



## General Surveillance Encoder, Video Controller



### DESCRIPTION

A general purpose desktop or rack mounted encoder to provide remote control functions in surveillance applications to cameras, pan & tilts, video switchers, remote power control devices and/or computers.

**SWITCHES:** Thirteen switches are provide on the control panel. Each switch is programmed for a specific function. Each function is programmed to output single or multiple data type codes, depending on the requirement. Data types may be DTMF tones or RS232C ASCII characters.

**OUTPUTS:** Relay contact for keying radio transmitters, DTMF tones for control via radio transmission, and RS232C serial ASCII data for switcher control or computer input.

**RELAY:** An automatic "mike keying" contact closure is provided just prior to outputting tones and just after the last control tone has been sent to limit a radio transmitters carrier "on air" time.

**TONES:** A factory shipped **GSE-202VC Video Control** is programmed to output tones for pan, tilt, zoom, focus, iris, camera on/off, camera selection and quad mode functionality. Other programming is available upon request. For remote video switcher control a SwitchOne.com tone decoder, model **GSD-202VC** is available to converting control tones received to RS232C ASCII to control a quad video switcher.

**SERIAL DATA, RS232C:** The **GSE-202VC Video Control** is programmed to output RS232C standard ASCII data. When switches are depressed, RS232C ASCII codes are automatically sent out the serial port for local quad switcher control or computer control. Quad switcher control functions including horizontal cursor positioning, vertical title positioning, quad / sequential mode and camera selection functions.

### OPERATION

A standard **GSE-202VC Video Controller** is built to control local or remote cameras, lenses, video switchers and pan/tilt units. This system directly drives SwitchOne.com **PTZ-357 Pan & Tilts** and Robot brand video switcher models **MV27, MV77, MV47 and MV87** which are made by Sensormatic.

Continuous tones are sent over a radio or hard wired line when any of the pan/tilt or lens functions are pressed.

Tone sequences are automatically sent when Camera Power ON/OFF or the following Video Switcher Controls are performed: Select Camera 1, 2, 3, or 4 Full Screen Selection, Quad Mode, Sequential Mode, Title Up, Title Down, Cursor Left or Cursor Right are made.

During continuous tones or tone sequences transmitter relay contacts remain closed and are held closed until that function is completed or the key is released.

To switch to "Quad Mode", for switcher control, hold down the "Iris Open" key until you hear beeps.

To switch back to "Manual Iris Mode"-- hold down the "Q" key until you hear beeps.



1 2 3 4 5 6

1 2 3 4

#### RJ-11 CONNECTOR WIRING

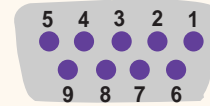
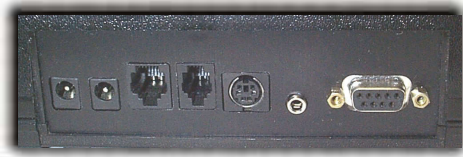
1	Factory programming pin
2	Ground
3	DTMF tones/program pin
4	Factory programming pin
5	Factory programming pin
6	Factory programming pin

#### RJ-10 CONNECTOR WIRING

1	Radio xmit relay - common
2	Ground
3	DTMF tones
4	Radio xmit relay - n/o

#### 3.5mm STEREO CONNECTOR

TIP	DTMF tones
CENTER	Radio xmit relay - n/o
HOUSING	Common



DB9-S REMOTE CONNECTOR,  
FACE VIEW ON GSE-202

#### RS-232C CONNECTOR PIN ASSIGNMENTS

1	Common
2	Transmitt to Quad Recieve In
3	Receive from Quad Xmit Out
5-9	No Contact

#### REMOTE ASCII SWITCHER COMMANDS

/01	Full Screen, Camera 1	(1)
/02	Full Screen, Camera 2	(2)
/03	Full Screen, Camera 3	(3)
/04	Full Screen, Camera 4	(4)
/22	Quad Display Mode	(Q)
/SQ	Sequential Mode	(CLOSE)
/D	Title Text Down	(KEY 3) *MM
/L	Cursor Left	(KEY 4) *MM
/R	Cursor Right	(KEY 1) *MM
/U	Title Text Up	(KEY 2) *MM

\* MM, Manual Iris Mode

*Remote commands shown are compatable with the MV27, MV77, MV47 and MV87 video quad switchers manufactured by: Sensormatic's, Video Products Division, San Diego, CA*



### DTMF TONES SENT FOR PAN/TILT & LENS FUNCTIONS

LENS	N	TONE = *	FOCUS NEAR
	F	#	FOCUS FAR
	T	5	ZOOM TELEPHOTO
	W	10	ZOOM WIDE ANGLE
P&T	L	TONE = 4	PAN LEFT
	R	6	PAN RIGHT
	U	8	TILT UP
	D	2	TILT DOWN
	CLOSE	TONE = 7	IRIS CLOSE
	OPEN	9	IRIS OPEN
	OFF	3 _ 3 _ 3 _ 3	MAN MODE RMT PWR OFF
	ON	1 _ 1 _ 1	MAN MODE RMT PWR ON
	OFF	# _ # _ # _ #	QUAD MODE RMT PWR OFF
	ON	* _ * _ *	QUAL MODE RMT PWR ON

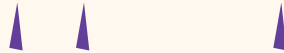


QUAD MODE - SWITCHER CONTROL TONES		
CAM SEL 1	1 _ 1 _ 1	CAMERA 1, FULL SCREEN
2	3 _ 3 _ 3	CAMERA 2, FULL SCREEN
3	7 _ 7 _ 7	CAMERA 3, FULL SCREEN
4	9 _ 9 _ 9	CAMERA 4, FULL SCREEN
Q	5 _ 5 _ 5 #	QUAD MODE
CLOSE	5 _ 5 _ 5 *	SEQUENTIAL MODE

\* Custom tones available upon request



### General Surveillance Encoder, Video Controller



#### 5.5 x 2.1mm JACKS

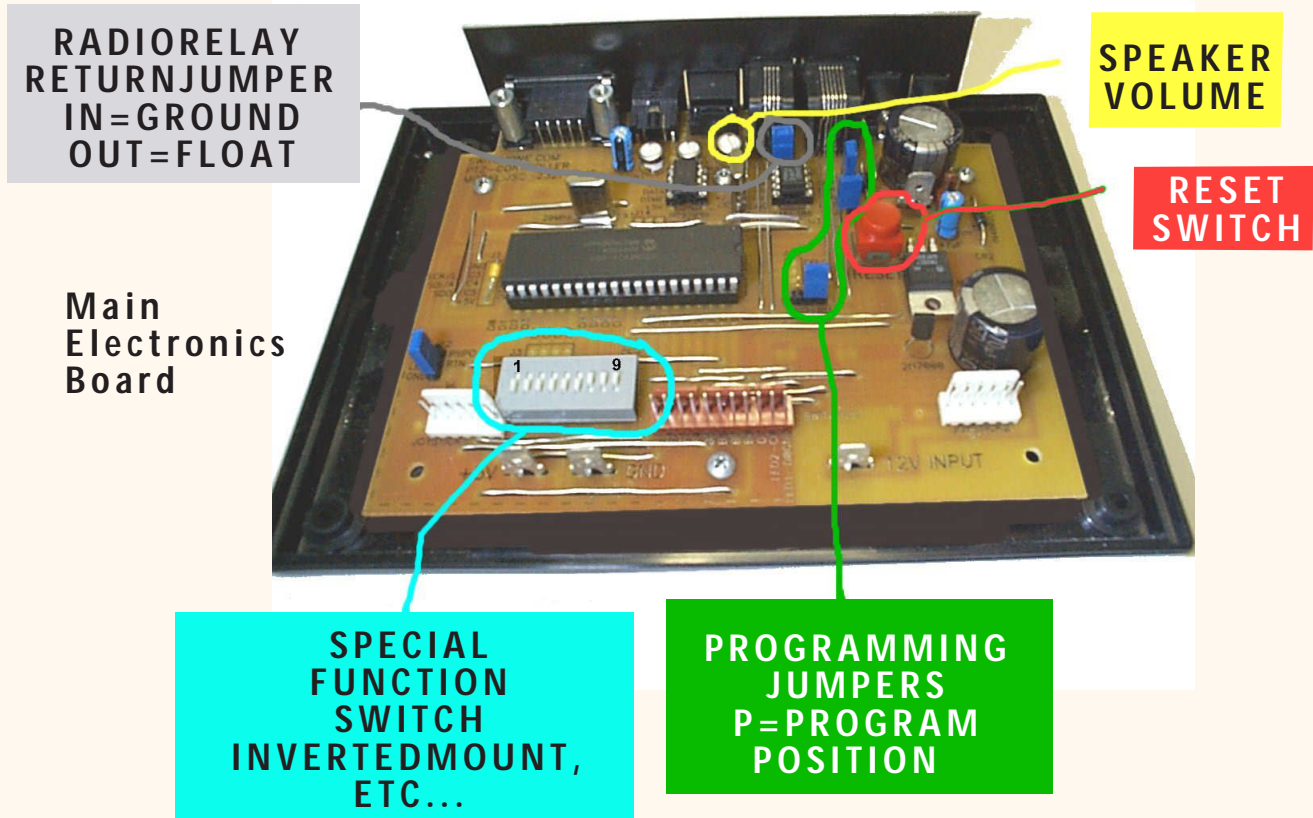
J1 - CENTER	+12VDC (+10-15VDC INPUT)
J1 - SHIELD	Common
J2 - CENTER	Connected to J1 center
J2 - SHIELD	Connected to J1 shield



PS-2 Mouse - Mini Din 6

#### MINI-DIN 6 PIN

1	Data (future use)
2	N/C
3	Common
4	+5VDC (VCC)
5	Clock (future use)
6	N/C



SPECIAL FUNCTION - 9 POSITION SWITCH	
1	ON = CAM 1, INVERTED MNT
2	ON = CAM 2, INVERTED MNT
3	ON = CAM 3, INVERTED MNT
4	ON = CAM 4, INVERTED MNT
5	ON = REVERSE TILT - ALL
6	FUTURE USE
7 - 9	LEAVE IN CENTER POS

