

# Arcam AV860 v1.1.4

## GENERAL INFORMATION

**SIMPLWINDOWS NAME:**

Arcam AV860 v1.1.4

**CATEGORY:**

Processor

**VERSION:**

1.1.4

**SUMMARY:**

Controls all of the standard functions and provides true feedback via RS232.

**GENERAL NOTES:**

This module will control all of the standard functions on an Arcam AV860 Surround Processor via RS232.

The unit provides true feedback. Functions provided include main, surround mode selection, surround speaker level adjustments, and tuner band/preset selection. It is necessary to pulse the initialize once to synchronize unit's settings with the controller. This initialization takes approximately 8 seconds.

**Note:** For surround mode selection, certain selections are only valid while certain Sources are selected. So choosing a particular surround mode may actually cause a slightly different mode to be activated on the Arcam system. However, since true feedback is provided, the actual surround mode currently active will be reflected on the output of this module.

**SETUP OF CRESTRON HARDWARE:**

Crestron Controller with 2 way serial port (only 3 wires required).

- RS232
- Baud Rate: 38400
- Data Bits: 8
- Stop Bits: 1
- Parity: None
- No Flow Control
- Cable Type: Null Modem (Crossover)

Control - Zone 1:		
Power_On/Off/Toggle	D	Pulse to turn power on or off.
Input*	D	Pulse to set audio input.
Video_Selection*	D	Pulse to set video input.
Volume Up/Down	D	Pulse to turn volume up or down.
Volume#	A	Directly set volume.
Mute On/Off Toggle	D	Pulse to mute or unmute.
OSD On/Off	D	Pulse to turn OSD on or off.
Display L1/L2/Off	D	Pulse to set front panel brightness level.
Headphone_Override Clear/Set	D	Pulse to clear or set headphone override.
Direct_Mode On/Off	D	Pulse to turn direct mode on or off.
Surround_Mode*	D	Pulse to select surround mode.
Select Analogue/Digital/HDMI	D	Pulse to set analogue, digital or HDMI input.
Output HDMI_1/HDMI_2/HDMI_1_&_2	D	Pulse to set HDMI output configuration.
Home	D	Pulse to select home menu.
Menu	D	Pulse to select menu.
Navigate Up/Down/Left/Right/OK	D	Pulse to navigate menus.
Key*	D	Pulse to enter key 0-9.
Skip_Back	D	Pulse to skip back.
Rewind	D	Pulse to rewind.
Stop	D	Pulse to stop.
Play	D	Pulse to play.
Pause	D	Pulse to pause.
Fast_Foward	D	Pulse to fast forward.
Skip_Foward	D	Pulse to skip forward.
Red	D	Pulse to select red.
Green	D	Pulse to select green.
Yellow	D	Pulse to select yellow.
Blue	D	Pulse to select blue.
FM_Search +/-	D	Pulse to search FM up or down.
FM_Scan +/-	D	Pulse to scan FM up or down.
DAB_Scan	D	Pulse to scan DAB.
Treble +/-	D	Pulse to set treble up or down.
Bass +/-	D	Pulse to set bass up or down.
Room_EQ On/Off	D	Pulse to set Room EQ on or off.
Dolby_Volume On/Off	D	Pulse to set Dolby Volume on or off.
Dolby_Leveller +/-/Off	D	Pulse to set Dolby Leveller up, down or off.
Dolby_Calibration_Offset +/-	D	Pulse to set Dolby Calibration Offset up or down.
Balance +/-	D	Pulse to set balance up or down.
Subwoofer_Trim +/-	D	Pulse to set subwoofer trim up or down.
Lipsync_Delay +/-	D	Pulse to set lipsync up or down.
Compression High/Medium/Off	D	Pulse to set compression level.
Subwoofer_Stereo_Trim +/-	D	Pulse to set subwoofer stereo trim up or down.
Reboot	D	Pulse to reboot unit.
Heartbeat	D	Pulse to check unit is still connected.
Initialize	D	Pulse to poll the unit for all of its settings.

{{TCP/IP_Client_>>_Connect-F}}	D	To be connected to the “Connect_F” input on the TCP/IP client definition.
{{TCP/IP_Client_>>_status}}	A	To be connected to the “status” input on the TCP/IP client definition that will be communicating with the unit being controlled.
{TCP/IP_Client_>>_RX\$}}	S	To be connected to the “RX\$” input on the TCP/IP client definition that will be communicating with the unit being controlled.

Feedback – Zone 1:		
Unit_Is_In_Standby	D	Indicates that the unit is in standby.
Unit_Power_On	D	Indicates that the unit is on.
Current_Source*	D	Indicate the current audio input.
Video_Selection*	D	Indicate the current video input.
Volume_Fb	A	Displays the volume level.
Mute_Is On/Off	D	Indicates the mute status.
OSD_Is On/Off	D	Indicates the OSD status.
Front_Panel_Brightness L1/L2/Off	D	Indicates the front panel status.
Headphone_Override On/Off	D	Indicates the headphone override status.
Direct_Mode On/Off	D	Indicates the direct mode status.
Surround_Mode*	D	Indicates the current surround mode.
Decode_Mode*	D	Indicates the current decode mode.
Video_Output_Resolution*	D	Indicates the current video resolution.
Incoming_Audio_Stream_Format*	D	Indicates the current audio stream format.
Incoming_Audio_Channel_Configuration*	D	Indicates the current audio channel configuration.
Audio_Sample_Rate*	D	Indicates the current audio sample rate.
Audio_In_Use Analogue/Digital/HDMI	D	Indicates the audio in status.
HDMI_Output 1/2/1 & 2	D	Indicates the HDMI output configuration.
Menu_Is_Open - No/Setup/Trim/Bass/Treble/Sync/Sub/Tuner Network/USB	D	Indicate the current menu selected.
Tuner_Preset_Number_Mhz	A	Displays the Tuner Mhz.
Tuner_Preset_Number_Khz	A	Displays the Tuner Khz.
FM_Scanning	D	Indicates the FM tuner is scanning.
DAB_Scanning	D	Indicates the DAB tuner is scanning.
Current_Tuner_Preset_Number	A	Displays the current tuner preset number.
FM_Genre	S	Displays the current FM Genre.
RDS_Information	S	Displays the current RDS information.
DAB_Station	S	Displays the current DAB Station.
Program_Type/Category	S	Displays the current Program Type/Category.
DLS/PDT_Information	S	Displays the current DLS/PDT Information.
Preset_Details	S	Displays the current Preset Details.
Network_Playback_Status	S	Displays the current Network Playback Status.

Treble_Fb	A	Displays the current treble level.
Bass_Fb	A	Displays the current bass level.
Room_EQ_Is On/Off	D	Indicates the Room EQ is on or off.
Dolby_Volume_Is On/Off	D	Indicates the Dolby Volume is on or off.
Dolby_Leveller	A	Displays the Dolby Leveller level.
Dolby_Volume_Calibration_Offset	A	Displays the Dolby Volume Calibration Offset.
Balance	A	Displays the balance level.
Subwoofer_Trim_Fb	S	Displays the subwoofer trim level.
Lipsync_Delay_Fb	S	Displays the lipsync delay time.
Compression_Is High/Medium/Off	D	Indicates the compression is high/medium or off.
Subwoofer_Stereo_Trim_Fb	S	Indicates the subwoofer stereo trim level.
Heartbeat_Received_Fb	D	Indicates a heartbeat response has been received.
Rebooting	D	Indicates the unit is rebooting.
Initialize_Busy	D	Indicates the unit is initializing.
Connected	D	Indicates the unit is connected.
Connection_Status_Text	S	Indicates the connection status.
{{Connect_>>_TCP/IP_Client}}	D	To be connected to the "Connect" output on the TCP/IP client definition that will be communicating with the unit being controlled.
{{TX\$_>>_TCP/IP_Client}}	S	To be connected to the "TX\$" output on the TCP/IP client definition that will be communicating with the unit being controlled.

Control - Zone 2:		
Power_On/Off/Toggle	D	Pulse to turn power on or off.
Input*	D	Pulse to set audio input.
Volume Up/Down	D	Pulse to turn volume up or down.
Volume#	A	Directly set volume.
Mute On/Off Toggle	D	Pulse to mute or unmute.
FM_Search +/-	D	Pulse to search FM up or down.
FM_Scan +/-	D	Pulse to scan FM up or down.
DAB_Scan	D	Pulse to scan DAB.
Initialize	D	Pulse to poll the unit for all of its settings.
{{TCP/IP_Client_>>_Connect-F}}	D	To be connected to the "Connect_F" input on the TCP/IP client definition.
{{TCP/IP_Client_>>_status}}	A	To be connected to the "status" input on the TCP/IP client definition that will be communicating with the unit being controlled.
{{TCP/IP_Client_>>_RX\$}}	S	To be connected to the "RX\$" input on the TCP/IP client definition that will be communicating with the unit being controlled.

<b>Feedback:</b>		
Unit_Is_In_Standby	D	Indicates that the unit is in standby.
Unit_Power_On	D	Indicates that the unit is on.
Current_Source*	D	Indicate the current audio input.
Volume_Fb	A	Displays the volume level.
Mute_Is On/Off	D	Indicates the mute status.
Tuner_Preset_Number_Mhz	A	Displays the Tuner Mhz.
Tuner_Preset_Number_Khz	A	Displays the Tuner Khz.
Current_Tuner_Preset_Number	A	Displays the current tuner preset number.
RDS_Information	S	Displays the current RDS information.
DAB_Station	S	Displays the current DAB Station.
Program_Type/Category	S	Displays the current Program Type/Category.
DLS/PDT_Information	S	Displays the current DLS/PDT Information.
Initialize_Busy	D	Indicates the unit is initializing.
Connected	D	Indicates the unit is connected.
Connection_Status_Text	S	Indicates the connection status.
{{Connect_>>_TCP/IP_Client}}	D	To be connected to the “Connect” output on the TCP/IP client definition that will be communicating with the unit being controlled.
{{TX\$_>>_TCP/IP_Client}}	S	To be connected to the “TX\$” output on the TCP/IP client definition that will be communicating with the unit being controlled.