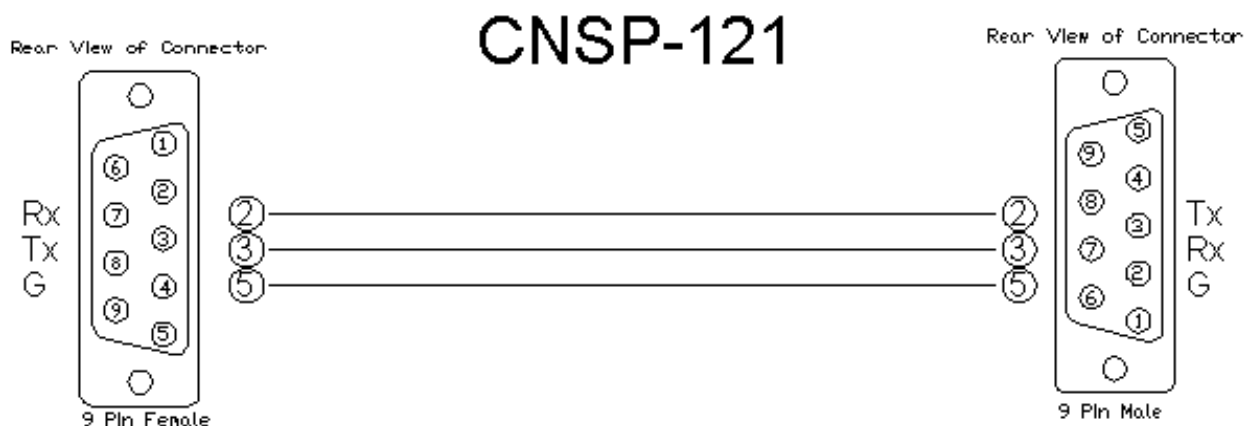


**Partner: DirecTV**  
**Model: HR21PRO**  
**Device Type: DVR**



## GENERAL INFORMATION

<b>SIMPLWINDOWS NAME:</b>	DirecTV HR21PRO v1.0
<b>CATEGORY:</b>	Tuner
<b>VERSION:</b>	1.0
<b>SUMMARY:</b>	This module provides control and feedback for a DirecTV HR21PRO DVR.
<b>GENERAL NOTES:</b>	This module provides control for the DirecTV HR21PRO. It also provides true feedback. This module is SystemBuilder compatible
<b>CRESTRON HARDWARE REQUIRED:</b>	C2I-COM6, C2-COM2/3, CNXCOM-6, CNX-COM2, ST-COM
<b>SETUP OF CRESTRON HARDWARE:</b>	RS232 Baud: 9600 Parity: None Data Bits: 8 Stop Bits: 1
<b>VENDOR FIRMWARE:</b>	N/A
<b>VENDOR SETUP:</b>	None
<b>CABLE DIAGRAM:</b>	CNSP-121



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## CONTROL:

Power_On/Off/Toggle	D	Pulse to turn the unit on or off.
Standby	D	Pulse to put the unit into standby mode.
Active	D	Pulse to take the unit out of standby mode.
Digit_0-9	D	Pulse to select digits 0 through 9.
Dash	D	Pulse to select dash function.
Enter	D	Pulse to select enter function.
Channel_Up/Down	D	Press to select channel up or down.
Previous_Channel	D	Pulse to go to previous channel.
Play	D	Pulse to select play or pause function.
Stop	D	Pulse to select stop function
Pause	D	Pulse to pause current video.
Rewind	D	Pulse to rewind at increasing speeds.
Fast_Forward	D	Pulse to fast forward at increasing speeds.
Replay	D	Pulse to jump back 6 seconds and play video from there.
Advance	D	Pulse to jump ahead in recording.
Record	D	Pulse for record function.
List	D	Pulse to display playlist.
Guide	D	Pulse to display program guide.
Info	D	Pulse to display program info.
Back	D	Pulse to go back to previous screen.
Menu	D	Pulse to display menu.

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<b>Up</b>	D	Press to select up function.
<b>Down</b>	D	Press to select down function.
<b>Left</b>	D	Press to select left function.
<b>Right</b>	D	Press to select right function.
<b>Select</b>	D	Pulse to select any highlighted item.
<b>Exit</b>	D	Pulse to exit menu.
<b>Red</b>	D	Pulse to jump 12 hours back in guide, or other functions depending on screen being displayed.
<b>Green</b>	D	Pulse to jump 12 hours forward in guide, or other functions depending on screen being displayed.
<b>Blue</b>	D	Pulse to display the Mini Guide in live TV, or other functions depending on screen being displayed.
<b>Yellow</b>	D	Pulse to bring up TV options list, or other functions depending on screen being displayed.
<b>Format</b>	D	Pulse to display different screen formats available.
<b>Reboot</b>	D	Pulse to reboot unit.
<b>Enable_User_Entry</b>	D	Pulse to enable the ability to control via unit front panel or IR remote.
<b>Disable_User_Entry</b>	D	Pulse to disable the ability to control via unit front panel or IR remote.
<b>Channel_Number_Request</b>	A	Send a channel number request as an analog value to this input to trigger a direct channel request.
<b>From_Device</b>	S	Serial signal to be routed from a 2-way serial com port.

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**FEEDBACK:**

Transponder	A	Analog value indicating which transponder the unit has switched to.
Signal_Quality	A	Analog value indicating signal quality.
Current_Channel	S	Indicates the current channel.
Primary_Type	S	Indicates the current primary signal type.
Audio_Type	S	Indicates the current audio type.
Current_Date	S	Indicates the current date.
Current_Time	S	Indicates the current time.
Day_Of_Week	S	Indicates current day of the week.
To_Device	S	Serial signal to be routed to a 2-way serial com port.

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**Model: HR21PRO**  
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**TESTING:**

<b>OPS USED FOR TESTING:</b>	4.000.226
<b>SIMPL WINDOWS USED FOR TESTING:</b>	2.10.32
<b>CRES DB USED FOR TESTING:</b>	20.00.013.00
<b>SYMBOL LIBRARY USED FOR TESTING:</b>	567
<b>SAMPLE PROGRAM:</b>	DirecTV HR21PRO v1.0 Demo PRO2
<b>REVISION HISTORY:</b>	V. 1.0 – Original release.