



Feature-rich 16 Channel H.264 DVR Security

w/ iPhone & BlackBerry Access and 8 Hi-Res Indoor/Outdoor Night Vision Surveillance Cameras

COMPLETE SYSTEM



**iPhone & BlackBerry
Compatible**

**Records Over
8 Years**

**Cutting Edge H.264
Compression**



Model #:
CV501-16CH-007
www.svat.com

FEATURES

iPhone & BlackBerry Compatible¹

Access live video footage directly from your iPhone or BlackBerry. This DVR allows you to utilize 3G technology, which is specifically designed to transmit your video and audio at higher speeds. Your DVR can also be set up to email your hand-held whenever specific activity occurs, such as motion detection.



Cutting Edge H.264 Compression

The CV501-16CH-007 utilizes H.264 compression—the latest and most advanced compression level available for a DVR system. You will see an amazing picture but save almost 50% on storage space versus DVRs with MPEG-4 compression! H.264 maximizes your hard drive space.



24/7 Lifetime Live Customer Support

Assistance is available whenever you need it. Simply visit www.svat.com for video networking guides, simple tips on how to protect your property, and instructional videos on topics such as camera placement. Our customer support team can be reached by phone 24/7, or by email and live web chat services so that you will always have access to an expert.

8 Professional Grade Weatherproof Cameras

Eight high resolution color cameras provide you with a clear and consistent picture at 420 TV lines of resolution. They allow you to better distinguish facial features, which can help in the positive identification of individuals. The cameras can be used indoors and outdoors. Each one is built with professional grade aluminum housing and a sunshade to help prevent glare, deterioration and rusting.⁵

Multiple Easy Backup Options

You have several ways to backup your important video footage. A built-in USB port gives you the option of backing up and transferring your video footage with a USB flash drive or external USB hard drive.⁶ You can connect an external CD/DVD writer and burn your footage to disk. Another great option is the ability to send your video footage to an FTP site. Your video footage then becomes portable for easy viewing and archiving on any PC.

Advanced Motion Activated Recording

You have the option to record video only when motion is detected. Finding important video footage using the playback feature is easy, and will also save you time and conserve hard drive space. You can even set individual cameras to detect motion while the others continuously record. Advanced motion detection settings ensure that false alarms are not triggered—the easy motion detection “mask” allows you to block out areas with constant movement, such as roads or blowing trees so that only suspicious activity is recorded.

Included Mouse and Remote

Navigate the onscreen menu with ease using the USB mouse and IR remote control.

Record Over 8 Years of Video Footage

The 500GB hard drive can hold over 8 years of continuous video² and is optimized for 24/7 surveillance. We only use hard drives that are specifically designed for high capacity writing, which ensures long product life and accurate video data storage. Your DVR will alert you when your memory space is full so that you can overwrite your old video, stop the unit from recording, or backup and transfer your video footage.



View Video Online with No Service Fees³ (Supports DDNS)

Regardless of where you are in the world, you can view your DVR's live or recorded video footage on any Internet accessible computer⁴ with Internet Explorer. See what is happening on your property and check in on your employees or family members.



Stay Notified with Email Alerts

This system keeps you notified of events occurring in your monitoring location. You can set the unit to automatically send alerts to your email inbox whenever motion is detected or when cameras lose power. Up to seven different email addresses can receive these alerts.



Expandable System up to 16 Cameras

As your business grows, so can your security system. If you are looking to boost your security and monitor more areas, you can add up to 8 additional cameras for more robust monitoring. Any camera with a power supply and a RCA or BNC connection is compatible. Cameras in this system have the model number VU301-C.

24/7 Scheduled Recording

You can fully customize a weekly recording schedule. You can choose which days of the week and hours of the day you want to continuously record, motion record, or not record at all. Each camera can be scheduled with different settings.⁷

View in the Dark with Automatic Night Vision

The cameras come equipped with night vision, allowing you to see any monitored area (up to 15ft away!⁸) in total darkness. Each camera has 12 infrared LEDs that activate automatically when it becomes dark and deactivate during the day to save energy. You will always be able to see what is happening in your yard or at your business after-hours.

Search by Date, Time, or Event

Simply choose the desired date and time range, and the requested video clips will appear. Clips are also labeled by event, which makes it easy to find footage that was captured by motion detection.

Endless Location Options with 4 Extra Extension Wires

We've included four extra 60ft extension wires so that you can maximize the distance between your cameras and the DVR (Wire Model #: CVW62).

1 To see which other smart phone devices are compatible, please visit our website: www.svat.com.

2 Recording capacity may vary based on recording resolution and quality, lighting conditions and movement in the scene. Based on a 500GB hard drive, using lowest quality settings.

3 Requires broadband router and broadband Internet connection—not included. Internet Explorer is required.

4 Video playback software is not Mac compatible.

5 Not for use in direct exposure to water, rain or snow.

6 USB flash drive, CD/DVD Writer, FTP site and external hard drive not included.

7 Maximum 30 FPS (frames per second) per camera. Total 240 FPS for all cameras. (at 320 x 240)

8 IR illumination range up to 15ft (4.5M) under ideal conditions. Objects at or beyond this range may be partially or completely obscured, depending on the camera application.

1 YEAR WARRANTY

WHERE DO I PLACE THE CAMERAS AT MY BUSINESS?

Camera Locations

The most important areas to monitor with your cameras are your entrance-ways. By doing this, you will have visual confirmation of everyone who enters and exits your building.



Important Areas

Monitor areas and rooms where valuables, such as your safe, high ticket products and confidential documents are kept.



Store Aisles

Position cameras on to aisles so you can observe any suspicious activity when viewing live or recorded footage.



Inventory Rooms

The FBI calls employee theft the fastest growing crime in America.



Parking Lot

Cameras will help deter criminals from targeting your vehicle or those of your employees.

WHERE DO I PLACE THE CAMERAS AT MY HOME?

Camera Locations

Main level monitoring is essential as nearly 80% of residential intrusions occur through the first floor. Start by mounting near your doorways and windows and then continue to your back and side yards.



Garage

Having a camera mounted on the front of your garage is a highly visual deterrent that keeps criminals from getting access to a doorway or tools that may aid in a break-in.



Pool

Security systems not only protect your possessions, they can protect your family. Having cameras around your pool increases the overall safety of that area.



Driveway

Vehicle theft is not uncommon, and monitoring your driveway also allows you to see who approaches your home.



Shed

Your shed is often filled with valuable items—bicycles, a lawnmower, gardening tools etc. Backyard entries are extremely common, so create a noticeable security presence.

WHAT IS INCLUDED?

- 16CH H.264 DVR with 500GB HDD
- 8 Indoor/Outdoor Night Vision CCD Cameras
- IR Remote Control (batteries included)
- USB Mouse
- 8 x 60ft 4 PIN DIN to RCA (male) Video/Power Wires
- 2 x Four-to-One Camera Power Supply
- 2 Power Supplies for Cameras
- 10ft Power Adapter for DVR
- 10 BNC Connectors (RCA to BNC)
- 4 x 60ft Extension Wires
- 10ft RJ-45 Cable
- 12ft RCA to RCA (male to male)
- 25 Pin D-SUB Adapter for Alarm Input and Relay
- 9 Pin D-SUB Adapter for PTZ Cameras
- Software CD
- Instruction Manual
- Quick Start Guide
- 4 Window Warning Stickers
- 1 Year Warranty
- 24/7 Lifetime Live Customer Support

SPECIFICATIONS

DVR

Display	16CH DVR
Functionality.....	Triplex
Video Compression.....	H.264
Number of cameras supported.....	16
File Format.....	H.264
Resolution.....	NTSC: 720 x 480 / PAL : 720 x 576
Recording Frame Rate	240FPS (Fully Adjustable)
Recording Time	Max 8 years with 500G HDD
Recording Resolution	(Half D1) NTSC : 720 x 240 up to 120 PPS (Half D1) PAL : 720 x 288 up to 100 PPS
Recording Method	Record as Each, Playback in MultiCamera or Full Screen
Recording Qualities	Low, Medium, High, Best
Recording Modes	Manual / Schedule/ Alarm (motion, alarm, video loss)
Recording Media	HDD (Backup via USB, USB CD/DVD & Ethernet)
Storage Capacity	500GB (1.5TB max)
Autostart Recording.....	Yes
Auto Resume Recording.....	Yes (watch dog)
HDD Type.....	Internal (SATA)
Video Format.....	NTSC/PAL
Video Loss Alarm.....	Auto Detect Alarm
Video Inputs.....	16 CH Composite BNC
Video Display Output	1 CH Composite BNC(Monitor), S-Video, VGA
Audio Input.....	1 CH
Audio Output	1 CH
Live Resolution.....	NTSC: 720 x 480 / PAL : 720 x 576
Audio Bitrate.....	32 kbps
Live Frame Rate.....	16 X 30 Frame / Sec
Live Viewing.....	Full, 4, 9, 13, 16 ZOOM, SEQ
Network Protocol	TCP/IP, DDNS, DHCP, PPPoE, SMTP, FTP
Network LAN IP.....	Static, Dynamic
Network Connection	10/100 BaseT Ethernet (RJ-45)
Back-up.....	USB & Ethernet
Play Search Mode.....	Time / Date, Event list
Play Speed	X2 X4 X8
Pan/Tilt/Zoom.....	Yes
Play Mode	1 (Full)/ 4 / 9 / 13 / 16
OSD and System Menu Display.....	Yes
OSD Language Display	Multi-Language
Time and Date Stamp Display	Yes
Password Protection.....	Yes, Menu Password, Clear HDD Password, Network
Adjustable Screen Settings.....	Color, Brightness, Contrast, Hue
File Transfer.....	Ethernet, HDD, USB
Operating System.....	Linux
Disk Full Warning	Yes
Automatic Overwrite Option	Yes
Playback Navigation.....	Rewind, Play, Pause, Stop, Forward
LED Indicators	Play, Power, HDD, REC
Housing Material.....	Aluminum
Housing Color.....	Graphite Grey
Cooling.....	Fan Based
Power Input	12V DC 4.16A
Power Consumption	22W (Without HDD)

Power Adapter Input.....	100V 50/60Hz ~ 240V 50/60 Hz
Operating Temperature	0°F~104°F
Alarm Sensor Inputs.....	Yes, 16
Alarm Sensor Connection	Terminal
Dimensions	11" (w) x 3.15" (h) x 10.3" (d)
Weight	9 lbs
USB Port.....	For Firmware Upgrade, Backup, Mouse
Remote Control	Yes
Supported Peripherals	USB Mouse, IR Remote Control, USB Flash Drive, USB CD/DVD Burners
Alarm Sensor Inputs.....	16
Alarm Relay Outputs	Yes
PTZ Protocols.....	Pelco-D, Pelco-P, Hunt, Li-lin, Dynacolor, Eyeview, EP-Pelco-D, EP-Pelco-P
Mac Compatible?.....	No
PC Requirements for Software CD ..	IE browser
CPU	1 GHz or above
RAM	256MB or above
OS	Microsoft Windows 2000/ XP/Vista

CAMERA

Camera Type.....	Weatherproof Color IR CCD Camera
Image Sensor.....	1/4" Color SHARP CCD
Resolution.....	420 TV Lines
Outdoor Use	Yes
IP Rating	IP65
Focal Length	3.6mm
Focus Type	Fixed
Optimal Focal Distance.....	20 ft
Night Vision.....	Yes
Number of IR LEDs and Range.....	12, up to 15ft
IR LED Control.....	Automatic (CDS Sensor)
Min. Illumination	0 lux
IR Wavelength.....	850nm
Video Output.....	4 PIN DIN to RCA
TV System	NTSC
Microphone.....	No
Motion Detection	No (Built into DVR)
Viewing Angle.....	60 Degrees
Electronic Shutter.....	1/60 ~ 1/100000 sec
AGC	Automatic
ELC	Automatic
Gamma Correction	>0.45
White Balance.....	Automatic
Sun Shield.....	Yes
Housing Material.....	Anodized Aluminum
Housing Color.....	Platinum Silver
Signal/Noise Ratio.....	>48dB
Camera Bracket.....	Yes
Lens Mount type	M12
Pan/Tilt/Zoom.....	No
Operating Temperature	-10° ~ 60°C / Degrees
Operating Humidity.....	98%
Camera Power Input.....	DC 12V 300mA
Power Adapter Input.....	120V 60Hz
LED Power Indicator.....	No
Dimensions	4.75"(L) x 2.5"(W)x 5"(H)
Weight	0.7 lbs