

SIMPLWINDOWS NAME: PictureTel 4000-4500 Video Dialing (20 presets)
CATEGORY: Conferencing
VERSION: 1.2
SUMMARY: Controls video dialing on a PictureTel codec
GENERAL NOTES:

Initialization:

Before performing any functions on the PictureTel, it should be initialized. Pressing the INITIALIZE-CODEC input on the module will perform this function. The initialization process will take anywhere from 4 to 30 seconds. The codec only needs to be initialized one time after being powered on. It does not need to be initialized before placing each call. While the initialization is in progress, the INIT-CODEC-BUSY output will be high. The initialization routine will check for communications, take the codec out of standby, set up the number of monitors in the system, set up auto answer mode, etc.

Dialing:

The module allows one or two number calls to be placed manually, as well as store those numbers in up to 20 preset locations. There is also the option of adding an Ascend prefix (profile 1-20) or a Teleos suffix to the numbers entered. Phone numbers are entered, dialed and stored as follows:

1. Select SELECT-NUM-1, and type in the first phone number
2. If there is a second number, select SELECT-NUM-2 and type in the second number. Otherwise leave this field blank. You have the option of copying the first number to the second number. You can always reselect either number and reenter it
3. When both number fields are displaying the correct numbers, press DIAL. Your call will be placed
4. If you were storing the number into a preset, you would first press the preset - the old numbers stored there would be displayed. You would then type in the new numbers. When finished, press STORE. The numbers you entered will be stored into the previously selected preset.

Status:

There is a serial data output from the module - STATUS\$ - This contains status information about the state of the codec and the call in progress. It will be updated every time a reportable event occurs. The text will remain in the field for ten seconds, then the field will be cleared. If you would like to update the field, or would like the text to always remain in the field, you can drive the STATUS-UPDATE input with an oscillator to resend the last message every ten seconds. STATUS\$, if used, should be routed to a SDPM symbol for display on a touchpanel.

Ascend Prefix:

If you would like to be able to select an Ascend profile prefix (#001, etc.) to be placed before the number being dialed, but you don't want to type it in before every phone number, or store it into presets, you can use the ASCEND-PROFILE input. This input takes an analog value from 0 to 20. It should be driven with an INIT symbol. If you do not

want a prefix on your phone number, then this input should be set to analog 0 with an INIT symbol. If you do want a prefix, use an INIT symbol to set the input to a number between 1 and 20. Whatever number you use will appear in the Ascend prefix before the rest of your phone number.

Teleos Suffix:

If you would like to be able to select a Teleos suffix to be appended to the end of your phone number, you can use the TELEOS-... inputs. If no suffix is wanted, put a 1 on the TELEOS-NONE input, and 0 on the other TELEOS inputs. If you do want a Teleos suffix, put a 0 on the TELEOS-NONE input. You can use buttons to select the desired suffix from the four remaining TELEOS inputs on the module.

**CRESTRON
HARDWARE:**

CNXCOM,
ST-COM

**SETUP OF
CRESTRON
HARDWARE:**

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:**

6.30

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:

- | | | |
|-------------------------------|---|--|
| SELECT-NUM1 | D | Selects the first number for entry |
| SELECT-NUM2 | D | Selects the second number for entry |
| KEY-0-9,*,#,CLEAR,BACK | D | Allows the corresponding digits to be entered into the selected number field |
| COPY-NUM1-NUM2 | D | Copies the contents of the first number to the second number field |
| CLEAR-NUM1-NUM2 | D | Clears both number fields simultaneously |
| | | Stores both number fields into the previously |

STORE	D	selected preset
KEY-ENTER	D	Functions similar to the enter button on the PictureTel keypad. If enter is pressed after entering the first number, the second number will be selected. If enter is pressed after entering the second number, the number will be dialed.
DIAL	D	Sends the previously entered number to the codec for dialing
PRESET-1-20	D	Used to recall presets 1-20. After recalling a preset, DIAL must be pressed to send it to the codec.
PRESET-CLEAR	D	Clears the interlock maintaining the last preset chosen
DISCONNECT	D	Disconnect the current video call
ASCEND-PROFILE	A	Used to specify an Ascend prefix - Driven with an INIT symbol
TELEOS-NONE	D	Designates that no Teleos suffix should be used if a 1 is placed on this input.
TELEOS-56*1*0	D	Activated from a button press to select the suffix shown to be added to the phone numbers
TELEOS-64*1*0	D	Activated from a button press to select the suffix shown to be added to the phone numbers
TELEOS-56*6*7	D	Activated from a button press to select the suffix shown to be added to the phone numbers
TELEOS-64*6*8	D	Activated from a button press to select the suffix shown to be added to the phone numbers
INITIALIZE-PSETS	D	Clears all the presets
INITIALIZE-CODEC	D	Initializes the codec
SHUT-DOWN-CODEC	D	Puts the codec into standby mode
AUTO-ANSWER-ON	D	1 or 0 on input to designate auto answer mode
AUTO-ANSWER-OFF	D	1 or 0 on input to designate auto answer mode
SINGLE-MONITOR	D	1 or 0 on input to designate single/dual monitor
DUAL-MONITOR	D	1 or 0 on input to designate single/dual monitor
MODE-DIALED	D	1 or 0 on input to designate dial/non-dial mode
MODE-NON-DIALED	D	1 or 0 on input to designate dial/non-dial mode
PIP-ON-?	D	If high, PIP will be turned on upon initialization. It can be connected the the PIP-ON-FB output from a separate module for PIP state tracking
STATUS-UPDATE	D	Resends the last status message to the STATUS\$ string
PTEL-RX\$	S	Serial data string routed from a CNXCOM port
DIGITS	P	Maximum number of digits to enter per number field. (for example, 24)
FEEDBACK:		
SELECT-NUM1-FB	D	Indicates that first number was selected

SELECT-NUM2-FB	D	Indicates that second number was selected
NUM1\$	S	Serial data string containing first number - to be routed to the serial section of a touchpanel definition
NUM2\$	S	Serial data string containing second number - to be routed to the serial section of a touchpanel definition
STATUS\$	S	Serial data string containing status information - definition
PRESET-1-20-FB	D	Indicates the last preset selected
PORT-LOCKED	D	Feedback from codec indicating port is locked
NET-CALL-CONNECT	D	Call progress indicating the networks are communicating
COD-CALL-CONNECT	D	Call progress indicating the codecs are connected from codec indicating a graphic is being received
G-RX-COMPLETE	D	Status from codec indicating the graphic has been a graphic is being transmitted
G-TX-COMPLETE	D	Status from codec indicating the graphic has been incoming call
CALL-DISCON	D	Pulse when call disconnects normally
CALL-DISCONNECT	D	Pulse when call disconnects abnormally
INIT-CODEC-BUSY	D	Indicates that initialization is in progress
NO-COMM-ERROR	D	Pulses if no communications exist between Crestron and PictureTel when an initialization is attempted
INIT-ERROR	D	Pulses if an error occurs in the initialization process
PTEL-TX\$	S	Serial data string to be routed to the CNXCOM card

OPS USED FOR TESTING: 3.17.31

COMPILER USED FOR TESTING: SimplWindows Version 1.20.04

SAMPLE PROGRAM: PTELTSTE

CN-PD20B - Original

CN-PD20C - Dropped Workshop Support, Corrected "signal without driving source" in SimplWindows

CN-PD20D - Corrected problem with large DELAY symbol used for initialize presets function. Corrected problem with codec initialization routine where COMM-ERROR or INIT-ERROR would occur as soon as initialization was started.

REVISION HISTORY:

CN-PD20E - Corrected problem with CRESNET ERROR when a DIAL was pressed with both number fields blank