



## **Technical Specifications**

The Cisco standalone video encoders (CIVS-SENC-4P and CIVS-SENC-8P) can be used to convert analog video sources into digital formats so they can be integrated into a networked IP based video surveillance system. The 4-Port model (CIVS-SENC-4P) supports four analog video inputs, while the 8-Port model (CIVS-SENC-8P) supports eight analog video inputs. Both devices can be used in a stacked configuration, or they can be rack mounted. A power supply is included with both. Table A-1 lists key features and technical specifications for both encoder models.

Feature	CIVS-SENC-4P	CIVS-SENC-8P
Protocols Supported	Supports two simultaneous video streams. The two streams can be compressed in H.264, MPEG-4 or MJPEG formats, in various combinations of resolution, frame-rate and bit-rate combinations.	Supports a single video stream per port. The stream can be compressed in H.264, MPEG-4 or MJPEG formats and configured with different resolution, frame-rates and bit-rates.
PTZ Interface	Provides a RS-485 interface to allow for connection to PTZ control units supporting the Pelco-D protocol, in order to control Pan-Tilt-Zoom functions in an external camera or PTZ mount.	Provides a RS-485 interface to allow for connection to PTZ control units supporting the Pelco-D protocol, in order to control Pan-Tilt-Zoom functions in an external camera or PTZ mount.
Digital Inputs/ Outputs	Has 4 Digital Outputs and 4 Digital Inputs to connect to/from external sensors.	Has 8 Digital Outputs and 8 Digital Inputs to connect to/from external sensors.
Web Interface	Supports Internet Explorer <sup>®</sup> 8.0 Web browser for remote setup and administration.	Supports Internet Explorer <sup>®</sup> 8.0 Web browser for remote setup and administration.
Video Management	The encoder connects to Cisco Video Surveillance Manager Version 6.3.2 and later.	The encoder connects to Cisco Video Surveillance Manager Version 6.3.2 and later.

## Table A-1 Technical Specifications

Feature	CIVS-SENC-4P	CIVS-SENC-8P	
Features and Benefits	• Up to D1 Resolution per channel	• Up to D1 Resolution per port	
	• Up to 30 Frames per Second (FPS) at D1 resolution	• Up to 30 Frames per Second (FPS) at D1 resolution	
	• H.264, MPEG-4 and MJPEG Compression options	• H.264, MPEG-4 and MJPEG Compression options	
	• Up to 2 Simultaneous Video Streams per port	Up to 5 Privacy Mask windows     per port	
	• Up to 5 Privacy Mask windows per port	• Up to 3 Motion Detection windows per port	
	• Up to 3 Motion Detection windows per port		
AnalogVideo Input Ports	4	8	
Digital Alarm Inputs	4	8	
Digital Alarm Outputs	4	8	
Security	Password protected administrative interface.	Password protected administrative interface.	
	HTTPS access to the administrative interface.	HTTPS access to the administrative interface.	
Certifications/Ratings/P atents	CE, FCC Class B, C-Tick UL /cUL Listed	CE, FCC Class B, C-Tick UL /cUL Listed	
Port	RJ-45 connector for 100/1000 Base-TX Auto MDI/MDI-X	RJ-45 connector for 100/1000 Base-TX Auto MDI/MDI-X	
Cable Type	Cat5 or better	Cat5 or better	
Power Input	12VDC/24VAC (Power supply included)	12VDC/24VAC (Power supply included)	
Power Consumption	24 W (Max)	24 W (Max)	
Local Storage	SD/SDHC slot		
Operational Temperature	50° to 122° F (10° to 50° C)	50° to 122°F (10° to 50°C)	
Operational Humidity	20% to 80%, noncondensing	20% to 80%, noncondensing	
Dimensions	189 mm (L) x 153 mm (W) x 49.3 mm (H)	189 mm (L) x 153 mm (W) x 49.3 mm (H)	
Weight	800g	837g	
Video Encoding	H.264, MPEG-4 and MJPEG (for both PAL and NTSC)	H.264, MPEG-4 and MJPEG (for both PAL and NTSC)	
Video Streams	Up to 2 simultaneous streams; the second stream is variable based on the setup of the primary stream.	Single stream per port.	

Table A-1	<b>Technical Specifications</b>
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Feature	CIVS-SENC-4P	CIVS-SENC-8P	
Audio	G.711 audio encoding (64 Kbps) µ-Law, or A-Law mode selectable. Audio input ( up to 1Vrms) 3.5 mm Phone Jack Audio output Terminal block x 4.	G.711 audio encoding (64 Kbps) µ-Law, or A-Law mode selectable. Audio input ( up to 1Vrms) 3.5 mm Phone Jack Audio output Terminal block x 8.	
	Supports two-way audio (Per channel) Supports audio mute.	Supports two-way audio (Per channel) Supports audio mute.	
PTZ Serial Interface	RS-485 Half Duplex, supporting Pelco-D protocol	RS-485 Half Duplex, supporting Pelco-D protocol	
Available Resolutions	See Table A-2.	See Table A-3.	
Minimum PC Client Requirements	Processor: Intel <sup>®</sup> Core <sup>®</sup> 2 Duo microprocessor, 2.6 GHz.	Processor: Intel <sup>®</sup> Core <sup>®</sup> 2 Duo microprocessor, 2.6 GHz.	
	<ul> <li>Operating System: Microsoft<sup>®</sup> Windows<sup>®</sup> 7</li> </ul>	Operating System: Microsoft <sup>®</sup> Windows <sup>®</sup> 7	
	• Memory: 2 GB RAM	• Memory: 2 GB RAM	
	• Network Interface Card: 100 megabits (or greater)	• Network Interface Card: 100 megabits (or greater)	
	• Monitor: Minimum of 1024 x 768 resolution, 16- or 32-bit pixel color resolution	• Monitor: Minimum of 1024 x 768 resolution, 16- or 32-bit pixel color resolution	
	• Web browser: Internet Explorer <sup>®</sup> 8.0, Quicktime 6.5 and above	• Web browser: Internet Explorer <sup>®</sup> 8.0, Quicktime 6.5 and above	

 Table A-2
 Available Resolutions: CIVS-SENC-4P

Dual streams supported on channels 1-4	Primary stream Max resolution	Primary Max Frame rate (fps)/ Bitrate (Kbps) or Quality/ Intra Frame period (S)	Secondary stream max resolutions	Secondary Max Frame rate (fps)/ Bitrate (Kbps) or Quality Intra Frame period (S)
H.264 + H.264	D1	30 fps	D1	15 fps
		2000 Kbps		2000 Kbps
		1S		1S
H.264 + MPEG	D1	30 fps	D1	3 fps
4		2000 Kbps		2000 Kbps
		1S		1S
H.264 +	D1	30 fps	D1	30 fps
MJPEG		2000 Kbps		Good
		1S		NA

Dual streams supported on channels 1-4	Primary stream Max resolution	Primary Max Frame rate (fps)/ Bitrate (Kbps) or Quality/ Intra Frame period (S)	Secondary stream max resolutions	Secondary Max Frame rate (fps)/ Bitrate (Kbps) or Quality Intra Frame period (S)
MPEG-4 +	D1	20 fps	D1	30 fps
MJPEG		Good		NA
		1S		Good
MPEG-4 + D	D1	15 fps	D1	5 fps
MPEG-4		2000 Kbps		2000Kbps
		1S		1 <b>S</b>
MJPEG + MJPEG	D1	30 fps	D1	25 fps
		Good		Good
		NA		NA

Table A-2	Available Resolutions:	CIVS-SENC-4P (continued)
	Available nesolutions.	

The following are the definitions of resolutions used in the table:

- D1: 720 x 480 (NTSC), 720 x 576 (PAL)
- 4CIF: 704 x 480 (NTSC), 704 x 576 (PAL)
- CIF: 352 x 240 (NTSC), 352 x 288 (PAL)

Table A-3 Available Resolutions: CIVS-SENC-8P

Stream	Max Resolution	Max Frame rate (fps)/ Bitrate (Kbps) or Quality/ Intra Frame period (S)	
H.264	D1	30 fps	
		2000 Kbps	
		15	
MPEG-4	D1	30 fps	
		2000 Kbps	
		15	
MJPEG	D1	30 fps	
		Good	
		NA	

The following are definitions of resolutions used in the table:

- D1: 720 x 480 (NTSC), 720 x 576 (PAL)
- 4CIF: 704 x 480 (NTSC), 704 x 576 (PAL)
- CIF: 352 x 240 (NTSC), 352 x 288 (PAL)