

Secure-Globe

225 George Street, Sydney
G.P.O.Box 2593, Sydney, NSW 2000
Tel: +61-2-92367244 Fax: +61-2-99430267
email: info@secure-marine.com <http://www.Secure-Globe.com>

Intelligent Video Encoder Series

The SV series from Secure-Globe includes a range of intelligent video encoders that enhance standard security cameras and systems by infusing powerful video analytics that automate indoor and outdoor video surveillance, scenario detection, and alarm event responses.

Each SV is a DSP-based device with built-in self-sustained video analytics for powerful automated detection and autonomous tracking of intruders, suspicious baggage, stopped vehicles, removed items and more. Providing hybrid connectivity, SVs convert analog video into MPEG-4 streaming over IP, as well simultaneously outputs analog video with graphical overlay features.

Whether inserted in a camera case, on a shelf, or rack mounted, SVs are designed for simplicity, and can be installed and configured within minutes.

Securing nuclear power sites and national infrastructures, the SV computerized-detection provides high-security, yet is so versatile and easy-to use it is ideal for any security site.

Intrusion detection

Automatically detects and alarms on forbidden directional movement with three flexible options to choose from including detection of human and vehicle movement in controlled areas, tripwire (single or multi-segment lines), and fence trespassing

Loitering

Provides an alarm when a person remains in an area for a prolonged period of time.
Offers an adjustable alert time for different scenarios, alerts of suspicious behavior in crowded areas, crowd gathering, squatting, trespassing and soliciting

Unattended baggage detection

Automatically detects and alarms on the abandonment of baggage or objects in controlled areas

stopped vehicle detection

Automatically detects and alarms on the presence of a stopped vehicle in an area where parking/standing is a violation

Object removal detection










Automatically detects and alarms on the sustained removal of objects or products from their given location

Autonomous ptz tracking

Self-driven vision-guided tracking of a person or vehicle by commanding the pan tilt and zoom of a PTZ camera to assure a constant visual on the target without the assistance of additional stationary cameras

Advantages

- Creates invisible fence capabilities without the costs of fence installation and hardware or the degradation of aesthetics
- Provides wide-area detection that can alert security of suspicious behavior inside and outside of the perimeter
- Provides PTZ camera uninterrupted tracking and automatic camera handoff that follows moving objects
- Provides better coverage than straight-line detectors or point sensors, such as PIR, fence sensors, ground sensors, smart fences, etc.
- Provides instant video confirmation and additional information for assessment of an alarm event
- Can be used on a wireless network reducing deployment and infrastructure costs
- Automatic responses provide instant deterrent and remediation capabilities that can prevent escalation
- Built-in stand-alone video analysis outperforms high-maintenance network dependant solutions that share processing resources, use up bandwidth, and suffer from network latency
- On-alarm video-display reduces the need for fulltime displaying and constant watching of unchanging video

SV Series		Channels*	Max Res (full-FR, per ch)	Ethernet 10/100	RS23 2/RS4 85	Alarm Inputs DC	Relay Outputs DC	Power Source	Power Consumption	Mounting	Dimensions (HxWxD)
SV-1		1	CIF	1 With PoE interface	N/A	1	1	12DVC/PoE	5W	Shelf	29.5x87x105mm
SV-10		1	CIF	1 With PoE interface	1:1	1	1	12DVC/24VAC/ PoE	5W	Camera Housing	53.4×72.64×117.49mm 2 3/32×2 7/8×4 5/8"
SV-10d		1	4CIF	1 With PoE interface	1:1	1	1	12DVC/24VAC/ PoE	7W	Camera Housing	53.4×72.64×117.49mm 2 3/32×2 7/8×4 5/8"
SV-100		1	CIF	2	2:1	4	2	12DVC	5.5W	Shelf	33×187.86×164.21mm 1 5/16×7 13/32×6 15/32"
SV-100d		1	4CIF	2	2:1	4	2	12DVC	8W	Shelf	33×187.86×164.21mm 1 5/16×7 13/32×6 15/32"
SV-200		2	CIF	2	2:1	4	2	12DVC	8W	Shelf	33×187.86×164.21mm 1 5/16×7 13/32×6 15/32"
SV-400		4	CIF	1	4:2	4	4	100-240VAC	18.2W	19" Rack with adapter	222×44×305mm 8 3/4×1 23/32×12"
SV-400d		4	4CIF	1	8:4	8	8	100-240VAC	36.5W	19" Rack	483×44×325mm 19×1 23/32×12 13/16"
SV-800		8	CIF	1	8:4	8	8	100-240VAC	36.5W	19" Rack	483×44×325mm 19×1 23/32×12 13/16"

* Each channel includes a Video In, Video Out, RCA Jack Audio In, and RCA Jack Audio out (Mini Jacks for SV10/d)

web-based setup

Simplicity

- Easy to install, sets up in minutes - intelligent video detection is configured using a web browser or optional control software
- Automatically adjusts for best detection at all times – no ongoing configuration required
- Fully-embedded stand-alone units – no PC required

Performance

- High probability of detection while maintaining a remarkably low false alarms rate
- Detects intruders under harsh weather conditions, low visibility and poor lighting
- Detects camouflaged intruders, extremely slow progression (as slow as 1 ft/5 min), and burst movements
- Superior non-flat detection sees objects in 3D-scape and at great distances for reliable detection
- Supports pre-alarm recording for capturing the moments before an alarm

Reliability

- Certified by the Defense Forces and by leading testing laboratories
- Field-proven with thousands of units deployed since 2003 protecting nuclear facilities, government sites, petrochemical factories, airports and sea-ports
- Robust DSP-based Intelligent video edge device, no central PC processing required
- Ignores false alarms generated by small animals, swaying branches, cloud shadows, light changes, rain, snow and trivial movements in the scenery

Highlights

- Intelligent video and network video encoder in one, operates both as a stand-alone unit or as part of an integrated network configuration
- Built-in high-performance self-sustained video analytics
- High resolution low-latency MPEG-4 audio and video streaming
- Hybrid support for both analog and IP network streaming MPEG-4 architectures –includes audio, video and indication of the cause of an alarm with on screen display overlays
- Integrated with existing stationary and Pan/Tilt/Zoom (PTZ) cameras
- Two-way audio capabilities
- On-alarm recording to any network PC featuring continuous, event driven and scheduled recording
- Performs predefined actions upon detected events
- Built-in HTML web server for access, configuration, and viewing through a network via a standard web browser
- Maintains Quality of Service (QoS): automatically optimizes network quality of service for one or more units, adjusting audio and video streams to bandwidth, traffic characteristics and priority
- Supports remote field-deployment with easy configuration and software upgrades over a network
- Non-PC based processing provides better system reliability and avoids network latency that slows detection

Specifications

Digital Video Outputs

- MPEG-4 SP at CIF and 4CIF resolutions with up to 30fps
- User defined image frame rate 1fps – 30 fps
- User defined bitrate (CBR)

Analog Video Outputs

- Standard – NTSC or PAL
- 1 Physical Connector – BNC 75Ω, Composite 1Vp-p
- Includes Graphical Overlay

Analog Video Inputs

- 1 Physical Connector – BNC 75Ω, Composite 1Vp-p
- Supports stationary and Pan-Tilt-Zoom cameras

Software

- Integrated Web Server
- Application Programming Interface (HTTP API)

Network

- Ethernet Port RJ45 10/100 with PoE
- Services and Protocols: TCP/IP, UDP/IP, HTTP, SMTP, DHCP, DNS, SNTP
- Video – RTP/RTSP • Alarms and Commands – HTTP

Serial I/O

- RS-232/RS-485

Discrete I/O Interface

- IN – Dry Contacts
- OUT – Relay Out (rated load 0.3A@125VAC / 1A@30VDC)

Environmental

- Ambient Operating Temperature: 0°C-50°C (32°F-122°F)
- Ambient Operating Humidity: Less Than 90% (Non Condensing)

Certifications

- Safety – TUV • Electromagnetic Interference (EMC)
- FCC 47 CFR part 14 subpart B, Class A, CE, Class A

Disclaimer: Specifications are subject to change without prior notice. Secure-Globe is not responsible for network performance and/ or other manufacturer products that reside on the network.