

**Partner: Denon**  
**Model: DBP-4010UD**  
**Device Type: Bluray/DVD Player**



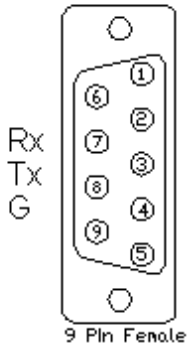
## GENERAL INFORMATION

<b>SIMPLWINDOWS NAME:</b>	Denon DBP-4010UD v1.0.umc
<b>CATEGORY:</b>	Transport Decks
<b>VERSION:</b>	1.0
<b>SUMMARY:</b>	Controls all standard function on a Denon DBP-4010UD SA-CD / Blu-ray / DVD-Audio&Video / CD Universal Player
<b>GENERAL NOTES:</b>	<p>This module provides control for most functions of the Denon DBP-4010UD player. It also provides true feedback for several functions. It should also control the DVD-A1UDCI, DBP-2010CI and DBP-A100.</p> <p><b>NOTE:</b> Parity mode of RS-232 MUST BE set to EVEN in the port settings of your program for proper communication</p>
<b>CRESTRON HARDWARE REQUIRED:</b>	C2I-COM, C2COM-2/3, ST-COM 2 Series Processor
<b>SETUP OF CRESTRON HARDWARE:</b>	RS232 Baud: 9600 Parity: <b>EVEN</b> Data Bits: 8 Stop Bits: 1
<b>VENDOR FIRMWARE:</b>	N/A
<b>VENDOR SETUP:</b>	<b>IMPORTANT!</b> If "Power Saving Standby" is set, the player ignores RS-232 commands. To avoid this, go to the Setup Menu, then Other Setup and set "Power Savings" mode to either Normal Standby or Quick Start Mode.

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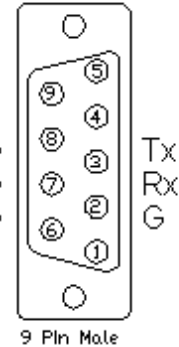

**CABLE DIAGRAM:**

Rear View of Connector



# CNSP-121

Rear View of Connector


**CONTROL:**

Power_On	D	Pulse to turn the power on.
Power_Off	D	Pulse to turn the power off.
Power_Toggle	D	Pulse to turn the power on and off.
Play	D	Pulse to start the disc playing
Stop	D	Pulse to stop the disc playing.
Pause	D	Pulse to pause playback.
Slow/Search_Fwd	D	Pulse to cycle through the forward search speeds.
Slow/Search_Rev	D	Pulse to cycle through the reverse search speeds.
Next_Chapter/Track	D	Pulse to step to the next chapter or track.
Prev_Chapter/Track	D	Pulse to step to the previous chapter or track.
Tray_Open/Close	D	Pulse to open and close the tray.
Setup	D	Pulse to enter and exit the setup menu.
Top_Menu	D	Pulse to go to the Top menu on the DVD.

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<b>Menu</b>	D	Pulse to go to the root DVD menu or Pop Up Menu of DVD Disc
<b>Return</b>	D	Pulse to return to the previous menu level.
<b>Up</b>	D	Pulse to move up through the menus.
<b>Down</b>	D	Pulse to move down through the menus.
<b>Left</b>	D	Pulse to move left through the menus.
<b>Right</b>	D	Pulse to move right through the menus.
<b>Enter</b>	D	Pulse to select the currently highlighted menu item.
<b>Audio_Next</b>	D	Pulse to select the next audio language or dialog on the DVD
<b>Audio_Previous</b>	D	Pulse to select the previous audio language or dialog on the DVD
<b>Secondary_Audio_Next</b>	D	Pulse to select the next Secondary audio language or dialog on the DVD
<b>Secondary_Audio_Previous</b>	D	Pulse to select the previous Secondary audio language or dialog on the DVD
<b>Subtitle_Next</b>	D	Pulse to select the next subtitle language on the DVD
<b>Subtitle_Previous</b>	D	Pulse to select the previous subtitle language on the DVD
<b>Subtitle_Primary_Style_Next</b>	D	Pulse to select the next subtitle primary style
<b>Subtitle_Primary_Style_Previous</b>	D	Pulse to select the previous subtitle primary style
<b>Subtitle_Secondary_Next</b>	D	Pulse to select the next secondary subtitle language on the DVD
<b>Subtitle_Secondary_Previous</b>	D	Pulse to select the previous secondary subtitle language on the DVD
<b>Angle_Next</b>	D	Pulse to step to the next angle
<b>Angle_Previous</b>	D	Pulse to step to the previous angle
<b>SA-CD_Stereo_Layer</b>	D	Pulse to select to the SA-CD Stereo Layer
<b>SA-CD_Multi-Ch_Layer</b>	D	Pulse to select to the SA-CD Multichannel Layer
<b>SA-CD_CD_Layer</b>	D	Pulse to select to the SA-CD CD Layer
<b>HDMI-Mode_Cycle_(remote)</b>	D	Pulse to step to next HDMI Mode
<b>HDMI_Resolution_Cycle_(remote)</b>	D	Pulse to change to the next HDMI Resolution

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Prog/Direct_Button_(remote)	D	Pulse to change the Program Mode On or Off
Clear_(remote)	D	Pulse to clear programmed tracks
Call_(remote)	D	Pulse to display Programmed tracks on the display
Display_(remote)	D	Pulse to Display information on the screen
Repeat_(remote)	D	Pulse to press the Repeat Button
Repeat_A-B_(remote)	D	Pulse to press to the Repeat A-B Button
Page+_(remote)	D	Pulse to step to the Page + Button
Random_(remote)	D	Pulse to change the Random Play Mode
Marker	D	Pulse to step to the Marker function
Zoom	D	Pulse to step to the Zoom Function
Dimmer_(remote)	D	Pulse to step to the Dimmer Button
Picture_Adjust_(remote)	D	Pulse to step to the Picture Adjust Button
Pure_Direct_(remote)	D	Pulse to step to the Pure Direct Button
Color_RED_Button_(remote)	D	Pulse to step to the RED Button
Color_GREEN_Button_(remote)	D	Pulse to step to the GREEN Button
Color_BLUE_Button_(remote)	D	Pulse to step to the BLUE Button
Color_YELLOW_Butto_(remote)	D	Pulse to step to the YELLOW Button
Mode_Cycle/Toggle_(remote)	D	Pulse to press the Mode Button to call various functions
SD/Disc	D	Pulse to switch between SD card or Disc Playback
Search_(remote)	D	Pulse to change search mode between Title, Chapter or Time
Disc_Layer_Select	D	Pulse to change the layer of the disc.
Surround_Mode_Cycle/Toggle	D	Pulse to cycle through Surround Modes.
From_Device	S	Serial signal to be routed from a 2-way serial COM port

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**FEEDBACK:**

<b>Power_Is_On</b>	D	High to indicate that the power is on.
<b>Power_Is_Off</b>	D	High to indicate that the power is off.
<b>Playing</b>	D	High to indicate that the disc is playing.
<b>Stopped</b>	D	High to indicate that the disc is stopped.
<b>Stopped/Resume</b>	D	High to indicate that the disc is stopped in resume mode.
<b>Paused</b>	D	High to indicate that the disc is paused.
<b>Slow/Searching_Forward</b>	D	High to indicate that the disc is in slow or search forward mode.
<b>Slow/Searching_Reverse</b>	D	High to indicate that the disc is in slow or search reverse mode.
<b>Menu_Is_Active(DVD_Only)</b>	D	High to indicate that the DVD menu is active. This applies to DVDs only.
<b>Language_Text</b>	S	Serial signal indicating the currently selected audio language.
<b>Language_Is_*</b>	D	High to indicate that the currently selected audio language is *
<b>Subtitle_Text</b>	S	Serial signal indicating the currently selected subtitle language.
<b>Subtitle_Is_*</b>	D	High to indicate that the currently selected subtitle language is *
<b>Angle_Value</b>	A	Analog value indicating the currently selected camera angle. To be displayed using a digital gauge on a touch panel.
<b>Title_Value</b>	A	Analog signal indicating the currently playing title number. To be displayed using a digital gauge on a touch panel.
<b>Chapter/Track_Value</b>	A	Analog signal indicating the currently playing chapter or track number. To be displayed using a digital gauge on a touch panel.
<b>Time_Value</b>	A	Analog signal indicating the current time value. To be displayed using a timer on a touch panel.
<b>System_Status_Text</b>	S	Serial signal indicating the current system status.
<b>Please_Wait</b>	D	High to indicate that the DVD player is processing a command.
<b>Disc_Type_Is_*</b>	D	High to indicate that the current disc type is *
<b>Audio_Ch_is_*</b>	D	High to indicate that the current audio channel type is *.

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Audio_Fmt_is_*	D	High to indicate that the current audio format is *
To_Device	S	Serial signal to be routed to a 2-way serial com port.

## TESTING:

OPS USED FOR TESTING:	4.001.1012
SIMPL WINDOWS USED FOR TESTING:	3.01.22.00
CRES DB USED FOR TESTING:	24.00.039.00
DEVICE DATABASE:	32.00.019.00
SYMBOL LIBRARY USED FOR TESTING:	648
SAMPLE PROGRAM:	Denon_DBP-4010UD_Demo_Program_v1.0
REVISION HISTORY:	V. 1.0 – Original Release