

Partner: Marantz
Model: UD9004
Device Type: Bluray/DVD Player



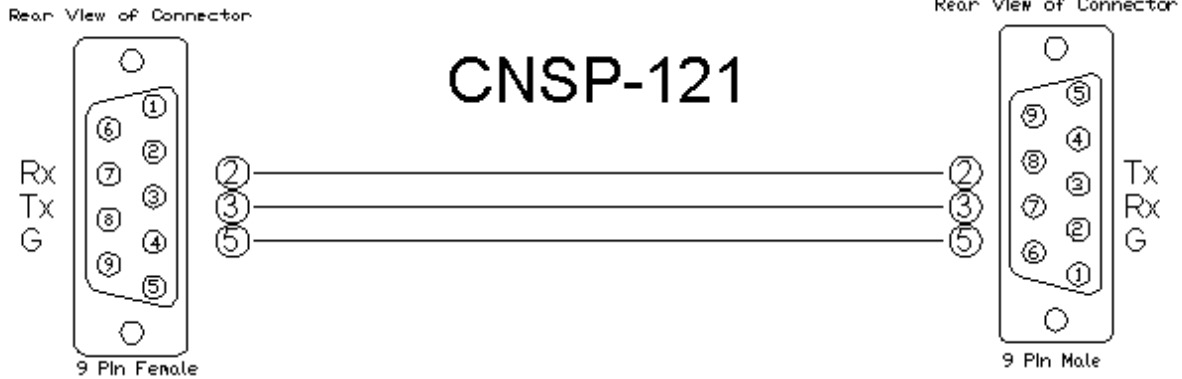
GENERAL INFORMATION

SIMPLWINDOWS NAME:	Marantz UD9004 v1.0.umc
CATEGORY:	Transport Decks
VERSION:	1.0
SUMMARY:	Controls all standard function on a Marantz UD9004 SA-CD / Blu-ray / DVD-Audio&Video / CD Universal Player
GENERAL NOTES:	<p>This module provides control for most functions of the Marantz UD9004 player. It also provides true feedback for several functions.</p> <p>NOTE: Parity mode of RS-232 MUST BE set to EVEN in the port settings of your program for proper communication</p>
CRESTRON HARDWARE REQUIRED:	C2I-COM, C2COM-2/3, ST-COM 2 Series Processor
SETUP OF CRESTRON HARDWARE:	RS232 Baud: 9600 Parity: EVEN Data Bits: 8 Stop Bits: 1
VENDOR FIRMWARE:	N/A
VENDOR SETUP:	IMPORTANT! 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, HDMI Control Mode or Quick Start Mode.

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CABLE DIAGRAM: Please note the diagram below may not reflect the device you are writing the module for.



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

Power_Is_On	D	High to indicate that the power is on.
Power_Is_Off	D	High to indicate that the power is off.
Playing	D	High to indicate that the disc is playing.
Stopped	D	High to indicate that the disc is stopped.
Stopped/Resume	D	High to indicate that the disc is stopped in resume mode.
Paused	D	High to indicate that the disc is paused.
Slow/Searching_Forward	D	High to indicate that the disc is in slow or search forward mode.
Slow/Searching_Reverse	D	High to indicate that the disc is in slow or search reverse mode.
Menu_Is_Active(DVD_Only)	D	High to indicate that the DVD menu is active. This applies to DVDs only.
Language_Text	S	Serial signal indicating the currently selected audio language.
Language_Is_*	D	High to indicate that the currently selected audio language is *
Subtitle_Text	S	Serial signal indicating the currently selected subtitle language.
Subtitle_Is_*	D	High to indicate that the currently selected subtitle language is *
Angle_Value	A	Analog value indicating the currently selected camera angle. To be displayed using a digital gauge on a touch panel.
Title_Value	A	Analog signal indicating the currently playing title number. To be displayed using a digital gauge on a touch panel.
Chapter/Track_Value	A	Analog signal indicating the currently playing chapter or track number. To be displayed using a digital gauge on a touch panel.
Time_Value	A	Analog signal indicating the current time value. To be displayed using a timer on a touch panel.
System_Status_Text	S	Serial signal indicating the current system status.
Please_Wait	D	High to indicate that the DVD player is processing a command.
Disc_Type_Is_*	D	High to indicate that the current disc type is *
To_Device	S	Serial signal to be routed to a 2-way serial com port.

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**TESTING:**

OPS USED FOR TESTING:	4.001.1012
SIMPL WINDOWS USED FOR TESTING:	2.11.27
CRES DB USED FOR TESTING:	21.02.016.00
DEVICE DATABASE:	26.00.005.00
SYMBOL LIBRARY USED FOR TESTING:	648
SAMPLE PROGRAM:	Marantz UD9004 v1.0 Demo
REVISION HISTORY:	V. 1.0 – Original Release