



Costar Digital Video PC based recorders offer the latest in H.264 hardware compression technology using the new proprietary ISP1000 chip set. The first encoder chip developed exclusively for security digital video recording which assures the highest level of video quality with the smallest possible file sizes. The Costar PC series offers advanced video analytics features which can be used to enhance monitoring efficiency or to collect analyzed data. User-viewing over IP networks allows central control of any number of cameras as well as multi-viewing and monitoring. Easy installation and operation allows this DVR to integrate quickly and seamlessly into an existing CCTV system.

- Utilizes popular **RAS+** remote administration software
- 16 or 32 channel video (looping outputs CR416R)
- Max 480 images per second recording (320x240 CIF resolution)
- Pentaplex (monitoring, recording, playback, backup & remote access at the same time)
- Record time table for easy searching
- Proprietary data base structure for added stability and quick searching
- Anti-editing function using 128-bit chained fingerprint encryption
- Storage expansion via eSATA port

Video Analytics Include:

- Object Counting, Tripwire, Left/Removed Object Detection, Loitering Detection, Face Detection
- Rule-based Video Analytics
- Easy rule creation using drawing tools
- Up to 4 channels can be programmed for analytics
- Graphical results displayed on Live and Playback screen
- Multiple event configurable (ex. combining tripwire and loitering detection)
- Automatic count reset (object counting)
- Reactions can be tied to PTZ preset, camera record speed, alarms, or image save options

CR416R / CR432R Specifications

Models

CR416R-XXXD*	16- Channel DVR, 480ips recording
CR432R-XXXD	32- Channel DVR 960ips recording
*Hard Drive Sizes	*Hard Drive can be upgraded in 500GB increments CR416R(XXX)D (500), (1000), (1500), (2000), (3000)

Inputs / Outputs

Video Input	16 or 32 video inputs
Video Looping Outputs	16 video outputs (16ch only)
Audio In/ Out	
CR416R	16 in / 1 out
CR432R	32 in / 1 out
PTZ Dome Control	RS485
Alarm In/Out	
CR416R	16 in / 1 relay out / 16 TTL out
CR432R	32 in / 2 relay out / 32 TTL out
Internal Hard Drive Archiving	Up to 6 HDD (SATA) DVDRW, USB Flash Drive, USB HDD

Connectors

Video Input	16 or 32 BNC
Monitor Outputs	1 VGA, 8 BNC Spots, 2 Multi view spots
Audio in	RCA Microphone in
Alarms	Terminal Block
Ethernet Port	RJ-45
RS232	DB9 (P)
USB Port	8 USB connectors

Recording & Playback

Compression	H.264
Record Rate	480ips (CR416R) 960ips (CR423R)
Record Resolution	640X480, 640X240, 320X240, 160X120

System

Operation System	Embedded Windows XP
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Electrical

Power	100 to 240 VAC, 2.0-5.5A, 60/50Hz
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Analytics, Video

Maximum Channels	4
Max. Rules per Channel	4
Features	Object counting, Tripwire, Left/removed object detection, loitering detection, face detection

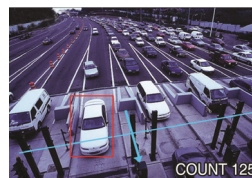
Mechanical

Dimensions	17.3"(W) x 7.1"(H) x19.5"(D)(590mmx180mmx496mm)
Unit Weight	36.8lbs (16.7Kg)
Shipping Dimensions	23.2" x 13.4" x 30.7"
Shipping Weight	42.2lbs (19.2 Kg)
Approvals	FCC, CE, UL

Features



Advanced Remote RAS Plus and IPHONE App



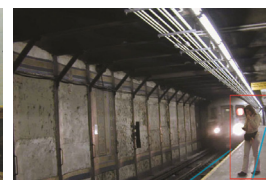
Object Counting



Face Detection



Left/Removed Object Detection



Tripwire



Loitering Detection

Design and specifications subject to change with out notice. Conversions: 1" = 25.4mm Measurement conversions are approximate.