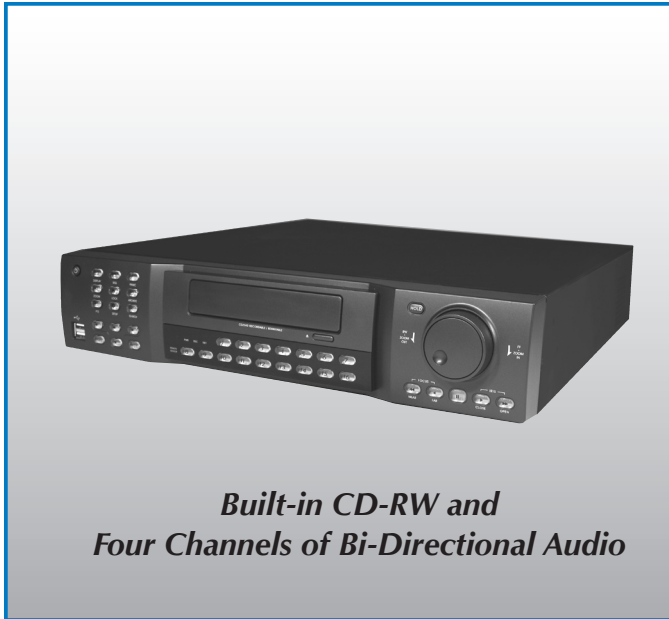


# Costar CRV Series

## V Series Digital Video Recorder with Four Channels of Bi-Directional Audio



***Three Times better compression  
than most of the competition!***

The V Series Digital Video Recorder is a 4, 8 and 16 channel DVR with a reliable Linux-embedded operating system, triplex operation and advanced MPEG4 compression technology. The V Series has four channels of two-way audio, built-in CD-RW, USB port and has the capability of viewing live video without remote software (including Microsoft internet Explorer). Remote monitoring and recording over IP networks allow central control of any camera as well as multi-user viewing and monitoring.

### Product Features

- Remote access via client software or web browser
- Three password protected user levels
- Bi-Directional audio on four channels
- Built-in CD-RW
- Non-PC Platform, Reliable Linux-embedded operating system
- 120 images/sec
- Triplex operation
- Up to 3 internal hard drives (2 TB)
- Ethernet (10/100 Base-T), TCP/IP
- Record time table for easy searching, storage or internet transmission
- User friendly GUI
- Multiple user network viewing and playback – up to four simultaneously
- Hardware watchdog timer function
- Network remote support allows system Changes to be made remotely without a site visit
- Digital zoom in both live and playback mode
- Motion detection
- Logs up to 1,000,000 user events, menu changes and remote access connects
- Four spot monitor outputs with 16 channel, two spot outputs with 8 channel
- Pre and post event alarm recording
- Supports popular RS-485 PTZ protocol

# CRV Series Specifications

## Power

Power Source 100-240 VAC, 2 Amp 60/50 Hz

## General Information

Video In	
CR4000V	4 Channel w/looping output
CR8000V	8 Channel w/looping output
CR1600V	16 Channel w/looping output
Audio Input/Output	4 In, 1 Out bi-directional (RCA)
Monitor Out	Simultaneous XVGA, composite or SVHS output
Display Speed	120 images/second
Screen Division	1, 4, 8, 9, 16
Recording Speed	120 ips @ 352x240 60 ips @ 704x240 30 ips @ 704x480
Recording Resolution	352x240, 704x240, 704x480
Recording Quality	Very High, High, Standard, Low
Compression	MPEG4
Data Size	3-5 KB (352x240) 5-10 KB (704x240)
Transfer Rate	LAN: Max. 30 fps Throttle: Transfer speed 56K to 819K, 8 Levels
Storage Structure	AVI, JPG, BMP
Security	Chained fingerprint encryption
Recording Schedule	Scheduled by camera, date & time
Motion Detection	Video motion detection
Remote Function	Remote playback, remote real time monitoring
Alarm Input/Output	4, 8, 16 input/4, 8, 16 output
Alarm Reset Input	1 TTL

Multi-tasking

Searching

Book Mark

Back-Up

On Screen Display

Special Searching

Triplex – Record, Playback, Monitor, Search, Back-up  
Recording table provided (time/date), Smart search  
Provided  
Manual back-up to USB, Ethernet, CD-RW  
Cam ID, location, status, mode display, time, date  
Multi-screen playback, Smart search

## Mechanical

Operating Temp.

Dimensions

Weight

41°F to 104°F (5°C to 40°C)  
429(W) x 489(D) x 89(H) mm  
16.9(W) x 19.25(D) x 3.5(H) in  
28 lbs. (12.7 Kg)

## Recommended Monitors

CMC1400N	14" high-performance multi-standard, color monitor with OSD
CMC2100N	21" high-performance multi-standard, color monitor with OSD
CMC17LCD	17" color high-performance LCD monitor, black chassis
CMC17LCDW	17" color high-performance LCD monitor, white chassis
CMC19LCD	19" color high-performance LCD monitor, black chassis
CMC19LCDW	19" color high-performance LCD monitor, white chassis

Design and specifications subject to change without notice. Conversion: 1" = 25.4mm Measurement conversions are approximate.



Model	Channel
CR4000V-XXXCD*	4 Channel, built-in CDRW
CR8000V-XXXCD*	8 Channel, built-in CDRW
CR1600V-XXXCD*	16 Channel, built-in CDRW

\*Hard drive options: 160, 250, 400, 500 GB up to 2 TB

## Recording quality picture mode - based on 80 gb hard drive

IMAGE COMPRESSION	REC RATE	LOW		STANDARD (VHS)		HIGH (S-VHS)		V-HIGH	
		2kb		3kb		7kb		18kb	
(sec/image)	(image/sec)	Hours	Days	Hours	Days	Hours	Days	Hours	Days
0.02	60	185	7.7	124	5.1	53	2.2	21	0.9
0.03	30	370	15.4	247	10.3	106	4.4	41	1.7
0.05	20	556	23.1	370	15.4	159	6.6	62	2.6
0.10	10	1,111	46.3	741	31	317	13.2	123	5.1
1	1	11,111	463.0	7,407	309	3,175	132.3	1,235	51.4
30	0.03	370,370	15,432	246,914	10,288	105,820	4,409.2	41,152	1,715

**STORAGE CALCULATION:** To select the correct model, you need to determine the storage requirements for the application. To calculate the storage requirement use the following formula as illustrated below.

Image Size	Images		Number		Record Hours		HDD Storage		Required	
(Kb)	X	Per Second	X	of Cameras	X	Per Day	X	in Days	X	Storage (GB)
3	X	1	X	16	X	24	X	14	X	0.0036 = 58.06

Storage calculation is based on VHS equivalent quality, actual file size and recording duration may vary.

Standard Quality is equivalent to VHS quality. Low Quality – 2 Kb, Standard – 3 Kb VHS, High – 7 Kb SVHS, Very High – 18 kb

Form CR4000V-9/06

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