

ARCAM

ARCAM | AVA-Series | IP & RS232

Driver Installation Guide

by Janus Technology

Product Manual

For full hardware documentation, refer to the manufacturer's product documentation for the ARCAM AVA-Series range: <https://www.arcam.co.uk/>

Summary

This driver provides two-way control of the ARCAM AV Receiver and Processor models listed below over the network on TCP port 50000, or over RS232 at 115200 8-N-1.

A separate driver is supplied for each model, and for each connection type - one for network control and one for RS232.

Features

The following features are supported:

- Power on/off/toggle, per zone
- Volume set (0-100), increment/decrement, and maximum volume limit, per zone
- Mute on/off/toggle, per zone
- Input selection across all 18 sources, per zone
- Now Playing metadata (source, track, artist) for the streaming sources
- Tone control: bass, treble, subwoofer trim, sub stereo trim
- Lip sync delay adjustment

- Room EQ (Dirac) slot selection
- Upmixer mode selection, separately for 2-channel and multichannel material
- HDMI output routing
- Front panel display brightness
- Navigation, transport and menu keys, relayed as simulated handset presses
- Follow Zone 1, setting Zone 2 to mirror Zone 1 rather than take its own source
- Polled feedback for power, volume, mute, input, sample rate and incoming audio format

Supported Products

The following ARCAM products are supported. Each has its own driver file - the model is so import the file that matches the unit.

Model	Zones	Notes
ARCAM AVA15	1	No Zone 2. No Auro-3D or IMAX Enhanced decoding.
ARCAM AVA25	2	Zone 2. Auro-3D and IMAX Enhanced supported.
ARCAM AVA35	2	Zone 2. Auro-3D and IMAX Enhanced supported.
ARCAM AVP45	2	Pre-amplifier/processor (no amplifier channels). Zone 2. Auro-3D and IMAX Enhanced supported.

Configuration

Prior to setting the driver up in URC Accelerator, ensure that the ARCAM unit is fully configured and works correctly. Refer to the manufacturer's documentation linked above.

Below is a list of points to check during configuration:

- Ensure the unit is running the latest firmware version
- The device must be accessible on the network with a static IP address, or a DHCP reservation
- Control must be enabled on the unit and the unit must be reachable on port 50000
- Verify that the device is reachable on the network before proceeding
- For RS232 control, connect the unit's RS232 port to a serial port on the URC base station. The unit's serial settings are fixed at 115200 8-N-1 with no flow control.

Inputs

Input commands.

Label	Type
HDMI 1	Video + Audio
HDMI 2	Video + Audio
HDMI 3	Video + Audio
HDMI 4	Video + Audio
HDMI 5	Video + Audio
HDMI 6	Video + Audio
HDMI 7	Video + Audio
Digital 1	Audio Only
Digital 2	Audio Only
Digital 3	Audio Only
Digital 4	Audio Only
Analogue 1	Audio Only
Analogue 2	Audio Only
Analogue 3	Audio Only
Analogue 4	Audio Only
HDMI ARC	Audio Only
Bluetooth	Audio Only (internal source)
Network Streaming	Audio Only (internal source)

Bluetooth and Network Streaming are built-in sources. They are the only two sources that report Now Playing metadata.

In addition, Zone 2 accepts **followZone1**, which makes Zone 2 mirror whatever Zone 1 is playing instead of selecting a source of its own. It is rejected on Zone 1.

Driver Installation

Two driver files are supplied for each model: one for network control, with *_IP* in its name, and one for RS232 control, with *_Serial*. Import the file that matches both the unit and the way it is connected.

Importing the Driver into URC Accelerator

To add the driver to an existing URC Accelerator project:

1. Open your existing TC3 System file in URC Accelerator.
2. Select **File -> Import TCM File**.
3. In the *Total Control Module Library Import* window, browse to and select the .tc2 file for your model, then click **Open**.
4. When the *Import Total Control Module* window appears, click **Import**.
5. Once the import is complete, close URC Accelerator.
6. Reopen URC Accelerator to ensure the driver has been correctly loaded into the driver database.

This driver is now available for use within your project.

Adding the Driver

To add the driver:

- Select a room to place the driver.
- Choose **Program -> 4. Add Other Devices**.
- Ensure **Select Database** is set to *My*.
- Ensure that **Select Module Type** is set to *IP Database* for a network driver, or *RS232 Database* for a serial one.
- Set **Select Category** to *AVR's And Amplifiers*.
- Choose **ARCAM** from the *Select Brand* list.
- From the **Select Model** list, choose the entry matching your unit - the serial drivers are listed with *Serial* after the model name.
- Click **Add Selected Modules** to add the device to the room.

4.Add Other Devices

5.Base Station Setup

6.Network Setup

7.Properties Manager

8.AV Inputs & Outputs

9.URC Audio Setup

10.URC Subsystems

11.Edit User Interfaces

12.Macro Editing

13.Punch Through

14.Themes & Graphics

Download

Download & Test

System Designer

Step 4 Add Non-URC Devices - Zone1

a.Add Selected Modules

b.Create New Driver

c.Test

d.Total Control Modules

1.Select Room :

Zone1

Previous

Next

2.Select Database :

URC

My

3.Select Module Type :

IP Database

4.Select Category :

AVR's and Amplifiers

5.Select Brand :

ARCAM
ARCAM RADIA
AUDIO CONTROL
AUDIOCONTROL
JBL
JBL SYNTHESIS
ORIGIN ACOUSTICS

6.Select Model :

AVA15
AVA25
AVA35
AWP45

7.View Function List

Power

POWER ON
POWER OFF
POWER

Volume/Mute Functions

VOLUME +
VOLUME -
MUTE ON
MUTE OFF
MUTE

Input Functions

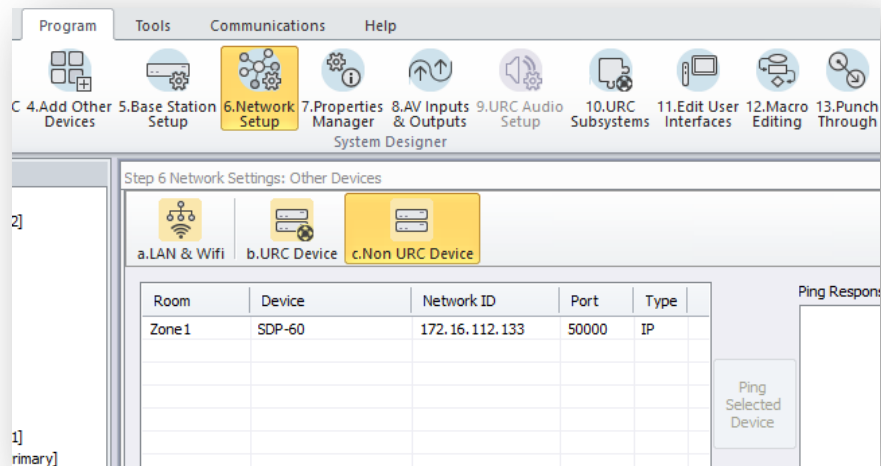
HDMI 1
HDMI 2
HDMI 3
HDMI 4
HDMI 5
HDMI 6
HDMI 7
Digital 1

Configuring the Driver

Network Connection

The IP address of the ARCAM unit must be provided within URC Accelerator.

- Choose **Program -> 6. Network Setup**.
- Select the **Non URC Device** tab.
- For each instance of the driver, provide the correct IP address in the table.
- The port should be set automatically to **50000**. All control traffic uses this single TCP port.



Serial Connection

An RS232 driver has no IP address to enter. Instead, tell URC Accelerator which base station serial port the unit is wired to.

- Choose **Program -> 5. Base Station Setup**.
- Select the **IR & RS232** tab.
- For each instance of the driver, select the port the unit is connected to.

The unit's serial settings are fixed at **115200 baud, 8 data bits, no parity, 1 stop bit**, with no flow control. The driver uses these, so there is nothing to enter.

User Interface

The driver provides a custom user interface for the Phone and TRC-1080 clients, showing Now Playing, a source list and a settings screen. It is added automatically when the driver is placed in a room.

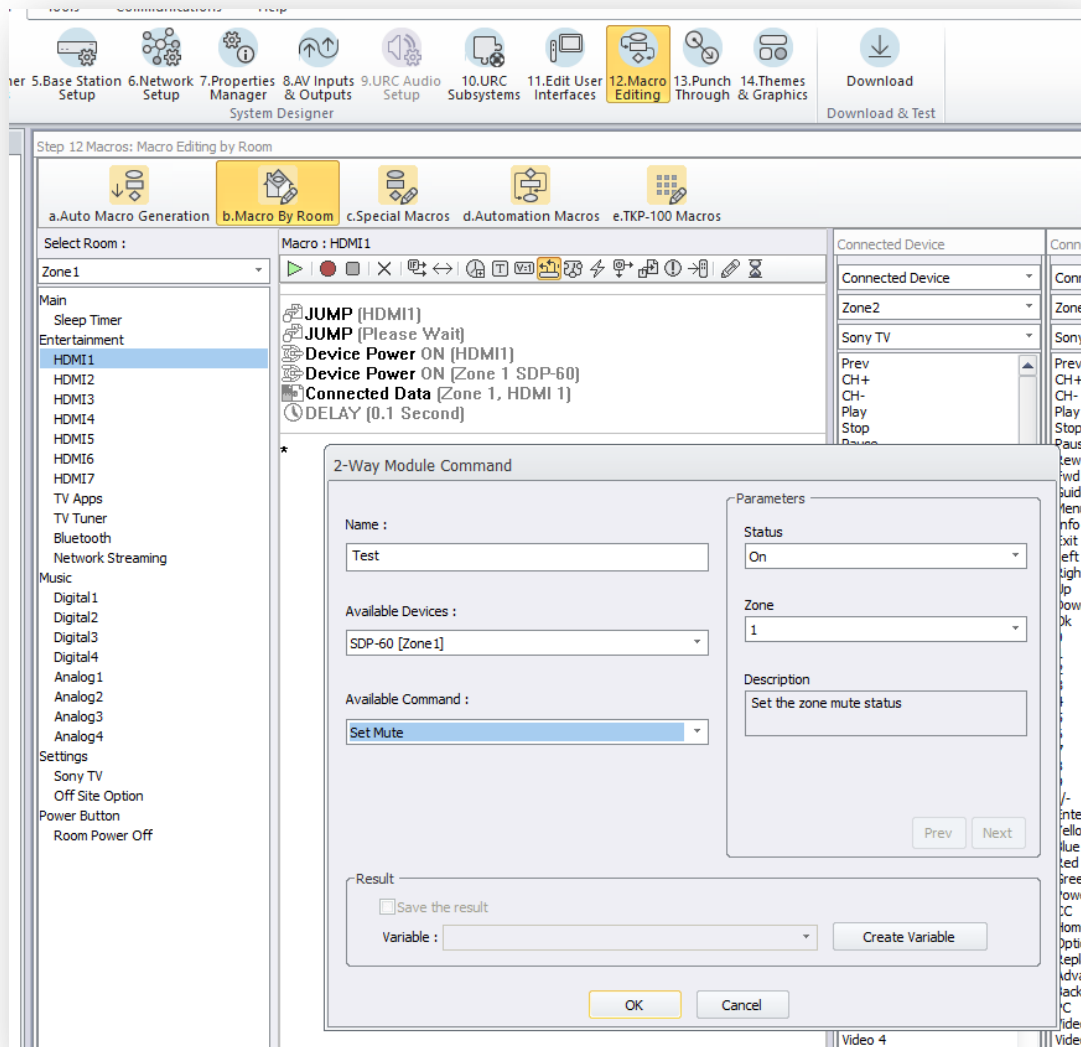
To control the driver from buttons of your own instead, configure macros:

- Choose **Program -> 10. Edit User Interfaces**
- Select the **Edit Menus by Room** tab
- Add a new sub menu to the main menu by dragging from the *3. Add New Items* panel into the *Main Menu* panel for the room
- Double-click *Empty* to rename the menu

- Drag *new macro* from 3. *Add New Items* into the sub-menu panel to add a button

Macros

Ensure system macros are generated by configuring **Program -> 12. Macro Editing** appropriately. View available buttons by selecting the Edit Macro By Room tab and choosing the appropriate room.



Events

The following events can be used as triggers for automation macros:

Event Label	Parameter Condition	Parameter Value	Scope
Power Changed	Equal To	On / Off	per zone
Mute Changed	Equal To	On / Off	per zone
Input Changed	Equal To	any input reference (see Inputs)	per zone
Bluetooth Status Changed	Equal To	Connected / Not Connected	whole unit

Adding an Event

Go to **Program -> 12. Macro Editing** and select the *Edit Automation Macros* tab. Click **Add Macro** and provide a name and group, then configure the event trigger:

- Select the ARCAM Raia driver from the *Available Devices* drop-down.
- Select an event label from the Events table above.
- Set the **Condition** parameter to *Equal To*.
- Set the **Value** parameter to the desired state, for example On for Power Changed.
- Set the **Zone** parameter to the zone you want to watch.

Click **OK**. Once added, attach commands to the macro to automate actions.

Edit Automated Settings

Name :
Input

Available Devices :
SDP-60 [Zone1]

Available Event :
Input Changed

Option :

Parameters

Condition:
Equal To

Value:
hdmi1

Zone:
1

Description:
Trigger when the zone's active input changes.
Zone Z's input can't always be read back from the

Prev Next

OK Cancel

Punch Through

The driver supports volume and mute control via URC Punch Through:

- Choose **Program -> 13. Punch Through**
- Select the Room
- Select the Driver
- In the *Volume, Mute* drop-down, select the ARCAM output for control

The screenshot shows a software window titled "Step 13 Punch Through". It is divided into two main sections: "Punch To :" and "Punch From :".

Punch To :

- 1. Select Room :** A dropdown menu showing "Zone1".
- 2. Select Device :** A list box containing the following items: Main, HDMI1, HDMI2, HDMI3, HDMI4, HDMI5, HDMI6, HDMI7, TV Apps, TV Tuner, Bluetooth, Network Streaming, Digital1, and Digital2. The "Main" item is currently selected.
- Below the list box are two buttons: "Select All" and "Clear All".

Punch From :

- Volume, Mute :** A dropdown menu showing "Zone 1 SDP-60 (Zone1)".
- Channel :** A dropdown menu showing "[None]".
- Navigation :** A dropdown menu showing "[None]".
- Play, Stop.. :** A dropdown menu showing "[None]".
- Number (0-9, +10, ENT) :** A dropdown menu showing "[None]".

At the bottom center of the window is a "Save" button.

Downloading the Driver

Once configuration is complete, download the revised system to your URC base station via **Program -> Download System**.

Support

If you require support for this driver, please create a support ticket at:
<https://support.janustechtechnology.co.uk/>

Please provide the following information with your request:

- Driver version you are using.
- Platform you are using, e.g. URC Accelerator version.
- Firmware version of your ARCAM unit.
- Firmware version of your URC control system.
- A full description of the issue you are having and how to recreate the issue.

Troubleshooting

- Confirm that the correct IP address is entered into the IP address field.
- Confirm that the correct port is entered (default 50000).
- Check that the ARCAM unit can be pinged from the control system controller. If the ping fails, check your network configuration and cabling.
- Confirm the unit is powered on and not in a deep standby mode that disables its network interface.
- Only one control connection to port 50000 is available at a time. If another controller or a diagnostic tool holds the connection, the driver cannot connect.
- We recommend using a static IP address. Ensure this is done in either the device or router.
- On an RS232 driver, confirm the port selected under **Program -> 5. Base Station Setup** on the **IR & RS232** tab is the one the unit is wired to. The unit runs at 115200 8-N-1 and this is not adjustable at either end.

Change Log

Version 1.0.0.x - Initial Release

Release Date: 28th August 2026

Notes:

- Initial IP & Serial driver

Firmware Versions

MCU 1056-114-131

Net CR443GP_4048_2

DSP 1.52

BT 2.18

HDMI 343-04-49-13-04

LCD 265-13

Exceptions

Product Firmware version is not being populated within the driver feedback.

Zone 2 input feedback does not update when the input source is changed externally (outside of the driver).

Mute, SubTrim, HdmiArc & NetworkStreaming Source Switching, NavigateDown and Bass controls are not functional.

Disclaimer of Liability

The company shall not be liable for any issues, damages, or costs that may arise from the use of our driver software. While we strive to ensure that all versions of our drivers are thoroughly tested and function correctly, we cannot guarantee that they are entirely free from defects.