



Avalon

Quick Start Guide



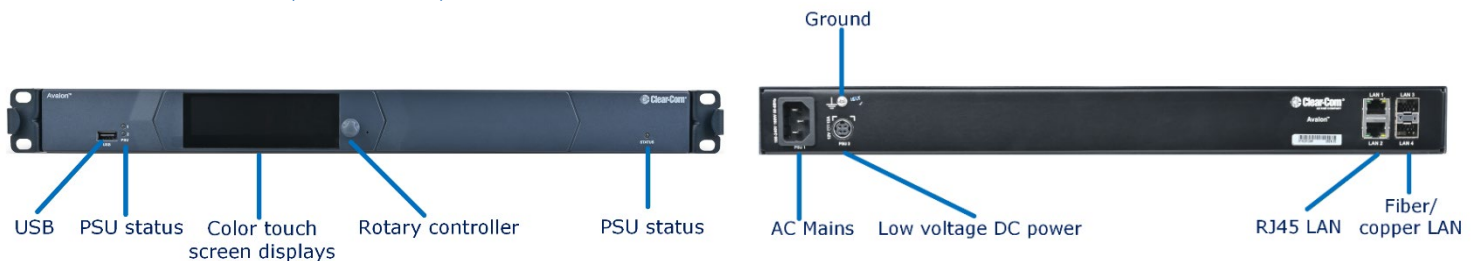
Important! Before use, please make sure you have the latest documentation and system software/firmware.

Avalon® is a networked intercom system that integrates FreeSpeak®, HelixNet® and V-Series keypanels with Dante® and I.V. Direct. Avalon combines scalable licensed port capacity and a browser-based interface (CCM) for setup, configuration, and monitoring in a compact 1RU device.

- FreeSpeak Wireless Intercom: up to 64 beltacks* via up to 32 IP transceivers
- HelixNet Wired Intercom: up to 128 user stations using up to 0-24** HelixNet Enabled Channels*
- V-Series Keypanels: 0-64** connected via I.V. Ports* or up to 32 connected via AES67 Ports*
- I.V. Direct Clear-Com Network Interface ports: up to 0-64** ports*
- Dante Audio Network Interface ports: up to 64 ports*

* Requires Licensed Ports, ** Device Allocation dependent,

Avalon Connectors, Controls, and Indicators



Avalon Host Name and Network Settings

Avalon Host Name is visible when pairing FreeSpeak beltacks and HelixNet user stations. Host name can be found and edited from the CCM **Hardware>Host>Network**.

Avalon allows flexible assignments of functions to its (4) LAN ports configured in CCM **Hardware>Host>Network**. Default LAN; LAN1 for Management/HelixNet/I.V. Ports - LAN2 AES67 to FreeSpeak IP Transceivers.

Network Recommendations:

- | | |
|---|--|
| <p>Do</p> <ul style="list-style-type: none"> • Use network DHCP for HelixNet & FreeSpeak IP TCVR • Use <u>only</u> AES67 capable network for FreeSpeak IP TCVR | <p>Do not</p> <ul style="list-style-type: none"> • Use automatic Link Local IP addresses (169.254...) • Connect 2 Arcadia LAN to same Subnet/VLAN |
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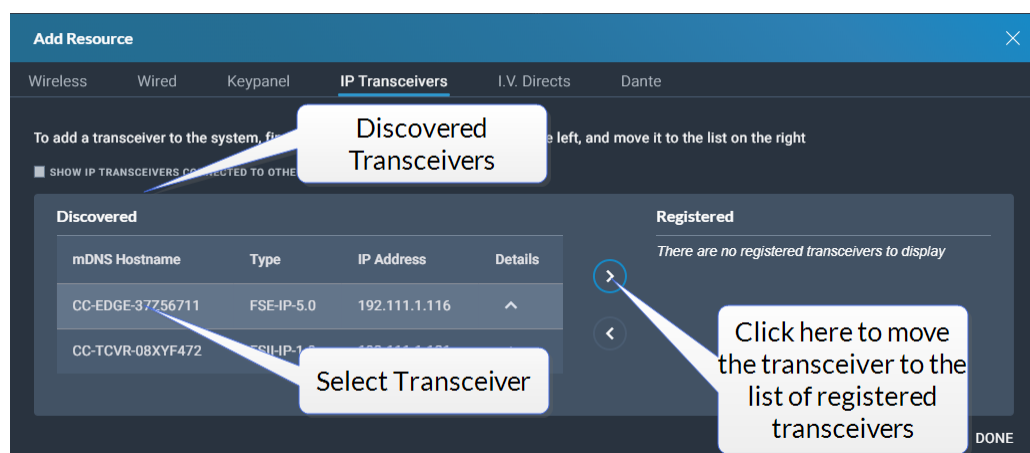
Accessing the Avalon CCM for System Setup, Configuration and Status Monitoring

Avalon's Core Configuration Manager (CCM) allows easy setup, configuration, and status monitoring of your system.

1. Connect Avalon's Management port (Default: LAN 1) to a network along with your computer.
2. Front Panel: Push the rotary controller to enter the menu and scroll to the IP Address.
3. Web browser: Enter the IP address from step 2.
4. Front Panel Menu: Push the rotary controller to view the CCM password at the top of the menu.
5. Web browser: Log In using the username ("admin") and factory default password (case sensitive) from step 4.

Connecting FreeSpeak Transceivers

Connect an AES67 capable network to Arcadia's AES67 network (default: LAN 2) and all FreeSpeak IP transceivers. Provide DHCP and power. From the CCM, navigate to **Hardware>Resources** and select **Add Resource**. Select **IP Transceivers** tab. Select the transceivers found on the network and **Add**.



Registering FreeSpeak Beltpacks

Option 1 – USB Registration at the Avalon Front Panel.

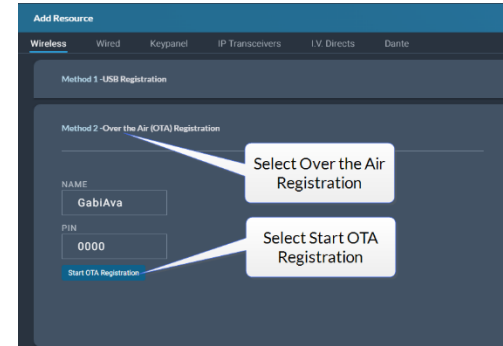
On the front panel of Avalon, connect the beltpack to the USB connector. Avalon will register, create, and apply a role to the beltpack.

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Option 2 – Over-The-Air (OTA) Registration using the Avalon CCM.

1. Navigate to CCM's **Hardware>Resources** and click **Add Resource**.
2. Click **Start OTA Registration**.
3. In the **System Connect** Menu on the FreeSpeak Beltpack, find the Avalon Host Name/System ID and connect using the OTA PIN (FreeSpeakII only). A Role must be created for the beltpack before connection.



Connecting HelixNet User Stations

Connect HelixNet User stations via network infrastructure to Avalon's Management(/HelixNet) port (default: LAN1).

Option 1 – Pairing from the HelixNet User Station Front Panel

From the HelixNet User Station Front Panel Menu select: **Network>Pair to Station** and connect either by entering the IP address of the Avalon (Pair by IP) or selecting the Host Name of Avalon (Pair by Name).

Option 2 – Pairing using the Avalon CCM (only for HelixNet version 4.4 and higher).

From the CCM, navigate to **Hardware>Resources>Add resource** and select the **Wired** tab. Select the HelixNet User Stations found on the network and **Add**.

For more information, see the [Avalon Knowledge Center](#) (QR code above).

Connecting V-Series Keypanels

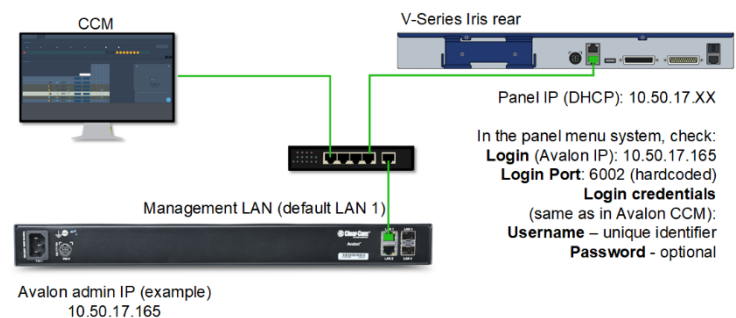
You can connect in the following ways:

- I.V. port type - connect to the management LAN (default LAN 1)
- AES67 port type - connect to the AES67 LAN (default LAN 2)
 - Use device discovery
 - Use the mDNS name of the panel

I.V. Port Type

For the panel to connect to Arcadia:

- The devices must be able to reach each other over the network
- The panel must have:
 - The Arcadia IP address (Management LAN, default = LAN 1)
 - Login Port: 6002
 - Username and password, exactly as configured in the CCM





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AES67 Port Type

The panel must be connected to a correctly configured AES67 network.

For the panel to connect to Arcadia:

- The host and panels must be on the same VLAN
- The panel must have:
- Login Port: 6001 (hardcoded)

