**Partner:** Marshall Electronics
**Model:** CV620
**Device Type:** Camera

| General Information | |
|---|---|
| **SIMPLWINDOWS Name:** | PTZCamera-Control for Marshall CV620 |
| **Category:** | Camera |
| **Version:** | 1.0 |
| **Summary:** | This module will control the Marshall CV620. 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:** | 1 Select the camera ID (use the Set_Addresses)<br>2 There are two ways to control the camera using the Pan/Tilt control<br>2.1 Enable the Auto function, camera will configure the appropriate speed depending on the zoom position<br>2.2 User can manually adjust the speed of pan, tilt and zoom.<br>3 Saving a preset is a three step process:<br>3.1 Move the camera to the desired position<br>3.2 Press “Save “<br>3.3 Press the preset you wish to save the location to<br>4 To recall a preset, just press the preset number. |
| **Crestron Hardware Required:** | 1. Crestron 3-Series Controller<br>2. Com port x1<br>3. LAN port x1 |
| **Setup of Crestron Hardware:** | RS232<br>Baud rate: 9600<br>Parity: N<br>Data Bits: 8<br>Stop Bits: 1 |
| **Vender Firmware:** | None |
| **Vender Setup:** | If you are using more than one camera with the VISCA |

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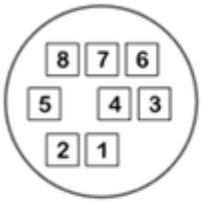
| | inputs daisy chained, you must pulse the Set_Addresses input. This will set the address of each camera on the daisy chain. You should only pulse the Set_Addresses input on one of the modules in the program, not on all of them. |

## Cable Diagram

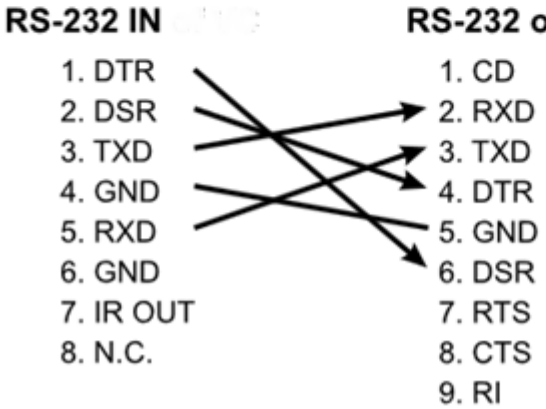
**RS-232 connection**

### 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 |

### RS-232 Connection Instructions



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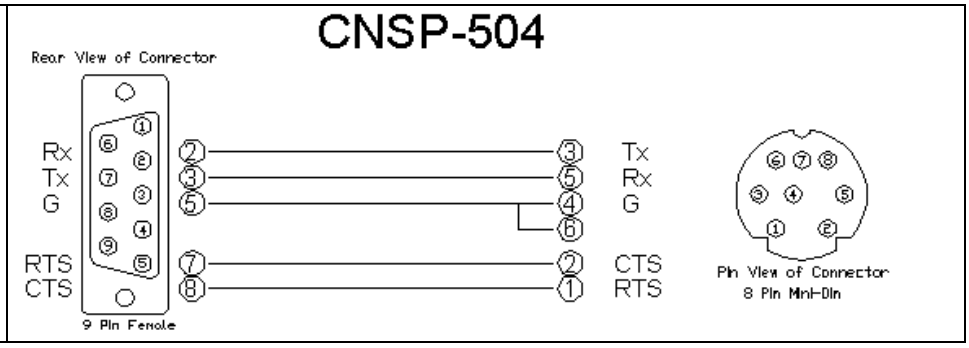
| **Crestron CNSP-504 Cable** |  |

| 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 |
| **Set_Id_01~Set_Id_07** | Set the addresses 1~7 for the cameras |
| **Set_Addresses** | Pulse once to set the addresses for the cameras with the VISCA inputs daisy chained |
| **Show_Device_id#** | The feedback of camera address |
| **Power_On** | Power on camera |
| **Power_Off** | Power off camera |
| **Power_On_FB** | The feedback of Power_On |
| **Power_Off_FB** | The feedback of Power_Off |
| **Tilt_Up** | Tilt up |
| **Tilt_Down** | Tilt down |
| **Pan_Left** | Pan Left |
| **Pan_Right** | Pan Right |
| **Pan_Tilt_Reset** | Reset the pan and tilt motor of camera |
| **Zoom_In** | Zoom in camera |
| **Zoom_Out** | Zoom out camera |
| **Pan_Speed#** | Set the pan speed |

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|---|---|
| **Tilt_Speed#** | Set the tilt speed |
| **Zoom_Speed#** | Set the zoom speed |
| **Pan_Speed_Auto** | Set Pan speed auto or manual |
| **Pan_Speed_Auto_On** | The feedback of Pan_Speed_Auto |
| **Tilt_Speed_Auto** | Set Tilt speed auto or manual |
| **Tilt_Speed_Auto_On** | The feedback of Tilt_Speed_Auto |
| **Focus_Near** | Focus near in manual focus mode |
| **Focus_Far** | Focus far in manual focus mode |
| **Auto_Focus_On** | Set camera to auto focus mode |
| **Auto_Focus_Off** | Set camera to manual focus mode |
| **Auto_Focus_Toggle** | Trigger one auto focus action |
| **Focus_Auto_FB** | The feedback of Auto_Focus_On |
| **Focus_Manual_FB** | The feedback of Auto_Focus_Off |
| **Home** | Camera go to the home position |
| **Save** | Save preset |
| **Reset** | Reset (Clear) preset |
| **Preset_1 ~ Preset_25** | Call preset |
| **Preset_1 _FB ~ Preset_25_FB** | The feedback of call preset |
| **Pic_Mirror** | Set Image mirror on or off |
| **Pic_Mirror_On_FB** | The feedback of Pic_Mirror |
| **Pic_Flip** | Set Image flip on or off |
| **Pic_Flip_On_FB** | The feedback of Pic_Flip |
| **Backlight** | Set backlight on or off |
| **Pic_Backlight_On_Fb** | The feedback of Backlight |
| **Freeze** | Set camera output freeze |
| **Pic_Freeze_On_Fb** | The feedback of Freeze |
| **EXP_Full_Auto** | Set exposure mode to full auto mode |
| **EXP_Full_Auto_Fb** | The feedback of EXP_Full_Auto |
| **EXP_Manual** | Set exposure mode to manual mode |
| **EXP_Manual_Fb** | The feedback of EXP_Manual |
| **EXP_Shutter_Priority** | Set exposure mode to shutter priority mode |
| **EXP_Shutter_Priority_Fb** | The feedback of EXP_Shutter_Priority |
| **EXP_Iris_Priority** | Set exposure mode to iris priority mode |
| **EXP_Iris_Priority_Fb** | The feedback of EXP_Iris_Priority |

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| **EXP_Bright** | Set exposure mode to bright mode |
| **EXP_Bright_Fb** | The feedback of EXP_Bright |
| **EXP_Smooth_Auto** | Set exposure mode to smooth auto mode<br>CV620 don't support this mode |
| **EXP_Smooth_Auto_Fb** | The feedback of EXP_Smooth_Auto |
| **EXP_White_Board** | Set exposure mode to white board mode<br>CV620 don't support this mode |
| **EXP_White_Board_Fb** | The feedback of EXP_White_Board_Fb |
| **Iris_Reset** | Iris reset |
| **Iris_Up** | Iris up |
| **Iris_Down** | Iris down |
| **Iris_Position_In#** | Read the Iris Position |
| **Shutter_Reset** | Shutter reset |
| **Shutter_Up** | Shutter up |
| **Shutter_Down** | Shutter down |
| **Shutter_Position_In#** | Read the Shutter Position |
| **Gain_Reset** | Gain Reset |
| **Gain_Up** | Gain Up |
| **Gain_Down** | Gain Down |
| **Gain_Position_In#** | Read Gain from camera |
| **ExpComp_On** | Exposure Compensation On |
| **Cam_ExpComp_On_Fb** | The feedback of ExpComp_On |
| **ExpComp_Off** | Exposure Compensation Off |
| **Cam_ExpComp_Off_Fb** | The feedback of ExpComp_Off |
| **ExpComp_Reset** | Exposure Compensation Reset |
| **ExpComp_Up** | Exposure Compensation Up |
| **ExpComp_Down** | Exposure Compensation Down |
| **ExpComp_Position_In#** | Read the current value of Exposure Compensation |
| **ExpComp_Position_Out#** | Set the value of Exposure Compensation |
| **WDR_Off** | Turn WDR On or Off |
| **WDR_Off_FB** | The feedback of WDR_Off |
| **WDR_Mode_1 ~WDR_Mode_5** | Set WDR value 1~5 |
| **WDR_Mode_1_FB ~ WDR_Mode_5_FB** | The feedback of WDR_Mode_* |
| **WhiteBalance_Auto** | Set White Balance to Auto Mode |

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|---|---|
| **WhiteBalance_Auto_FB** | The feedback of WhiteBalance_Auto |
| **WhiteBalance_Indoor** | Set White Balance to Indoor Mode |
| **WhiteBalance_Indoor_FB** | The feedback of WhiteBalance_Indoor |
| **WhiteBalance_Outdoor** | Set White Balance to Outdoor Mode |
| **WhiteBalance_Outdoor_FB** | The feedback of WhiteBalance_Outdoor |
| **WhiteBalance_OnePushWB** | Set White Balance to One Push WB Mode |
| **WhiteBalance_OnePushWB_FB** | The feedback of WhiteBalance_OnePushWB |
| **WhiteBalance_ATW** | Set White Balance to ATW Mode |
| **WhiteBalance_ATW_FB** | The feedback of WhiteBalance_ATW |
| **WhiteBalance_Manual** | Set White Balance to Manual Mode |
| **WhiteBalance_Manual_FB** | The feedback of WhiteBalance_Manual |
| **WhiteBalance_OutdoorAuto** | Set White Balance to Outdoor Mode |
| **WhiteBalance_OutdoorAuto_FB** | The feedback of WhiteBalance_OutdoorAuto |
| **WhiteBalance_SDLampAuto** | Set White Balance to Sodium Lamp Auto Mode |
| **WhiteBalance_SDLampAuto_FB** | The feedback of WhiteBalance_SDLampAuto |
| **WhiteBalance_SodiumLamp** | Set White Balance to Sodium Lamp Mode |
| **WhiteBalance_SodiumLamp_FB** | The feedback of WhiteBalance_SodiumLamp |
| **WhiteBalance_SDLampOutdoorAuto** | Set White Balance to Sodium Lamp Outdoor Auto Mode |
| **WhiteBalance_SDLampOutdoorAuto_FB** | The feedback of WhiteBalance_SDLampOutdoorAuto |
| **WhiteBalance_OnePushTrigger** | Trigger One Push White Balance |
| **RGain_Reset** | Reset RGain |
| **RGain_Up** | RGain Up |
| **RGain_Down** | RGain Down |
| **BGain_Reset** | Reset BGain |
| **BGain_Up** | BGain Up |
| **BGain_Down** | BGain Down |
| **RGain_Position_Out#** | Read the RGain value from camera |
| **RGain_Position_In#** | Set the RGain value to camera |
| **BGain_Position_Out#** | Read the BGain value from camera |

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|---|---|
| **BGain_Position_In#** | Set the BGain value to camera |
| **Preset_Speed_Fast_B** | Set preset speed to fast speed |
| **Preset_Speed_Fast_Fb** | The feedback of Preset_Speed_Fast_B |
| **Preset_Speed_Middle_B** | Set preset speed to middle speed |
| **Preset_Speed_Middle_Fb** | The feedback of Preset_Speed_Middle_B |
| **Preset_Speed_Slow_B** | Set preset speed to slow speed |
| **Preset_Speed_Slow_Fb** | The feedback of Preset_Speed_Slow_B |
| **PanTiltSpeed_Smooth_B** | Set pan tile speed mode to “Smooth” mode |
| **PanTiltSpeed_Smooth_Fb** | The feedback of PanTiltSpeed_Smooth_B |
| **PanTiltSpeed_Normal_B** | Set pan tile speed mode to “Normal” mode |
| **PanTiltSpeed_Normal_Fb** | The feedback of PanTiltSpeed_Normal_B |