

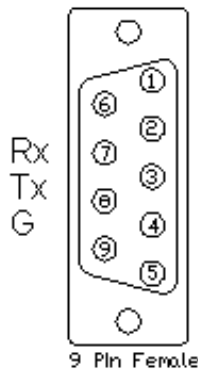
Partner: Yamaha
Model: BD-S1900
Device Type: Bluray Player



GENERAL INFORMATION

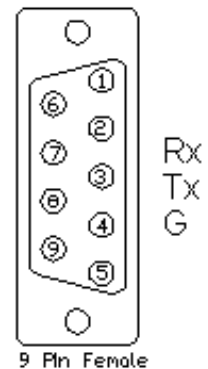
SIMPLWINDOWS NAME:	Yamaha BD-S1900
CATEGORY:	Transport Decks
VERSION:	1.0
SUMMARY:	This module provides control and feedback of the Yamaha BD-S1900.
GENERAL NOTES:	<p>Pulse the "Initialize" command to get initial power and disc playing status of the player.</p> <p>Hold "poll" high to enable true feedback about elapsed playtime/current track and title information.</p> <p>Please note: the "repeat" command does not by itself cycle through the available repeat modes. It brings up a menu on screen after which the cursor left, right and enter keys must be used to select the desired repeat mode using a monitor. There are no discrete repeat mode commands.</p>
CRESTRON HARDWARE REQUIRED:	C2I-COM6, C2-COM2/3, CNXCOM-6, CNX-COM2, ST-COM
SETUP OF CRESTRON HARDWARE:	RS232 Baud: 9600 Parity: None Data Bits: 8 Stop Bits: 1
VENDOR FIRMWARE:	V113
VENDOR SETUP:	None
CABLE DIAGRAM:	CNSP-124

Rear View of Connector



CNSP-124

Rear View of Connector



Partner: Yamaha
Model: BD-S1900
Device Type: Bluray Player


CONTROL:

Power_On/Off/Toggle	D	Pulse to turn the power on and off.
Tray_Open/Close	D	Pulse to open and close the disc tray.
Play/Stop/Pause	D	Pulse to play, stop and pause the disc. (Note: pause is a play/pause toggle).
Search_+/-	D	Pulse to search forward and reverse. During play this will cycle through the fast search speeds (there are 1X, 2X, and 3X). During pause these will cycle through slow motion playback speeds).
Skip_+/-	D	Pulse to skip to the next or previous chapter.
Jump_10_sec_-/30sec +	D	Pulse to skip ahead or forward by x number of seconds.
Menu	D	Pulse to bring up disc main menu
Pop_Up_Menu *	D	Pulse to bring up Bluray pop up menu while playing a movie.
Setup	D	Pulse to enter or exit setup mode
Cursor_Up/Down/Left/Right	D	Pulse to move on screen menu cursor around screen.
Return	D	Pulse to navigate out of current menu screen.
Enter	D	Pulse to select highlighted on screen item.
Exit	D	Pulse to cancel out of setup or disc menu.
Keypad *	D	Pulse to enter a specific track or chapter number.
Repeat	D	Pulse to bring up repeat mode on screen menu.
Repeat_Off	D	Pulse to cancel any repeat mode and return to normal playback.
Audio	D	Pulse to cycle through available language/audio tracks on disc.
Angle	D	Pulse to cycle through available camera angles on disc.
Clear	D	Pulse to erase any previous entries for search functions, usually keypad 0-9 presses.
Red/Green/Blue/Yellow	D	Pulse to send bluray's multi-function red, green, blue and yellow commands.

Partner: Yamaha
Model: BD-S1900
Device Type: Bluray Player



P_in_P	D	Pulse to display secondary video.
On_Screen	D	Pulse to display or clear current disc information to the video display.
Status	D	Pulse to display current player status.
Dimmer	D	Pulse to cycle through 3 available brightnesses for front panel display (Max, medium, and minimum).
Pure_Direct_Mode	D	Pulse to turn Yamaha's "pure direct" mode on and off.
Initialize	D	Pulse to get initial power status from player. Useful to pulse right after processor boots up.
Poll	D	Latch high to enable polling for elapsed time, and real-time changes to current chapter and track on disc.
From_Device	S	Serial signal to routed from a 2-way serial com port.

FEEDBACK:

Power_Is_On/Off	D	High to indicate current power status
Powering_Off_Please_Wait	D	High to indicate that device is powering off. This takes about 15 seconds, during which any commands issued will be ignored.
Powering_On_Please_Wait	D	High to indicate that device is powering on. This takes about 35 seconds.
Tray_Is_Open/Closed	D	High to indicate that the disc tray is opened or closed.
Is_Playing/Stopped/Paused	D	High to indicate playback status of player.
Is_Searching +/-	D	High to indicate that player is in one of 3 search forward or backward speeds.
Is_In_Slow_Motion	D	High to indicate that playback is in slow motion
Disc_Type_Text	S	Gives text indication of the current type of disc inserted, if any.
No_Disc_Is_Loaded	D	High to indicate that there is no disc inserted in tray
Disc_Is_CD/DVD/Bluray	D	High to indicate type of disc currently in tray
Status_Text	S	Gives text description of current player status (Powering on/off, tray ope/close, reading disc, and powering off)

Partner: Yamaha
Model: BD-S1900
Device Type: Bluray Player



Track_Number	A	Decimal value of currently playing track (CD) or Title (DVD/Bluray)
Chapter_Number	A	Decimal value of currently playing chapter on DVD/Bluray
Time	A	Provides decimal value of elapsed playtime time of current disc.
Repeat_Mode_Text	S	Gives text description of current repeat mode.
Repeat_Mode_Is_Off	D	High to indicate that repeat mode is currently off.
In_A-B/Track/Disc_Repeat_Mode	D	High to indicate current repeat mode
Front_Panel_Dim_Text	S	Gives text description of brightness level of front panel LCD.
Pure_Direct_Mode_is_On/Off	D	High to indicate that player is currently in "pure direct" mode.
To_Device	S	Serial Signal to be routed to a 2-way serial com port.

PARAMETER:

Polling Frequency	Determines how often command is issued requesting chapter/track/time information from player. "Maximum" is once per second and will provide real elapsed time feedback. "Medium" will only poll once every 5 seconds. This is useful if elapsed playback time is not desired but changes in currently playing chapter and track are, "Minimum" setting polls once per minute.
--------------------------	---

TESTING:

OPS USED FOR TESTING:	4.001.0012
SIMPL WINDOWS USED FOR TESTING:	2.12.39.00
CRES DB USED FOR TESTING:	21.05.007.00
DEVICE DATABASE:	27.05.003.00
SYMBOL LIBRARY USED FOR TESTING:	664
SAMPLE PROGRAM:	Yamaha BD-S1900 v1.0 Demo PRO2.smw
REVISION HISTORY:	V 1.0 – Original Release