

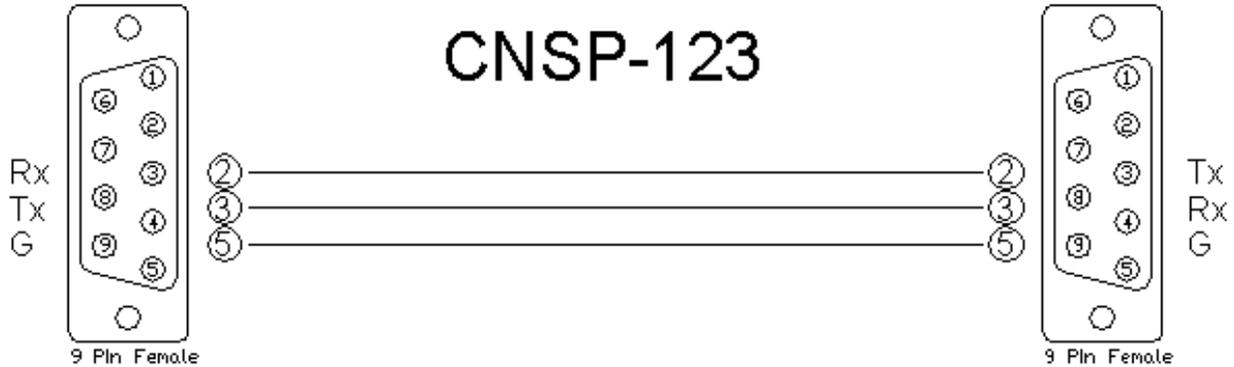
**Partner: Marantz**  
**Model: DV9500**  
**Device Type: DVD Player**



## GENERAL INFORMATION

<b>SIMPLWINDOWS NAME:</b>	DV9500_MJI_1-00
<b>CATEGORY:</b>	Transport Decks
<b>VERSION:</b>	1.0
<b>SUMMARY:</b>	Controls the Marantz DV9500 DVD player and provides true feedback
<b>GENERAL NOTES:</b>	<p>This module provides all controls for the Marantz DV9500 DVD player. It also provides true feedback.</p> <p>There are three layers of feedback. It is possible turn on and off any combination of these layers. This module provides commands to do this.</p> <p>NOTE: THE DV9500 SHIPS FROM THE FACTORY WITH ECONOMY MODE ENABLED. IF YOU DO NOT DISABLE ECONOMY MODE, YOU WILL NOT BE ABLE TO TURN THE DV9500 ON USING RS232.</p>
<b>CRESTRON HARDWARE REQUIRED:</b>	CNX-COM, C2-COM, ST-COM
<b>SETUP OF CRESTRON HARDWARE:</b>	RS232 Baud: 9600 Parity: None Data Bits: 8 Stop Bits: 1
<b>VENDOR FIRMWARE:</b>	RS-232C Ver: 1.01 BE Ver: B0.33B Panel ucom Ver: P0.80 DSP Ver: A0401
<b>VENDOR SETUP:</b>	YOU MUST DISABLE THE ECONOMY MODE. THERE IS A COMMAND ON THIS MODULE TO DO THAT. YOU MUST FIRST TURN THE DV9500 ON MANUALLY. THEN YOU NEED TO PULSE THE ECONOMY MODE DISABLE INPUT.
<b>CABLE DIAGRAM:</b>	CNSP-123

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**CONTROL:**

<b>Power_on/stby/toggle</b>	D	Pulse to turn the DV9500 on and off. The DV9500 will NOT turn on if the Economy Mode is ENABLED.
<b>Tray_open/close/toggle</b>	D	Pulse to open and close the tray.
<b>Play/stop/pause/ skip+/skip-</b>		
<b>Fast_serach+/-</b>	D	Pulse to control the transport functions.
<b>slow_search+/-</b>		
<b>Repeat</b>	D	Pulse to cycle through the repeat functions.
<b>Repeat_ab</b>	D	Pulse to cycle through the repeat AB functions.
<b>Program</b>	D	Pulse to active the program function.
<b>Random</b>	D	Pulse to cycle through the random functions.
<b>Step</b>	D	Pulse to activate the step function.
<b>Marker</b>	D	Pulse to set the marker.
<b>Page+/-</b>	D	Pulse to step through the pages.
<b>Search</b>	D	Pulse to activate the search function.
<b>Setup</b>	D	Pulse to activate the setup function.
<b>Topmenu</b>	D	Pulse to go to the top menu.
<b>Menu</b>	D	Pulse to turn the menu on and off
<b>Subtitle</b>	D	Pulse to turn the subtitles on and off.
<b>Audio</b>	D	Pulse to activate the audio function.
<b>OSD</b>	D	Pulse to turn the On Screen Display on and off.
<b>Front_Display_*</b>	D	Pulse to set the brightness of the DV9500's front panel.
<b>Num*</b>	D	Pulse to enter track or chapter numbers. The num+10 is need for tracks or chapters above 9. Pulse the num+10 once for 10 to 19, twice for 20 to 29.

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Up/Down/Left/Right/Enter/return/clear	D	Pulse to navigate through the menus.
Sacd_*	D	Pulse to change the sacd mode. The input sacd_mdoe will cycle through the different modes.
Headphone_mode	D	Pulse to change the headphone mode.
Tv_system	D	Pulse to change the TV system.
Progressive/interlace	D	Pulse to change between progressive and interlaced video output.
Aspect_*	D	Pulse to set the aspect ratio.
Video_mute_on/off/toggle	D	Pulse to turn the video mute on and off.
Zoom	D	Pulse to activate the zoom function.
Hdmi*	D	Pulse to set the hdmi mode.
Condition_memo	D	Pulse to condition the memory.
Autopoweroff_*	D	Pulse to enable or disable autopower off.
IR_code*	D	Pulse to set the DVD player to IR code 1 or IR code 2.
Eco_mode_*	D	Pulse to enable or disable the ECONOMY mode. ECONOMY MODE MUST BE ENABLED TO ALLOW THE CRESTRON PROCESSOR TO TURN THE DV9500 ON.
Auto_status_mode*	D	<p>Pulse to set the auto status mode.</p> <p>Mode 0 is for no auto status.</p> <p>Mode 1 is layer 1 only.</p> <p>Mode 2 is layer 2 only.</p> <p>Mode 3 is layer s only.</p> <p>Mode 4 is layers 1 &amp; 2 only.</p> <p>Mode 5 is layers 1 &amp; 3 only.</p> <p>Mode 6 is layers 2 &amp; 3 only.</p> <p>Mode 7 is all three layers. This is the default.</p>
Rx\$	S	Serial signal to be routed from a 2-way serial com port.

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**FEEDBACK:**

Power_on/stby_fb	D	High to indicate the current power state. LAYER 1 FEEDBACK.
Tray_open/close_fb	D	High to indicate whether the tray is opened or closed. LAYER 1 FEEDBACK.
Toc_fb	D	High to indicate that a disc is loading. LAYER 1 FEEDBACK.
Play/stop/pause_fb Fast_search+/-_fb Slow_search+/-_fb	D	High to indicate the current state of the transport deck. LAYER 1 FEEDBACK.
Disc*_fb	D	High to indicate the type disc that is in the tray. LAYER 1 FEEDBACK.
Repeat_off/1/all_fb	D	High to indicate the current state of the repeat function. LAYER 2 FEEDBACK.
Repeat_a-b_off/a-set/a-b_set_fb	D	High to indicate the current state of the repeat AB function. LAYER 2 FEEDBACK.
Random_off/on_fb	D	High to indicate the current state of the random function. LAYER 2 FEEDBACK.
Time\$	S	Serial signal indicating the time into the disc. LAYER 3 FEEDBACK.
Track_ana	A	Analog value indicating the current track. This is for audio discs. LAYER 2 FEEDBACK.
Chapter_ana	A	Analog value indicating the current chapter. This is for videodiscs. LAYER 2 FEEDBACK.
Title_ana	A	Analog value indicating the current title number. LAYER 2 FEEDBACK.
Group_ana	A	Analog value indicating the current group.
Front_disp_off/dim/on_fb	D	High to indicate the current state of the brightness of the DV9500's front panel. LAYER 2 FEEDBACK.
Sacd*_fb	D	High to indicate the current sacd mode. LAYER 2 FEEDBACK.
Tv_sys*_fb	D	High to indicate the current TV system. LAYER 2 FEEDBACK.
Progressive/interlaced_fb	D	High to indicate that the output is either progressive or interlaced. LAYER 2 FEEDBACK.
Aspect*_fb	D	High to indicate the currently selected aspect ratio. LAYER 2 FEEDBACK.
Video_mute_on/off_fb	D	High to indicate the current state of the video mute. LAYER 2 FEEDBACK.

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Hdmi_on/off_fb	D	High to indicate the current state of the HDMI. LAYER 2 FEEDBACK.
Autopowroff*_fb	D	High to indicate the current state of the autopower off function. LAYER 2 FEEDBACK.
Ir_code*_fb	D	High to indicate the current IR code state. LAYER 2 FEEDBACK.
Eco_mode*_fb	D	High to indicate the current ECONOMY mode state. ECONOMY MODE MUST BE DISABLED TO ALLOW THE CRESTRON PROCESSOR TO TURN THE DV9500 ON. LAYER 2 FEEDBACK.
Auto_status_mode*_fb	D	High to indicate the level of automatic feedback.
Tx\$	S	Serial signal to be routed to a 2-way serial com port.

## TESTING:

<b>OPS USED FOR TESTING:</b>	PRO2: 3.137 CNMSX-Pro: 5.14.02
<b>COMPILER USED FOR TESTING:</b>	2.05.22
<b>SAMPLE PROGRAM:</b>	Marantz DV9500 Demo
<b>REVISION HISTORY:</b>	V. 1.0