



AUDIOVECTOR

Discreet Control Hub

Users Manual

Bluetooth:

The AUDIOVECTOR control hub features high-end, no-compromise, Bluetooth connectivity. Unlike most other Bluetooth receivers, the AUDIOVECTOR hub receives and keeps the Bluetooth audio in the digital domain. This ensures a bit-perfect signal-path from source to speaker with no openings for analogue artifacts such as distortion and noise. The hub accepts all known standard Bluetooth audio-codecs, which allows for wireless CD-level quality.

CONNECTION TO BLUETOOTH.

To connect to the Hub using a Bluetooth source, simply active the Bluetooth transmitter on your device, (phone, Laptop) and look for Audiovector xxxxx (a number generated by the serial number of the Hub). Press connect and your Hub will be connected until you disconnect. Only one Bluetooth device can be locked to the Hub at a time.

Remoteless operation.

Since most end-users basically want as few remote controls as possible, the hub features a 'remoteless operation' mode. In this mode, all inputs are mixed and sent to the speakers, meaning that the end user does not have to select a specific source to listen to it. As with the current hub, auto--standby and auto-wake-up ensures that all AUDIOVECTOR systems comply with the newest power regulations – and means that the end user do not have to bother with switching the system on and off.

IR and IR- learning.

Should You want to select the different sources individually, adjust the volume directly on the back of the hub or manually control stand-by/power-on, there is an easy way to do this:

By using any IR-remote and the hub's IR-learning capabilities AUDIOVECTOR DISCREET products can often be used in commercial installations and custom A/V installation projects, where integration with systems like Crestron, AMX, Savant, Control4, Élan, and RTI is needed – the AUDIOVECTOR hub therefore offers full control via RS-232 and electrical IR, meaning full integration with all major A/V installation systems.

PROGRAMMING THE HUB TO KNOW THE COMMANDS FROM YOUR IR-REMOTE.

1. Push the small button underneath the Hub and see that the LED changes to orange
2. Push the button on the remote that you want to use turning the volume up, the LED will change to green and then back to orange.
3. Push the button on the remote that you want to use turning the volume down, the LED will change to green and then back to orange.
4. Push the button on the remote that you want to use to change the input, the LED will change to green and then back to orange.
 - White LED shows that all input are open,
 - Blue LED are optical 1
 - Pink LED are optical 2
 - Yellow LED are Coaxial
 - Green LED are Bluetooth
 - Light Purple LED are analogue
5. Push the button on the remote that you want to use power the Hub on and off, the LED will change to green and then back to orange.

General explanation for the AUDIOVECTOR connection hub

All AUDIOVECTOR DISCREET systems consist of a 24 Volt power supply, a control hub and two active Discreet DSP speakers.

The control hub serves three purposes:

- 1: As a connection point for the sources to be connected to a system
- 2: As a signal processor via a very powerful processor chip
- 2: As provider of power to the active speakers
- 3: As transmitter of a digital 24 bit/192 kHz audio stream that is carried on the 24 Volt Audiovector Discreet wire to the speakers.

This is done at the same time as providing power for the speakers. The hub provides two optical digital inputs, a coaxial digital input and an analogue stereo input as well.

Which signals.

The digital inputs accept uncompressed PCM audio data at 44.1 kHz, 48 kHz, 88.2 kHz, 96 kHz and 192 kHz data rate and the analogue input accepts ordinary line level input which it converts to a digital signal through a high quality A-D converter. This means that the hub can be connected to any stereo source available and that if the source is digital, will keep the signal in the digital domain all the way through the system with no loss of signal quality. The Hub will upsample all incoming signals on the digital inputs to 24/192 kHz for best audio performance.

A patented technology.

The technology used to transmit the power as well as digital audio signal on ordinary speaker wire is patented technology called Actiline®.

The technology is 'bit-perfect' and extremely robust.

Problem free installation.

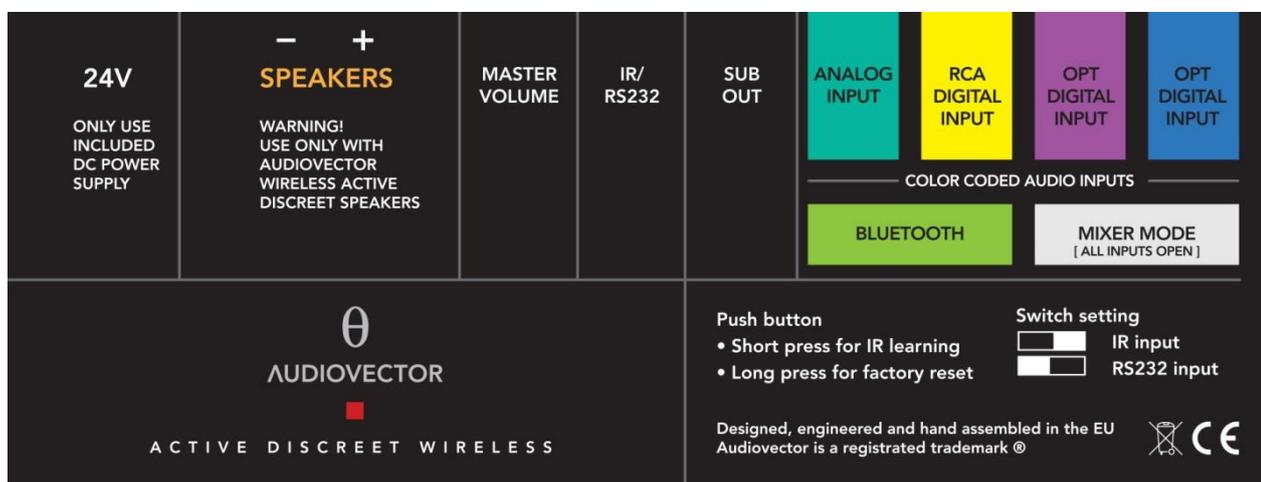
On 18 gauge cable work at distances up to at least 60 meters and even allows for the speakers to be daisy-chained. Since the voltage provided for the speakers is 24 volt DC and therefore by definition 'low voltage', running the wires inside walls, can be done without violating electrical building codes.

In addition, this innovative power solution eliminates the need for high-voltage power outlets close to the speakers as well as bulky power cords. Actually, more than two speakers can be connected to the same hub – the limit is the power supply which is designed work with two speakers. However, if there is no general requirement of being able to run at full volume – for example in a commercial installation, four speakers can be connected to one hub.

Automatic subwoofer sensing.

The hub features a subwoofer output with standard line level output. When the hub senses that a subwoofer is connected, a high precision 4th order digital Linkwitz-Riley filter is applied at 80 Hz to ensure a perfect integration of the Sub.

Please see label below referring to which inputs to use.





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AUDIOVECTOR Discreet quick connection guide.

As the Audiovector Discreet speakers are active speakers, all they need is a connection to their hub.

Loudspeaker connection.

For loudspeaker connection, we have included 6 meters of Discreet cable. This cable carries the 24 Volt power for the amplifiers and the digital 24 bit/192 kHz signal. On Ki-series speakers the 6 meter cable must be cut in appropriate lengths de-isolated by you or your dealer. In the case of more expensive speaker, i.e. the Si-series speakers, the cables have been pre-terminated in 2 x 3 meter lengths.

TO PREVENT ANY DAMAGE: DO NOT CONNECT/DISCONNECT HUB/SPEAKERS TO POWER SUPPLY UNTIL ALL CONNECTIONS ARE COMPLETE.

Please cut the cable into two cables in your preferred lengths and free both end from their insulation.

There is only one set of terminals on the hub.

Twist both cables together in the hub-end. Red twists with red and white with white. Red is always plus. (You do not need two pairs of terminals as the amplifiers are intelligent enough to find out which channel is which). Connect the other ends to each loudspeaker's terminal set.

SET THE L/R SWITCH ON THE REAR OF THE SPEAKERS TO LEFT FOR LEFT SPEAKER AND RIGHT FOR RIGHT SPEAKER.

Once you have connected the power supply to the hub, you are ready to start. (Consult HUB Manual for additional information).

1. You can turn on the system by flicking the switch on the rear of the hub.
2. Or you can turn on the system by just playing music from one of your sources.
3. Or you can turn on the system from your remote control, if you have already made the hub learn its functions.
4. Now you will have music.

Bluetooth connection from mobile phone.

1. Turn on your phone
2. Tap Bluetooth ON
3. Audiovector and a number will appear.
4. Tap connect.

You are now ready to play.

If in doubt about anything: Ask your dealer!