/2000 with 2000GB HD

#### 16 CHANNEL



- VIO-16/250 with 250GB HD
- VIO-16/500 with 500GB HD
- VIO-16/1000 with 1000GB HD
- VIO-16/1500 with 1500GB HD
- VIO-16/2000 with 2000GB HD



FULL SIMULTANEOUS CAMERA PLAYBACK

		4 CHANNEL	9 CHANNEL	16 CHANNEL
SYSTEM	O.S.	Embedded Linux 2.6		
	Multiplex	Sixfold operation - simultaneous recording, live playback, back-up, control, & remote access		
	Processor	Multiple		
	Certification	FCC, CE, LVDS, etc.		
VIDEO	Format	PAL/CCIR		
	Input	4-CH, BNC, 1Vp-p/75ohm	9-CH, BNC, 1Vp-p/75ohm	16-CH, BNC, 1Vp-p/75ohm
	Main monitor	BNC x 1, S-video x 1, 1 Vp-p/75ohm VGA D-SUB 15-pin connector		
	Call monitor	BNC x 1, 1Vp-p/75ohm		
	Loss detection	Yes		
	Motion detection	Yes, with configurable detection area & sensitivity		
AUDIO	Input	2 RCA-jack connectors, line-in level (100mV -2Vrms)	4 RCA-jack connectors, line-in level (100mV -2Vrms)	
	Output	2 RCA-jack connectors, line-out level (up to 2 Vrms)	1 RCA-jack connectors, line-in level (100mV -2Vrms)	
RECORD	Compression	H.264 Baseline Profile Audio: ADPCM		
	Frame rate (IPS) & Resolution	25 / 720 x 576, 50 / 720 x 288, 100 / 360 x 288	50 / 720 x 576, 100 / 720 x 288, 200 / 360 x 288	
	Watermark	Yes		
	Mode	Manual/Schedule/Alarm/Motion		
	Pre-record time	0 - 10 seconds	0 - 60 seconds	
	Post-record time	0 - 60 minutes		
DISPLAY	Resolution	PAL - 720 x 576		
	Split windows	1/4	1/4/9/16 split-window & SEQ mode for I.E. and HEM Dynamic electronics maps for HEM	1/4/7/9/10/13/16
	Frame rate	Up to 30/25 IPS per display window		
	Digital Zoom	X2, X4		
PLAYBACK	Sequential switch	User adjustable		
	Frame rate (IPS) & Resolution	PAL - 25 / 720 x 576, 50 / 720 x 288, 100 / 360 x 288		
	Search	Smart search, Date/time, Camera, Alarm, & Motion		
	Operation	Play, Fast Forward, Backward, Pause, Stop, etc. Remote I.E. and HEM can also Print		
STORAGE	HDD	1 set of 3.5" SATA HDDs, up to 1 TB for each HDD Failure detection & privacy law supported	2 set of 3.5" SATA HDDs, up to 1TB for each HDD Failure detection & privacy law supported	
	HDD Extension	N/A	1 eSATA connector	
	Partitions	Configurable alarm partition size Configurable auto-overwrite or not		
	Back-up	1 USB 2.0 port for USB 2.0 disk drives, DVD+RW, DVD+R, DVD-R, card readers, HDD, etc. DVD models: DVD+RW, DVD+R, DVD-R Self playback for back-up files		
ALARM	Input	4 contact or TTL/CMOS signal, polarity selectable	16 contact or TTL/CMOS signal, polarity selectable	
	Output	1 Normally Open, 1 Normally Closed relay output		
	Buzzer	Yes		
	Trigger	Sensor input, Video loss, & Motion		
	Event log	Yes		
NETWORK	Ethernet	1 RJ-45 10/100BaseT Ethernet connector		
	Web	Remote set-up, monitoring, back-up, alarm notification, & remote software upgrade Support Windows 7, Windows Vista, Windows XP, and Windows 2000 1 IE./Firefox for multiple DVRs Configurable HTTP/Control/Data port		
	E-mail	Alarm notification to stationary or mobile devices		
	FTP	Alarm video/audio file storage		
	Video	1/4/9/16 split-window & SEQ mode for I.E. and HEM Dynamic electronics maps for HEM		
	Audio	Bidirectional		
	Protocol	TCP/IP, HTTP, PPPoE, DHCP, DDNS, FTP, TSP		
	Remote users	Up to 6 users simultaneously	Up to 8 users simultaneously	
	Bandwidth	TCP/IP type dynamic sliding window control		
	Remote stations	PC, mobile phone, or PDA		
CONTROL / POS / GPS	I/R	1 I/R remote controller		
	RS-232	1 D-type female connector for PTZ, POS, or GPS		
	RS-485/422	2-pin for PTZ control		
SET-UP	Local	On-screen set-up via mouse, keypad, I/R remote controller		
	Remote	Set-up & upload via Windows application software		
	Multi-lingual	Yes		
RELIABILITY	System recovery	Auto power on after power loss recovery		
	Watch Dog Timer	Yes		
	Timer	Built-in real time clock		
	Security	Multi-level password (3 levels, up to 18 accounts) protection with authentication key for remote access		
WEIGHTS & MEASURES	Dimension	430(W) x 330(D) x 66(H)mm		
	Weight	4.0 KG (without HDD)		
POWER	Source	+12VDC		
	Consumption	45 W Max. (with 2 HDDs)	70W Max. (with 3 HDDs)	
OPERATING TEMPERATURE	0°C~+45°C			