

SIMPLWINDOWS NAME: PictureTel 4000-4500 Camera Control

CATEGORY: Conferencing

VERSION: 1.1

SUMMARY: Controls any PictureTel near or far end cameras

GENERAL NOTES: There are 4 near end presets and 4 far end presets available. For the near end this means that there are 4 presets total for all of the near end cameras. When a preset is stored, the position of the camera, as well as the camera selected is stored into the preset. Therefore, if preset 1 stores the location of the main camera, preset 1 cannot be used to store the position of the AuxA camera without overwriting the position of the main camera.

Storing a preset is a three step process.

1. Move the camera to the correct position
2. Press SET-PRESET. SET-PRESET-FB will go high
3. Press the preset to store the position into

To recall a preset, simply press that preset button while SET-PRESET-FB is low.

CRESTRON HARDWARE: CNXCOM,
ST-COM

SETUP OF CRESTRON HARDWARE: The baud rate, parity, data bits, and stop bits can be set on the PictureTel system. The default settings that the PictureTel is set to are 1200 baud, odd parity, and 8 data bits. However the following settings were tested at Crestron:

Baud Rate - 9600
Parity - None
Data Bits - 8
Stop Bits - 1

Note - If using a Crestron ST-COM port, you must assert the RTS line. This is done by pressing Alt-F8 in the ST-COM port definition until A_RTS or B_RTS is displayed. Then place a 1 in the corresponding signal name field.

VENDOR FIRMWARE: 6.12.0.

VENDOR SETUP: The PictureTel system has up to four data ports, (A, B, C, D), and two control ports, (A, B). YOU MUST USE CONTROL PORT A TO COMMUNICATE FROM CRESTRON TO PICTURETEL. The parameters of Control Port A can be set up by using the PictureTel wired or infrared keypad as follows:

Enter the setup menus
Choose Configuration Menu
Choose Data Port Configuration
Choose Set Control Port A

For Select Type, make sure that Control Protocol is chosen
For Baud Rate and Parity, make sure that these settings match the settings of the CNXCOM port. Settings which were tested at Crestron were 9600 baud, 8 data bits, None parity.

Exit from the menu system

CABLE NUMBER: CNSP-533

CONTROL:

MAIN-CAM	D	Momentary input to select the main camera for control
DOC-CAM	D	Momentary input to select the doc camera for control
AUXA-CAM	D	Momentary input to select the AuxA camera for control
AUXB-CAM	D	Momentary input to select the AuxB camera for control
FAR-CAM	D	Momentary input to select the far camera for control
LEFT	D	Pan the selected camera left
RIGHT	D	Pan the selected camera right
UP	D	Tilt the selected camera up
DOWN	D	Tilt the selected camera down
ZOOM-IN	D	Zoom the selected camera tight
ZOOM-OUT	D	Zoom the selected camera wide
PRESET-1	D	Select preset 1 (near or far end)
PRESET-2	D	Select preset 2 (near or far end)
PRESET-3	D	Select preset 3 (near or far end)
PRESET-4	D	Select preset 4 (near or far end)
SET-PRESET	D	Momentary input to put the module into store mode. If a preset is pressed while in store mode, the current camera and location will be stored to that preset

FEEDBACK:

MAIN-CAM-FB	D	Indicates that the main camera is being controlled
DOC-CAM-FB	D	Indicates that the doc camera is being controlled
AUXA-CAM-FB	D	Indicates that the AuxA camera is being controlled
AUXB-CAM-FB	D	Indicates that the AuxB camera is being controlled
FAR-CAM-FB	D	Indicates that the far end camera is being controlled
PRESET-1-FB	D	Indicates that preset 1 was last selected
PRESET-2-FB	D	Indicates that preset 2 was last selected
PRESET-3-FB	D	Indicates that preset 3 was last selected
PRESET-4-FB	D	Indicates that preset 4 was last selected
SET-PRESET-FB	D	Indicates that store mode is on. If a preset is pressed while this signal is high, then the current position of the camera will be stored into the selected preset.
PTEL-TX\$	S	Serial data string to be routed to the CNXCOM card designated for control of the PictureTel system. All switching commands are contained within this serial data signal.

OPS USED FOR TESTING: 3.17.31
COMPILER USED FOR TESTING: 1.20.04
SAMPLE PROGRAM: PTELTSTD
REVISION HISTORY: CN-PCAMB - Original
CN-PCAMC - Dropped Workshop support,
Corrected "signal without driving source"
in SimplWindows