



customcodecrafters

C3 Pelco P ptz

GENERAL INFORMATION

SIMPLWINDOWS FILE NAME:	C3 pelco p ptz.umc
CATEGORY:	Camera
CURRENT VERSION:	1.00
PROGRAMMER:	GO
SUMMARY:	This module will control PTZ cameras that comply with the Pelco P protocol
SYSTEMBUILDER COMPATIBLE	Yes

GENERAL NOTES:

This module provides most of the functional commands required to control a PTZ camera complying with the Pelco P format.

It is capable of pan/tilt and zoom functions plus many other commands that are documented below.

The module supports x/y joystick functions to allow for pan/tilt with speed control. This will mimic the action of a standard PTZ joystick on the touchpanel using a 'trackpad'.

This module should work directly from the processor com ports which simply need to be set to RS-485. A suitable RS-485 cable will need to be prepared. The wiring info for this is detailed below.

Note: If using an electrostatic screen on the RS-485 cable, it should only be connected at one end. A termination resistor may be required depending on cable infrastructure & number of cameras.

Setup:

- Ensure that the PTZ camera can be controlled using a standard camera keypad
- Within the simpl windows program configure the port to RS-485 and set the baud rate to match the camera
- Prepare a suitable RS-485 2-wire connection (details below)
- Set the module 'address' parameter to match the PTZ camera

Touchpanel setup:

To use the pan/tilt joystick functions; the VT-Pro project will need some setting up.

- Place a slider object in the project
- Select the slider Properties
- Select the 'Design' tab
- Set 'Dimension' to 2D
- Check 'Signed Feedback'
- Select the 'Analog Touch/Feedback Join' from the drop down & set the join number. (the second join will be filled automatically)
- Note: the first assigned join will be 'Pan', the second join will be 'Tilt'
- Select 'Signed Touch' from the drop down & enable it
- Select 'Spring Return' from the drop down & enable it
- Select [OK]

Joystick values for the 2D slider are as follows:
Pan Left: -32768 to 0d
Pan Right: 0 to 32767d
Tilt Up: 0 to 32767d
Tilt Down: -32768 to 0d



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REQUIRED AUXILIARY FILES:	Pelco p crc.usp
COMMS SETUP:	RS-485 4800 (Default), 8, 1, N. Handshaking: None. RTS/CTS is not used
CABLE DIAGRAM:	<p>The diagram shows an RS485 interface with a 6-pin connector. Pin 1 is shield. Pin 2 is connected to the A (-) terminal of the first camera module. Pin 3 is connected to the B (+) terminal of the first camera module. Pin 4 is connected to the A (-) terminal of the second camera module. Pin 5 is connected to the B (+) terminal of the second camera module. Pin 6 is connected to the A (-) terminal of the third camera module. A 120 ohm resistor (Rt) is connected between pins 2 and 4. An optional ground connection is shown between pins 1 and 6.</p>

INPUT DEFINITIONS		
tx\$	S	RS-485 serial data to camera
[pan.left]	D	Pan left. Speed is determined by [pan.speed] input & 'default pan speed' parameter
[pan.right]	D	Pan right. Speed is determined by [pan.speed] input & 'default pan speed' parameter
[pan]	A	Joystick control providing x co-ordinates for pan. This works in a similar fashion to a PTZ keyboard. The further from the default rest point the faster the panning action
[pan.speed]	A	Slider input to set the speed for the [pan.left/right] inputs. Value is 0-65535d Note: If turbo mode has been enabled, adjusting this value will cancel turbo mode
[turbo]	D	Enables turbo speed mode. When this mode is enabled the current speed setting is stored. When turbo is disabled the stored speed setting is recalled
[tilt.up]	D	Tilt up. Speed is determined by [tilt.speed] input & 'default tilt speed' parameter
[tilt.down]	D	Tilt down. Speed is determined by [tilt.speed] input & 'default tilt speed' parameter
[tilt]	A	Joystick control providing y co-ordinates for tilt. This works in a similar fashion to a PTZ keyboard. The further from the default rest point the faster the tilt action
[tilt.speed]	A	Slider input to set the speed for the [tilt.up/down] inputs. Value is 0-65535d
[iris.open/close]	D	Open or close the camera iris
[focus+/-]	D	Set the camera focus
[focus.lens.speed.n]	D	Set the focus speed time. 1-4
[zoom+/-]	D	Zoom between wide & tele mode
[zoom.lens.speed.n]	D	Set the zoom speed time. 1-4
[set.preset]	D	Usually will store position for the currently selected preset. These functions may change from camera to camera



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[goto.preset]	D	Usually will position the camera to a stored preset
[clear.preset]	D	Clears the currently selected preset
[preset]	A	Select a preset (1-255)

OUTPUT DEFINITIONS

[rx\$]	S	Currently serves no function & may be omitted
[ack.fb]	D	Currently serves no function & may be omitted
[pan.speed.fb]	A	Indicates the current pan speed. Feedback to panel slider object
[turbo.fb]	D	Indicates turbo mode. Feedback to panel button
[tilt.speed.fb]	A	Indicates the current tilt speed. Feedback to panel slider object
[preset.fb]	A	Feedback for the currently selected preset

PARAMETERS

address	(s)	Set the module address for the camera. Remember to set in hex or decimal equivalent For instance address 16 decimal is 10 hex
default pan speed	(a)	Set the initial pan speed after a system boot. The following are valid: Decimal (d), Hexadecimal (h) & Percentage (%). Default value is 50% Range is 1-65535d
default tilt speed	(a)	Set the initial tilt speed after a system boot. The following are valid: Decimal (d), Hexadecimal (h) & Percentage (%). Default value is 50% Range is 1-65535d

REVISION NOTES

1.00	GO	<ul style="list-style-type: none">Initial Release
COMMENTS:		

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