



Model: VC-A50S



GENERAL INFORMAT	TION					
SIMPLWINDOWS NAME:	Lumens VC-A50S v1.0					
CATEGORY:	Camera					
VERSION:	1.0					
SUMMARY:	This module will control the Lumens VC-A50S. It uses 2-way RS232 communications, stores up to 25 presets on the Crestron system, and allows camera control using Crestron Touch Screen and Crestron App. White Balance, Exposure, and Advanced controls are also included.					
GENERAL NOTES:	 Select the camera ID (use the Set_Addresses) There are two ways to control the camera using the Pan/Tilt control 2.1 Enable the Auto function, camera will configure the appropriate speed depending on the zoom position 2.2 User can manually adjust the speed of pan, tilt and zoom. Saving a preset is a three step process: 3.1 Move the camera to the desired position 3.2 Press "Save " 3.3 Press the preset you wish to save the location to To recall a preset, just press the preset number. 					
CRESTRON HARDWARE REQUIRED:	 Crestron 3-Series Controller Com port x1 LAN port x1 					
SETUP OF CRESTRON HARDWARE:	RS232 Baud:9600 Parity: None Data Bits: 8 Stop Bits: 1					
VENDOR FIRMWARE:	none					
VENDOR SETUP:	If you are using more than one camera with the VISCA inputs daisy chained, you must pulse the Set_Addresses input. This will set the address of each camera on the daisy chain. You should only pulse the Set_Addresses input on one of the modules in the program, not on all of them.					

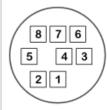


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Device Type: Camera



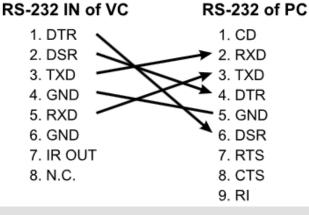
▼ RS-232 IN Pins Instructions



NO	Pins	Signals			
1	DTR	Data Transmission Reade			
2	DSR	Data Set Reade			
3	TXD	Transmit Data			
4	GND	Ground			
5	RXD	Receive Data			
6	GND	Ground			
7	IR OUT	IR Commander Signal			
8	N.C.	No Connection			

CABLE DIAGRAM:

▼ RS-232 Connection Instructions



CONTROL:	
Cam_Normal_Func_ASK_Status	Get the status from the camera for Normal Tab
Cam_ExpMode_ASK_Status	Get the status from the camera for Exposure Tab
Cam_WhiteBalance_ASK_Status	Get the status from the camera for White Balance Tab
Cam_Advanced_ASK_Status	Get the status from the camera for Advanced Tab
Cam_Power_ASK_Status	Get the power status from the camera





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Set_Id_01~Set_Id_07	D	Set the addresses 1~7 for the cameras
Set_Addresses	D	Pulse once to set the addresses for the cameras with the VISCA inputs daisy chained
Power_On	D	Power on camera
Power_Off	D	Power off camera
Tilt_Up	D	Tilt up
Tilt_Down	D	Tilt down
Pan_Left	D	Pan Left
Pan_Right	D	Pan Right
Pan_Tilt_Reset	D	Reset the pan and tilt motor of camera
Zoom_In	D	Zoom in camera
Zoom_Out	D	Zoom out camera
Pan_Speed#	Α	Set the pan speed
Tilt_Speed#	Α	Set the tilt speed
Zoom_Speed#	Α	Set the zoom speed
Pan_Speed_Auto	D	Set Pan speed auto or manual
Tilt_Speed_Auto	D	Set Tilt speed auto or manual
Focus_Near	D	Focus near in manual focus mode
Focus_Far	D	Focus far in manual focus mode
Auto_Focus_On	D	Set camera to auto focus mode
Auto_Focus_Off	D	Set camera to manual focus mode
Auto_Focus_Toggle	D	Trigger one auto focus action



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Home	D	Camera go to the home position
Save	D	Save preset
Reset	D	Reset (Clear) preset
Preset_1 ~ Preset_25	D	Call preset
Pic_Mirror	D	Set Image mirror on or off
Pic_Flip	D	Set Image flip on or off
Freeze	D	Set camera output freeze
EXP_Full_Auto	D	Set exposure mode to full auto mode
EXP_Manual	D	Set exposure mode to manual mode
EXP_Shutter_Priority	D	Set exposure mode to shutter priority mode
EXP_Iris_Priority	D	Set exposure mode to iris priority mode
EXP_Bright	D	Set exposure mode to bright mode
EXP_Smooth_Auto	D	Set exposure mode to smooth auto mode VC-A50S don't support this mode
EXP_White_Board	D	Set exposure mode to white board mode But VC-A50S don't support this mode
Iris_Reset	D	Iris reset
Iris_Up	D	Iris up
Iris_Down	D	Iris down
Iris_Position_In#	Α	Read the Iris Position
Shutter_Reset	D	Shutter reset
Shutter_Up	D	Shutter up





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Shutter_Down	D	Shutter down			
Shutter_Position_In#	Α	Read the Shutter Position			
Gain_Reset	D	Gain Reset			
Gain_Up	D	Gain Up			
Gain_Down	D	Gain Down			
Gain_Position_In#	Α	Read Gain from Camera			
ExpComp_On	D	Exposure Compensation On			
ExpComp_Off	D	Exposure Compensation Off			
ExpComp_Reset	D	Exposure Compensation Reset			
ExpComp_Up	D	Exposure Compensation Up			
ExpComp_Down	D	Exposure Compensation Down			
ExpComp_Position_In#	Α	Read the current value of Exposure Compensation			
ExpComp_Position_Out#	Α	Set the value of Exposure Compensation			
WDR_Off	D	Turn WDR On or Off			
WDR_Off_FB	D	The feedback of WDR_Off			
WDR_Mode_1 ~WDR_Mode_5	D	Set WDR value 1~5			
WhiteBalance_Auto	D	Set White Balance to Auto Mode			
WhiteBalance_Indoor	D	Set White Balance to Indoor Mode			
WhiteBalance_Outdoor	D	Set White Balance to Outdoor Mode			
WhiteBalance_OnePushWB	D	Set White Balance to One Push WB Mode			
WhiteBalance_ATW	D	Set White Balance to ATW Mode			



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WhiteBalance_Manual	D	Set White Balance to Manual Mode
WhiteBalance_OutdoorAuto	D	Set White Balance to Outdoor Mode
WhiteBalance_SDLampAuto	D	Set White Balance to Sodium Lamp Auto Mode
WhiteBalance_SodiumLamp	D	Set White Balance to Sodium Lamp Mode
WhiteBalance_SDLampOutdoorAuto	D	Set White Balance to Sodium Lamp Outdoor Auto Mode
WhiteBalance_OnePushTrigger	D	Trigger One Push White Balance
RGain_Reset	D	Reset RGain
RGain_Up	D	RGain Up
RGain_Down	D	RGain Down
BGain_Reset	D	Reset BGain
BGain_Up	D	BGain Up
BGain_Down	D	BGain Down
RGain_Position_Out#	Α	Read the RGain value from camera
RGain_Position_In#	Α	Set the RGain value to camera
BGain_Position_Out#	Α	Read the BGain value from camera
BGain_Position_In#	Α	Set the BGain value to camera
Preset_Speed_Fast_B	D	Set preset speed to fast speed
Preset_Speed_Middle_B	D	Set preset speed to fast speed
Preset_Speed_Slow_B	D	Set preset speed to slow speed
PanTiltSpeed_Smooth_B	D	Set pan tile speed mode to "Smooth" mode
PanTiltSpeed_Normal_B	D	Set pan tile speed mode to "Normal" mode





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From_PTZCamera\$	S	Serial signal to be routed from a 2 way serial com port
To_PTZCamera\$	s	Serial signal to be route to a 2 way serial com port.

FEEDBACK:		
Show_Device_id#	Α	The feedback of camera address
Power_On_FB	D	The feedback of Power_On
Power_Off_FB	D	The feedback of Power_Off
Pan_Speed_Auto_On	D	The feedback of Pan_Speed_Auto
Tilt_Speed_Auto_On	D	The feedback of Tilt_Speed_Auto
Focus_Auto_FB	D	The feedback of Auto_Focus_On
Focus_Manual_FB	D	The feedback of Auto_Focus_Off
Preset_1 _FB ~ Preset_25_FB	D	The feedback of call preset
Pic_Mirror_On_FB	D	The feedback of Pic_Mirror
Pic_Flip_On_FB	D	The feedback of Pic_Flip
Pic_Freeze_On_Fb	D	The feedback of Freeze
EXP_Full_Auto_Fb	D	The feedback of EXP_Full_Auto
EXP_Manual_Fb	D	The feedback of EXP_Manual
EXP_Shutter_Priority_Fb	D	The feedback of EXP_Shutter_Priority
EXP_Iris_Priority_Fb	D	The feedback of EXP_Iris_Priority
EXP_Bright_Fb	D	The feedback of EXP_Bright
EXP_Smooth_Auto_Fb	D	The feedback of EXP_Smooth_Auto
EXP_White_Board_Fb	D	The feedback of EXP_White_Board_Fb





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Cam_ExpComp_On_Fb	D	The feedback of ExpComp_On
Cam_ExpComp_Off_Fb	D	The feedback of ExpComp_Off
WDR_Mode_1_FB ~ WDR_Mode_5_FB	D	The feedback of WDR_Mode_*
WhiteBalance_Auto_FB	D	The feedback of WhiteBalance_Auto
WhiteBalance_Indoor_FB	D	The feedback of WhiteBalance_Indoor
WhiteBalance_Outdoor_FB	D	The feedback of WhiteBalance_Outdoor
WhiteBalance_OnePushWB_FB	D	The feedback of WhiteBalance_OnePushWB
WhiteBalance_ATW_FB	D	The feedback of WhiteBalance_ATW
WhiteBalance_Manual_FB	D	The feedback of WhiteBalance_Manual
WhiteBalance_OutdoorAuto_FB	D	The feedback of WhiteBalance_OutdoorAuto
WhiteBalance_SDLampAuto_FB	D	The feedback of WhiteBalance_SDLampAuto
WhiteBalance_SodiumLamp_FB	D	The feedback of WhiteBalance_SodiumLamp
$White Balance_SDL amp Outdoor Auto_FB$	D	The feedback of WhiteBalance_SDLampOutdoorAuto
Preset_Speed_Fast_Fb	D	The feedback of Preset_Speed_Fast_B
Preset_Speed_Middle_Fb	D	The feedback of Preset_Speed_Middle_B
Preset_Speed_Slow_Fb	D	The feedback of Preset_Speed_Slow_B
PanTiltSpeed_Smooth_Fb	D	The feedback of PanTiltSpeed_Smooth_B
PanTiltSpeed_Normal_Fb	D	The feedback of PanTiltSpeed_Normal_B





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TESTING:	
OPS USED FOR TESTING:	RMC3: v1.012.0017
SIMPL WINDOWS USED FOR TESTING:	4.04.03
DEVICE DB USED FOR TESTING:	78.05.001.00
CRES DB USED FOR TESTING:	58.05.002.00
SYMBOL LIBRARY USED FOR TESTING:	1010
SAMPLE PROGRAM:	3-Series: Lumens VC-A50S v1.0 Demo RMC3.smw
REVISION HISTORY:	v1.0 – Initial Release