

Companion Driver Support

Firmware 2.300 or newer - 10/1/2008

Scene Lighting: Optimally 2-way and self-interrogating for state/change where possible.

Integrated bi-directional support: **green** = excellent support

- **UPB** – direct powerline control via direct RS-232 or serial adapter.
 - **Features:** all, dimmer sliders, scene control, whole home load state feedback
 - **Note: Upstart setup required.**
- **Lutron RadioRA** - including **Chronos**
 - **Features:** all, dimmer sliders, load delays, all on/off, security lights option,
- **Lutron Homeworks** - **D48 & H48 systems** – **Ethernet support only.**
 - **Features:** all , etc
- **Vantage Qlink** – full interrogation of labels, with multiple masters - [details](#).
 - **Features:** all, keypads, favorites, scenes, dimmer sliders, thermostats
- **C-Bus** – direct serial COM2 support only - [details](#)
 - **Features:** all, large-home room context defaults, dimmer sliders, Home Page all on/all off or 1-9 button dimmer/scenes w/labels
- **HAI Lumina panel** – serial support of all features
 - **Features:** all, etc
- **HAI Lighting** – direct serial or Ethernet adapter support for HAI / OnQ HMS-connected lighting.
 - **Features:** all, Home Page all on/off or 1-9 buttons for scenes dimmers and loads w/ custom labels, dimmers, scenes, loads, delays, timed on/off.
- **HAI supported lighting** – **Companion supported the following system via HAI.**
 - **SmartHome X10** powerline control (one way)
 - **Leviton X-10** powerline control (one way)
 - **OnQ ALC** hardwired
 - **Lutron Radio RA** retrofit friendly
 - **Lutron Grafik Eye**
 - **Lightolier Compose** powerline control
 - **UPB** powerline control, on/off, dimming (links not supported)
 - **Centralite** hardwired
 - **EDT CAT5** hardwired with no central controller
 - **Z-Wave** retrofit-friendly
 - **Litetouch 5000LC, standard and compact units**
- **Comfort Lighting** – direct serial or serial adapter support via Cytech's Comfort panel. Home Page all on/off module.
 - **C-Bus 220V**
 - **EIB** lighting
 - **X10**
 - **Dynalite**
 - **HPM iControl**
- **Vantage nFusion** - 3rd party driver **not pre-loaded**

Distributed Audio/Video: Multiple source / zone control with treble, bass, volume, mute, power and status. Generic Component allows for 1-way IR / Serial control of any component. Some may have example settings files Support can forward via email.

Integrated Support for Multi-room Preamps: green = best

- **Russound** CA Series stackable [including RNET](#), + tuner metadata. SMS supported via browser and direct wheel bar button. iPod not supported yet.
- **NuVo Concerto series** including **Nuvonet**, macro control, zone vol-source-pwr
- **NuVo Essentia series** including **Nuvonet**
- **Xantech** ZPR-68 and MRC-88
- **Xantech** MRAUDIO8X8 (same as MRC w/o video)
- **ADA Suite 16, and Suite 8** large matrix switches A+V together
- **Netstreams Digilinx** – including **IR-connected** components and **Polk XM Tuner** – note: no media server metadata is sent from Digilinx
- **NuVo Grand Concerto** zone, vol, pwr, «» ≥ || <>. IR sources via adapter. No metadata.
- **HAI HiFi** – supported using HAI macros
- **Generic Component** - support for IR and 1-way serial - [details](#) **AudioMate** also supports separate amps in each zone controlling their own components via IR.
- **Niles ICS** – one zone per 232G adapter incl: Escient, Tuner and iPod support
 - **Note:** this is a 3rd party driver and **not pre-loaded**.
- **Opus** – 3rd party driver **not pre-loaded**. Escient, iPod, Tuner, can be configured.

Audio Components: Media audio streamers and assorted A/V gear

Integrated IP/Serial Support for Audio Components:

- **B&K series II:** AVR-305, 307 Ref 30. May not support some features of new B&K gear
- **Polk Audio:** **XM Tuner:** (Alpha) via Netstreams Digilinx with metadata

Support via browser - [details](#)

- **Barix Exstreamer** MP3 media player
- **Barix Annunicom** IP intercom
- **Media servers: Russound SMS, Escient**
- **Much more** – too many to list

Digital Media Servers: Expose large music lists, sort by Album, Artist, Genre and Song (if supported) with jukebox and easy queue functionality.

Integrated IP Support in AudioMate

- **Escient Fireball** – including iPod dock content, metadata & album art
- **iPod Fireball FP1 iPod dock** – via IP including album art metadata. **WARNING:** do not set iPod / Escient to share each others media.
- **IMerge** S2000/M1000Sound Servers and variants below on Xivalink protocol
 - **Xantech** XMusic Server
 - **Revox** M57 Multi-Room Audio Server

- **Migrants** DH9300 Music Server
- **Living Control** Music Box
- **Linn**
- **Meridian** 880
- **Speakercraft**
- **ReQuest IQ** - will be supported by a custom add-on with the 2.4 firmware

Integrated standalone Add-on

- **ReQuest:** ARQ and Nitro (Add-on Snap-in only, not via AudioMate) [details](#)

Browser Control direct URL set from the Home Page or AudioMate home page to access these components via the browser - [details](#)

- **Russound SMS** HTML control and content
- **Escient Fireball** HTML control and content (also integrated)
- **Many others** -

IR / Serial - based Components: Manage IR / serial components that do not require feedback and can work within confines of component buttons provided (DVD, TUNER, etc)

- **Global Cache** (NAVA) 18" and 6" Ethernet to IR and serial
- **Global Cache** IR learner

Security Panels: Serial controllable security panels

Integrated Direct Serial Support

- **ELK M1 and EZ8:** Direct serial or Ethernet
- **GE Security:** Advent Navigator via Sena Ethernet converter only
- **GE Security:** Concord via SENA only

Support via Browser Control – [details](#)

- **Ademco APEX:** via their ICM module
- **Ademco Vista:** via their ICM module

Automation Panels: Management of appliances, scene lighting, HVAC, and security. Plug and play interoperability with Companion controllers.

Integrated Direct Support:

- **HAI:** All Omni panels via RS-232/485 or Ethernet to serial. This is a VERY easy and powerful control interface including event logging, battery levels, flags, zone status, etc.
 - OmniPro II *Ethernet* connection is NOT SUPPORTED
- **ELK M1, EZ8 - Direct serial or Ethernet - OnQ ALC control -**
- **OnQ:** HMS panels via RS-232 or Ethernet to serial adapter
- **Comfort/Cytech:** lighting, thermostats, security. Doorphone - [details](#)
- **HomeVision:** Custom add-on

Support via Browser toggle - [details](#)

- **Barix Barionet** IP control of relays, sensors, inputs, 232/485

Environment: Communicating thermostats, humidifiers, shade controls, weather stations

Integrated Direct IP/Serial Support

- **Aprilaire:** Excellent for humidification. No setbacks
- **Vantage** thermostat: via Vantage lighting panel
- **HAI HVAC** - HAI Thermostats and contact closure for simple management of drapes via HAI Omni and OnQ HMS control panels
- **Comfort HVAC** - **Honeywell** Smartfit thermostats (UK)
- **HAI serial** thermostat - Master only, direct serial, single zone only. Ideal for MDUs
- **Clipsal CBus** thermostat - Master only, custom control add-on. BETA
- **ESI** IP-based shade/motor controls (**RP protocol only**) including:
 - **Draper**
 - **Castech**
 - **Solar Shading Systems**
 - **SM Automatic**
 - **Silent Gliss USA**
 - **BTX Window Automation**
 - **Leg Motorized Systems**
 - **Motorized Shading Systems**
- **Somfy** Custom add-on. Call sales or support for more information.

Direct Ethernet Support

- **Weatherhawk** with Weatherhawk IP adapter – direct serial not supported. Distances are generally greater than direct serial range.

Support via Browser control - [details](#)

- **FatSpaniel** HTML sites for solar PV
- **Accuwater** irrigation control
- **Honeywell Envirocom:** via their ICM module

IP Cameras:

- **Convergent BlueNote Camera Server:** 1 channel, (4-chn coming)
- **Channel Vision Camera Server:**
- **Axis 241 Camera Server:** tested 241 stream details below
- **Axis** Digital IP cameras (Pan - tilt - zoom not yet supported)
- **Pixord:** Stream details below
- **Panasonic;** tested HCM 311A (Pan - tilt - zoom **not supported**)
- Almost any streaming MPEG3 IP camera or web-images like radar, traffic feeds work

SideKick third-party touchmonitors:

Integrated Direct USB

- Lilliput, Xenarc USB touchscreens
- ELO, 3M, Planar, egalax touch displays w/USB touch

Network Peripherals/Extenders: Peripherals that convert and extend control over simple CAT5 and Ethernet

Ethernet converters

- NAVA [Global Cache](#) for serial (9600 baud) and IR
- SENA for serial (19600 baud)

Lifestyle Applications: Downloadable and snap'd-in as needed.

- **WebCams:** (Monitor) for live Radar, Weather, Traffic cams, Forecast feeds
- **Digital Internet Radio:** pre-set streaming channels plus capability to add/delete.
- **Internet Time:** Precision time across all global time zones
- **Home Page Manager** - various standard *and* custom modules can now be used
- **Remote Access:** Home-Away-From-Home access from anywhere in the world with your PC or iPhone or any device that can run TightVNC. CD included with each order.

Custom Control Templates

- **CineMate** – full blown theater template, various features, setup for 8 sources + display, fully customizable and a great spot to begin any control GUI. \$Fee
- **HAI control** – fully skinnable and available for translation. \$Fee
 - **Security, HVAC, Lighting**
- **CBus lighting** \$Fee
- **UPB lighting** \$Fee
- **AudioMate** – fully skinnable and available for translation \$Fee
- **Commercial Matrix** – 8x8 with control of 2 IR sources (Sat, DVD, etc) \$Fee
- **ESI Shade Control – BETA** \$Fee
- **Jandy Pool Control -** \$Fee
- **Matrix** –HD matrix router for a variety of I/O's and control for DVD sources. \$Fee
- **Home Page and Custom Icon template** \$Fee

Custom / Commercial Control Solutions: via [Macromedia](#) Flash-based Animate with proprietary extensions. Custom control “movies” can be designed from our downloadable templates or created from scratch.

- **Full feature:** taking over the entire control appliance experience
- **Cell mode:** as a sub movie to Companion and accessed via a side button (wheel bar)
- **Home Page regions:** mini-movie in one of the 3 home page regions

Custom Control GUI Working Samples -

- **Garage Doors – Board room - HomeVision – Ocelot – Pianodisc – Russound**
- **Leax – Exstreamer – Vantage – Nuvo – EIB – Niles – Opus – Cbus - Somfy**

Technical Notes

Lighting Notes

Vantage: (Qlink)

Room teleporting: user can select any keypad (station) to emulate; we interrogate all station name labels in a list, allow user to scroll/select a station and display an array of buttons/indicators that are arranged in a similar configuration to the actual keypad. When you touch the button, it acts as if the button was pressed. Individual buttons are not labeled. Hierarchical context for large homes offers floor/room matrix.

Sync: The indicator on the screen keypad shows the same status as the indicator on the keypad so both are always in sync.

Multiple Masters supported

Local loads: Labels are read/displayed for individual loads with sliders, on/off.



Lutron RA:

With Chronos 64 loads are available

UPB direct:

Direct serial to Companion or SENA. No NAVA (global cache) support

CBUS:

C-Bus firmware 4.3.00 or greater system requirement. Use earlier versions at your own risk. We only support **direct serial connections**, and COM2 works best (if a C15 or C8) no NAVA or Sena support due to Clipsal's serial library.

A/V notes:

Generic Component:

Capabilities: allows installer to add any serial or IR A/V-related component that does **NOT** require 2-way feedback. Installer must also work within the confines of the various component buttons provided i.e. DVR, SAT, DVD, CD, TUNER, etc.

Preamp IR Networks:

Capabilities: Russound RNET, Nuvo NuvoNet and Speakercraft Eztools allow for seamless control of IR components connected to the respective preamps. Companion supports this feature but setup is via the respective preamp or associated software. In the case of SpeakerCraft **the software is only the BETA form of EZTools on our website.**

Media Server Notes:

Request media servers can be directly accessed from either the main home page or from the AudioMate home page. If via AudioMate then you **MUST** create a simple macro in the Macro editor to open the ARQ Add-on as follows: Here's a technique that works: create

a macro that contains this one line of code: **animate animate-it auto audio_request**
Then in AudioMate's Source Menu Settings, assign that macro to one of the buttons.

Browser-based control options:

The embedded Firefox browser is a lightweight web-browser with a nav bar offering toggle back to home control (Companion) or font re-sizing, on-screen keyboard, multiple tabs (pages), bookmarks and more. In a Companion control application, installers can insert a URL directly from either the Home Page or from the AudioMate Home Page. Thus ideal for directly accessing media servers not already supported like Russound SMS or Escient or any other standard HTML-based webserver like Accuwater and soon Windows Media Center (as long as Active X control is not required).

Camera Video Server notes:

BlueNet Server: default IP 192.168.1.80

Stream - http://cam_server_ip/cgi-bin/image.cgi?control=1&image=1&id=admin&passwd=admin

Pixord: default IP – 192.168.1.201

stream - <http://cameralP/getimage?camera=1&fmt=sif>

Axis: default IP – 192.168.1.205

stream – <http://serverIP/axis-cgi/mjpg/video.cgi?resolution=320x240>

Panasonic Cam:

stream - <http://cameralP:50000/nphMotionJpeg?Resolution=640x480&Quality=Standard>

Control panel notes:

Comfort:

For a Companion to use the doorphone, it MUST be a MASTER and be attached to a serial UCM. You can have multiple MASTER Companions in the same house though. The downsides are:

- Each MASTER machine must be individually configured (there is a way to copy configurations from one machine to another).
- If you use Add-On's besides Comfort or AudioMate, only one MASTER Companion and its CLIENT's may be able to control that device.

If you don't use the doorphone for a particular Companion, all the other Comfort features should work under the CLIENT / MASTER scheme.