

VP-722DS Video Scaler Video - Multisystem version
RS-232 Remote Control Protocol

* The connection between video scaler and RS-232 remote controller with **modem cable**.

Pins definition of modem cable

Video Scaler			Remote Controller	
PIN	Definition		PIN	Definition
1	NC	→ ←	1	NC
2	TxD		2	RxD
3	RxD		3	TxD
4	NC		4	NC
5	GND		5	GND
6	NC		6	NC
7	NC		7	NC
8	NC		8	NC
9	NC		9	NC

* The connection between video scaler and video switcher with **modem cable**.

Video Switcher : A equipment with 8-set-video-source switching.

Pins definition of modem cable

Video Scaler			Video Switcher	
PIN	Definition		PIN	Definition
1	NC	→ ←	1	NC
2	TxD		2	RxD
3	RxD		3	TxD
4	NC		4	NC
5	GND		5	GND
6	NC		6	NC
7	NC		7	NC
8	NC		8	NC
9	NC		9	NC

* RS-232 transmission format:

Baud Rate : 9600 bps
 Data Bit : 8 bits
 Parity : None
 Stop Bit : 1 bit

* Command / Response codes of RS-232 transmission :
the command / response code is the combination of 3 characters.

Communication between Remote Controller and Video Scaler

Remote Controller		→	Video Scaler	
Command Code	Comment	←	Response Code	Comment
none			OK1	video scaler power on ready
AU!	AUTO		AU0	AUTO mode OFF
			AU1	AUTO mode ON
IN!	INPUT		IN0	S-video
			IN1	Composite video
			IN2	PC1
			IN3	PC2
			IN4	PC3
			IN5	PC4
OU!	OUTPUT		OU0	VGA
			OU1	SVGA
			OU2	XGA
SE!	SELECT		SE0	Horizon
			SE1	Vertical
			SE2	Hue
			SE3	Color
			SE4	Brightness
			SE5	Contrast
			SE6	Sharpness
MI!	[-] minus		MIO	if excess minimum value
PL!	[+] plus		PLO	if excess maximum value
AL!	ALL		AU?	Return all video scaler status
			OU?	
			SE?	
			IN?	
			SO?	
			LO1	if INPUT system locked under AUTO mode
RE!	RESET		none	

none		RE1	video scaler reset
none		LO0	INPUT system unlocked under AUTO mode
none		LO1	INPUT system locked under AUTO mode or change to non-AUTO mode.
SO!	* SOURCE	SO?	Return the present video source set SO0 ~ SO8
none		SO0	No connection of Video Switcher
none		SO1	S-video 1
none		SO2	S-video 2
none		SO3	S-video 3
none		SO4	S-video 4
none		SO5	Composite-video 1
none		SO6	Composite-video 2
none		SO7	Composite-video 3
none		SO8	Composite-video 4

* The 8-set-video-source is set up by Video Switcher

* Video Switcher can't switch the INPUT selection(SV/CV/PC1/PC2/PC3/PC4) of Video Scaler.
Video Switcher only supports what kind of video source to Video Scaler.

Communication between Video Scaler and Video Switcher

Video Scaler		→	Video Switcher	
Command Code	Comment	←	Response Code	Comment
SO!	SOURCE		SO?	Return the present video source set SO0 ~ SO8
none		←	SO0	disconnect to Video Scaler
none		←	SO1	S-video 1
none		←	SO2	S-video 2
none		←	SO3	S-video 3
none		←	SO4	S-video 4
none		←	SO5	Composite-video 1
none		←	SO6	Composite-video 2
none		←	SO7	Composite-video 3
none		←	SO8	Composite-video 4