



# Clear-Com Version 3.0 Plus Arcadia Central Station User Guide

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## Clear-Com Version 3.0 Plus Arcadia Central Station



## Product Information

## Specifications

- **Product:** Arcadia Central Station

- **Version:** 3.0+
- **Required:** Licensed Ports

## **Product Usage Instructions**

### **Arcadia Connectors, Controls, and Indicators**

- Arcadia Central Station features various connectors, controls, and indicators for seamless operation.

### **Arcadia Host Name and Network Settings**

- To configure the Arcadia Host Name and Network settings, navigate to the Front Panel Menu: Host Settings>Host Name & CCM Hardware>Host>Network.

### **Network Recommendations**

- Follow the network recommendations provided for optimal performance. Access the CCM for system setup, configuration, and status monitoring.

### **Connecting FreeSpeak Transceivers**

- Use shielded 24 AWG CAT 5E cables or better to connect FreeSpeak transceivers. Avoid using 1.9GHz IP and E1 Transceivers concurrently in the same RF coverage zone.

### **Registering FreeSpeak Beltpacks**

- Create a Role for the beltpack using the OTA PIN (FreeSpeakII only) after connecting. Ensure proper registration for seamless operation.

### **Connecting HelixNet User Stations**

- Connect HelixNet User stations via network infrastructure to Arcadia's Management(/HelixNet) port. Select the network pairing method from the HelixNet User Station Front Panel Menu.

### **Adding Resources**

- Navigate to Hardware>Resources>Add resource from the CCM to add Wired resources like HelixNet User Stations found on the network.

### **For more information**

- Refer to the Arcadia Central Station Knowledge Center for additional details and support.

## **FAQ**

### Q: How do I pair FreeSpeak belt packs with Arcadia?

**A:** To pair FreeSpeak belt packs, follow the instructions in the user manual under the “Registering FreeSpeak Beltpacks” section.

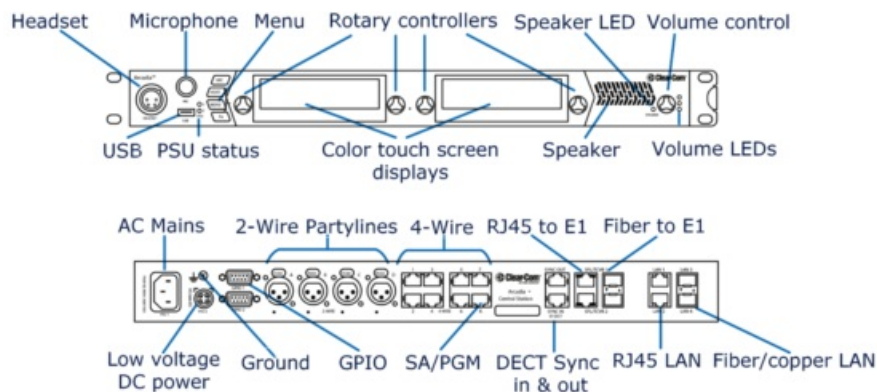
### Q: What cables should I use to connect FreeSpeak transceivers?

**A:** It is recommended to use shielded 24 AWG CAT 5E cables or better to connect FreeSpeak transceivers.

### Important! Before use please verify:

- System firmware is up to date
- AES67 Network requirements for IP-connected FreeSpeak TCVR
- Arcadia® Central Station is a scalable intercom platform integrating FreeSpeak® wireless & HelixNet® wired intercom user stations with Dante, 2-Wire, 4-Wire & GPIO interfaces.
- Arcadia is scalable with licensed port capacity and an easy-to-use CCM browser interface for setup, configuration & system monitoring in a compact 1RU device.
- FreeSpeak Wireless Intercom: up to 64 belt packs\* via up to 32 IP and/or 10 E1 transceivers on 2 splitters
- HelixNet Wired Intercom: up to 128 user stations using up to 24 HelixNet Enabled Channels\*
- I.V. Direct Clear-Com Network Interface ports: up to 16 ports\*
- Dante Audio Network Interface ports: up to 64 ports\*
- **Analog Interfaces:** 2-Wire Powered Partyline, 4-Wire Audio Line-Level and GPIO Controls

### Arcadia Connectors Controls and Indicators



### Arcadia Host Name and Network Settings

- Arcadia Host Name is visible when pairing FreeSpeak belt packs & HelixNet user stations. A hostname can be found & edited from the Front Panel Menu: Host Settings>Host Name & CCM Hardware>Host>Network.
- Arcadia allows flexible assignments of functions to its (4) LAN ports configured in CCM Hardware>Host>Network. Default LAN; LAN1 for Management/HelixNet – LAN2 AES67 to FreeSpeak IP Transceivers.

### Network Recommendations

Do

- Use network DHCP for HelixNet & FreeSpeak IP TCVR
- Use only AES67 capable network for FreeSpeak IP TCVR

## Do not

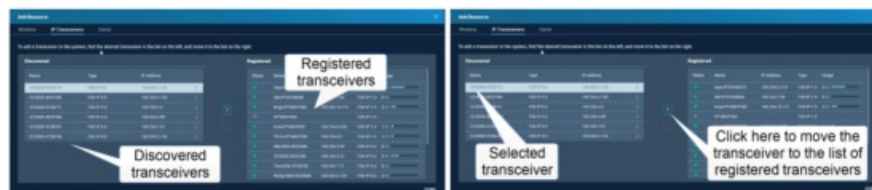
- Use automatic Link-Local IP addresses (169.254...)
- Connect 2 Arcadia LAN to the same Subnet/VLAN

## Accessing the Arcadia

- Accessing the Arcadia CCM for System Setup, Configuration, and Status Monitoring
  - Arcadia's CCM, Core Configuration Manager, allows easy setup, configuration, and status monitoring of your system.
1. Connect Arcadia Central Station's Management port (Default: LAN 1) to a network along with your computer.
  2. **Front Panel:** Use rotary controllers to navigate to Networking>Management>IP Address.
  3. **Web browser:** Enter the IP address from step 2.
  4. **Front Panel Menu:** Use rotary controllers to navigate to Administration>CCM Access>Default Password.
  5. **Web browser:** Log In using the username ("admin") and factory default password (case sensitive) from step 4.

## Connecting FreeSpeak Transceivers

- **Option 1 – E1 Transceivers directly connected via CAT Cabling** Connect an E1 transceiver to each Arcadia E1 RJ45 connector.
- **Option 2– E1 Transceivers via Splitters and CAT Cabling** Connect an FSII-SPL splitter to each of Arcadia's E1 RJ45 connectors using and powering the splitter. Connect E1 Transceivers using CAT cabling to the splitters.
- **Option 3– E1 Transceivers via Splitters and Fiber Cabling** From the CCM, navigate to Hardware>Host>Wireless tab and select FreeSpeakII Transceiver Ports: Fiber. Connect an FSII-SPL splitter to each of Arcadia's E1 SFP connectors using HLI-MMFO (multi-mode) or HLI-SMFO (single-mode) SFP transceivers and power the splitter. Connect E1 Transceivers using CAT cabling to the splitters.
- **Option 4 – IP Transceivers via AES67 Capable Network** 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 the IP Transceivers tab. Select the transceivers found on the network and Add.



- **Note:** 1.9GHz IP and E1 Transceivers must not be used concurrently in the same RF coverage zone.
- Clear-Com recommends shielded 24 AWG CAT 5E cables, or better, to connect transceivers.

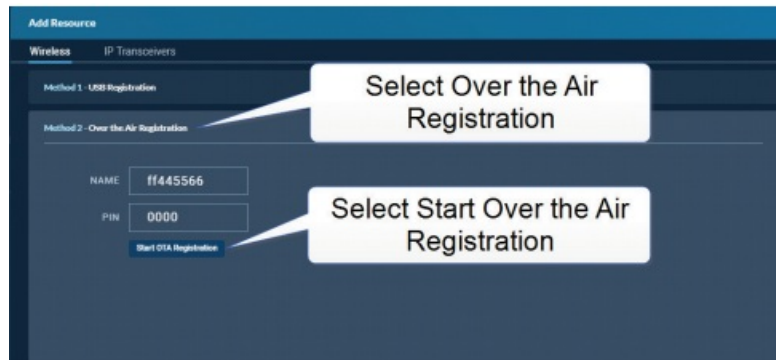
## Registering FreeSpeak Beltpacks

**Option 1 – USB Registration at the Arcadia Front Panel** Connect the beltpack to the USB connector on the front

panel of Arcadia. Arcadia will register, create, and apply a Role to the beltpack.

#### Option 2 – Over-the-air (OTA) Registration using the Arcadia 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 Arcadia Host Name/System ID and connect using the OTA PIN (FreeSpeakII only). Once connected, a Role must be created and selected for the beltpack.



#### Connecting HelixNet User Stations

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

#### Option 1 – Pairing from the HelixNet User Station Front Panel

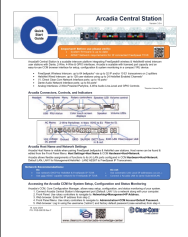
- From the HelixNet User Station Front Panel Menu select: Network>Pair to Station and connect either by entering the IP address of the Arcadia (Pair by IP) or selecting the Host Name of Arcadia (Pair by Name).

#### Option 2 – Pairing using the Arcadia 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 [Arcadia Central Station Knowledge Center](#) QR code
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- [www.clearcom.com/arcadia-knowledge-center](http://www.clearcom.com/arcadia-knowledge-center)



## Documents / Resources

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|  A small thumbnail image of the user guide cover for Clear-Com Version 3.0 Plus Arcadia Central Station. The cover features a blue header with the product name and a list of features. | <p><a href="#">Clear-Com Version 3.0 Plus Arcadia Central Station</a> [pdf] User Guide<br/>Version 3.0 Plus Arcadia Central Station, Arcadia Central Station, Central Station, Station</p> |
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## References

- [User Manual](#)

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