

CHAT® 150 BT Speakerphone



CHAT 150 BT

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Notices

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Information in this document is subject to change without notice.



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Safety Precautions

Read the safety instructions before using this product. This personal speaker phone is not designed for making emergency telephone calls when the power fails. You must make alternative arrangements for telephone access to emergency services.

- Read and understand all instructions. Follow all warnings marked on the product.
- Unplug the product from the outlet before cleaning. Do not use liquid cleaners or aerosol cleaners. Use only a damp cloth for cleaning.
- Do not use this product in or near water, for example, near a bathtub, kitchen sink, or swimming pool.
- Place this product on a flat, level, dry surface for ongoing operation.
- Never place product near heat radiators or registers. Allow adequate ventilation for heat dissipation.
- This product should only be operated using a power source specified on the product label. If you are not sure about the power source at your location, consult your dealer or local power company.
- Do not overload wall outlets and extension cords; this can cause fires or electric shock.
- Never spill liquid on or into the product.
- Do not disassemble this product. Opening or removing covers can expose you to dangerous voltages and other risks. Incorrect reassembly can cause electric shock during subsequent use. Disassembly voids the warranty.
- Unplug the product from the outlet and contact a qualified service technician under the following conditions:
 - a. When the power supply cord or plug is damaged or frayed.
 - b. If liquid has been spilled into the product.
 - c. If the product does not operate normally by following the operating instructions.
 - d. If the product has been dropped or damaged.
 - e. If the product exhibits a distinct change in performance.
- Avoid telephones during an electrical storm. There is a risk of electric shock from lightning.
- Do not use this product to report a gas leak in the vicinity of the leak.
- This product can interfere with electrical equipment such as answering machines, TV sets, radios, computers and microwave ovens. Do not place the product in close proximity to any of these devices.

WARNING: TO PREVENT FIRE OR ELECTRICAL SHOCK HAZARD, DO NOT EXPOSE THIS PRODUCT TO RAIN OR MOISTURE

 <p>THE LIGHTNING FLASH AND ARROWHEAD WITHIN THE TRIANGLE IS A WARNING SIGN ALERTING YOU OF DANGEROUS VOLTAGE INSIDE THE PRODUCT.</p>	<p style="text-align: center;">CAUTION</p> <p style="text-align: center;">RISK OF ELECTRIC SHOCK DO NOT OPEN</p> <p style="text-align: center;">AVIS RISQUE DU CHOC ELECTRIQUE - NE PAS OUVRIR</p> <p>CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK) NO USER SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.</p>	 <p>THE EXCLAMATION POINT WITHIN THE TRIANGLE IS A WARNING SIGN ALERTING YOU OF IMPORTANT INSTRUCTIONS ACCOMPANYING THE PRODUCT.</p>
<p style="text-align: center;">SEE MARKING ON BOTTOM/BACK OF PRODUCT</p>		



Use only in non-tropical locations.



Use only at altitudes of 2000 meters or less.

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Chapter 1: Introduction

Product Overview

Thank you for purchasing the ClearOne CHAT 150 BT group speakerphone. The CHAT 150 BT is a speakerphone for individual or small group use. The CHAT 150 BT connects to telephones, PCs, and video conferencing systems for rich, full-duplex audio communications.

You can use the CHAT 150 BT with a variety of devices and applications, including:

- Enterprise telephones, such as Avaya, Cisco.
- Collaboration applications, such as Microsoft Teams, Zoom, and Google Meet
- Audio playback, such as Spotify, Pandora, Apple Music, Amazon Music, and others

Service and Support

If you need additional information on how to set up or operate your CHAT 150 BT group speakerphone, please contact us. We welcome and encourage your comments so we can continue to improve our products and better meet your needs.

Technical Support

Telephone: 1.800.283.5936 (USA) or 1.801.974.3760
E-mail: audiotechsupport@ClearOne.com
Web site: www.ClearOne.com

Sales and Customer Service

Telephone: 1.800.945.7730 (USA) or 1.801.975.7200
E-mail: sales@ClearOne.com

Product Returns

All product returns require a return material authorization (RMA) number. Please contact ClearOne Technical Support before attempting to return your product. Make sure you return all the items that shipped with your product.

Unpacking

The illustration below shows the parts that ship in the box with each model of the CHAT 150 BT. Contact your dealer for replacement parts and accessories.

Part No: 910-156-500



NOTE: ClearOne is not responsible for product damage incurred during shipment. You must make claims directly with the carrier. Inspect shipment carefully for obvious signs of damage. If the shipment appears damaged, retain the original boxes and packing material for inspection by the carrier. Contact your carrier immediately.

Chapter 2: Getting Started

LED Indicators

The three microphone LED indicators illuminate blue when the CHAT 150 BT microphones are active (unmuted). The indicators illuminate red when the CHAT 150 BT microphone mute function is active. The seven volume LED indicators illuminate blue to indicate the current volume setting—more lights indicate higher volume. The Bluetooth indicator shows the status of it's operation, refer to it's "function" on page 8.

Volume and Mute Controls

Use the Volume Up/Down symbols to adjust the volume level of the CHAT 150 BT. Touch the Mute symbol on the CHAT 150 BT to mute or unmute the microphones.

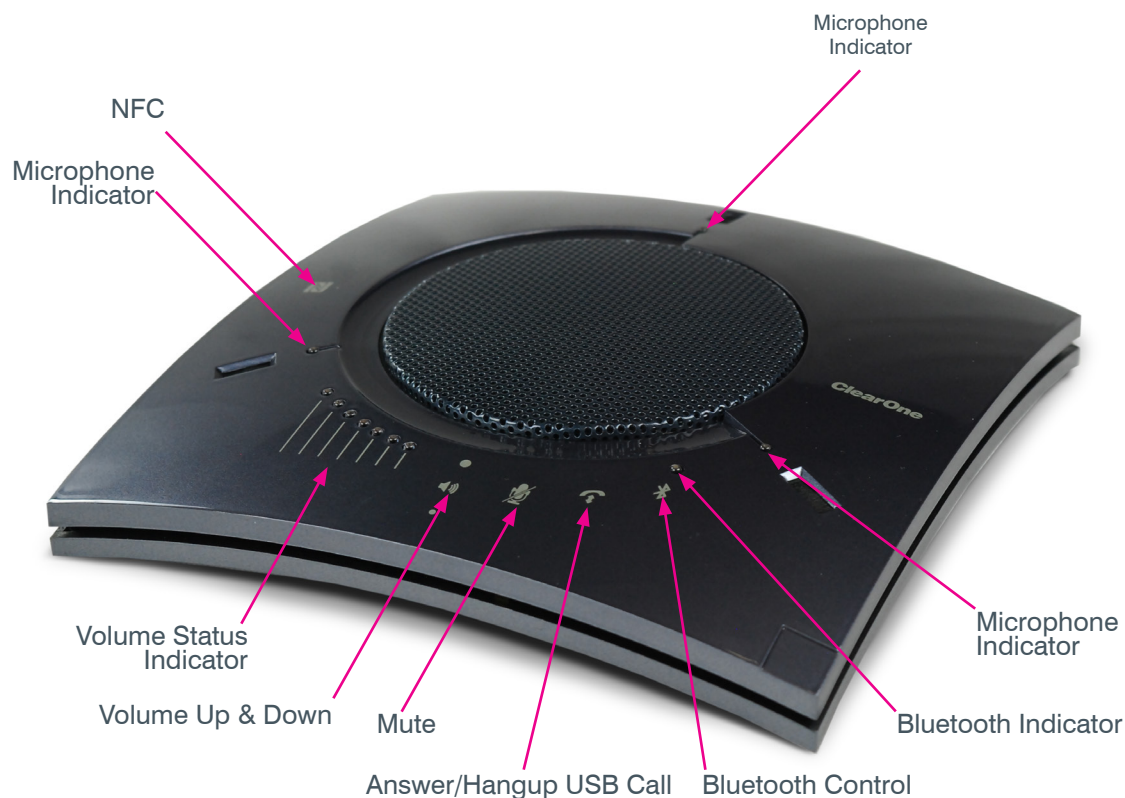
If you are using the CHAT 150 BT with a PC, you can also use the volume controls in Windows or in the CHAT Console software application to make these adjustments.

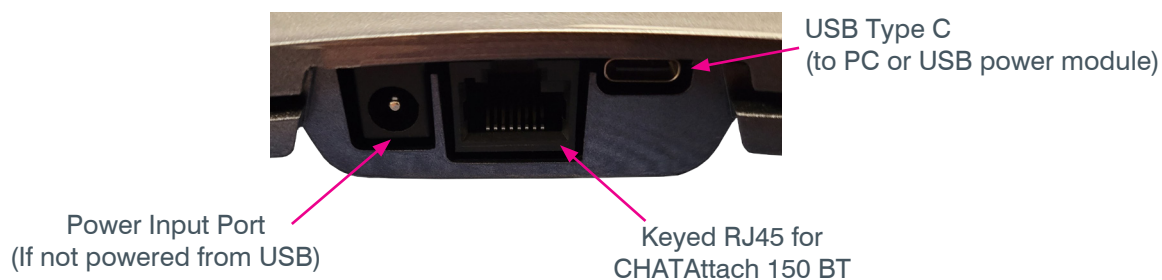
Answer/Hangup Control

Touch the Answer/Hangup symbol to answer or hangup a USB connected call with supported collaboration applications.

NOTE: If your CHAT 150 BT is connected to a PC, any changes you make to volume by pressing the CHAT 150 BT's buttons are reflected in the Speaker Volume Control in Windows and in the CHAT software.

CHAT 150 BT Controls and Indicators





Warning: Only use a ClearOne-Approved power supply to avoid damaging the system.

Warning: Do not connect a CHAT 150 BT to a CHAT 150.

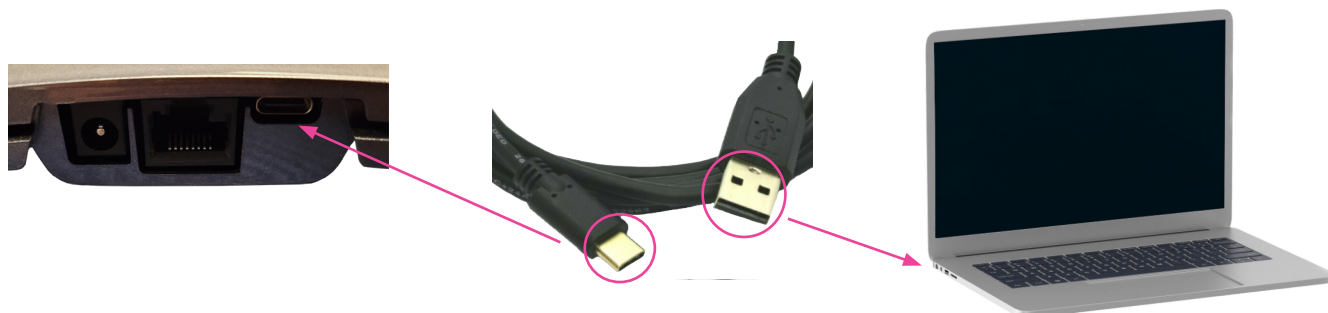
Powering the CHAT 150 BT

How you power your CHAT 150 BT depends on whether or not you connect it to a computer.

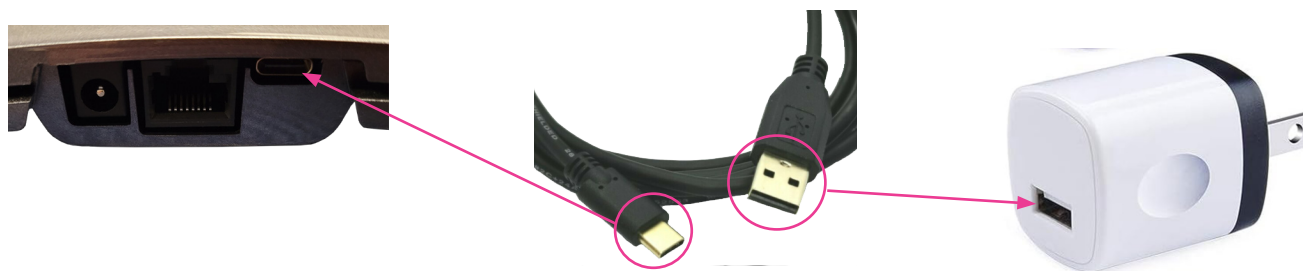
Use the included USB cable to power the CHAT 150 BT.

Reminder: Place the CHAT 150 BT unit on a flat horizontal surface.

Powering the CHAT 150 BT when connected to a Computer



Powering the CHAT 150 BT when not connected to a Computer



Installing the CHAT Console Software for Windows

NOTE: The install procedure is the same for all versions of Windows 10 and above operating systems.

The CHAT 150 BT can be used right out of the box and there's no software to download or install if it is to be used only with a PC or a Bluetooth enabled device. The CHAT Console software can be used to update the Bluetooth pairing name to a user defined name or perform a firmware update.

The following procedure can be used to download and install the CHAT software for the CHAT 150 BT if the CHAT 150 BT firmware requires updates.

1. Download the CHAT software by accessing the following:
<https://www.clearone.com/rl-search?combine=chat+software>
2. Run the downloaded installer “exe” and follow the prompts.

See chapter 4 for more instructions as shown above

Bluetooth Functions

Bluetooth Enable/Disable

To disable the Bluetooth functionality, click on the “Disable Bluetooth” box. To “re-enable” the Bluetooth, the user must “un-click” this box while connected to the CHAT 150 BT.



Bluetooth Pairing Name Change

To change the Bluetooth “Pairing Name”, enter the desired name and click on “Apply”.

Chapter 3: Bluetooth Operation and Connections

Bluetooth State	CHAT 150 BT LED Indication
Disabled	Fast purple blinks and then off
Power Off / Power On	3 fast purple blinks with audio then fast blue blink until standby mode
Standby	Slow blue blink (5 sec rate)
Pairing Mode	Flashing Blue at 1 second rate
Pairing Mode Completed	Flashing Blue ten times in 2 seconds
Connected	Constant Blue
Playing Music	Purple Blink (5 sec rate)
Incoming Call or Ringing	Fast 3 blue blinks (3 sec rate)
Active Phone Call	Fast 3 purple blinks (3 sec rate)

Bluetooth States for CHAT 150 BT

Audio Connections

Audio connections can be done with the CHAT 150 BT over Bluetooth, over the USB connection, or both simultaneously. The CHAT 150 BT can operate as a “Bluetooth only” audio connection using an external power supply through the 9 volt input or the USB connection.

Bluetooth Audio Volume

The volume of audio from the Bluetooth connection is independently controlled from the connected device. The volume on the CHAT 150 BT adjusts the volume to the speaker for audio from both the Bluetooth and USB connections.

Bluetooth Name

Is initially set to “CHAT_ xxxx” where the “xxxx” are the last four digits of the Bluetooth MAC address.

The user may change the Bluetooth name using the Console.

Bluetooth Disable/Enable

The Bluetooth functionality can be disabled by the user using the Console.

Bluetooth Power Down/Up

The Bluetooth can be powered down by pressing the Bluetooth key for longer than 3 seconds. It can then be “re-powered” by pressing the Bluetooth key again.

Bluetooth Pairing Mode

While the Bluetooth unit is powered, a short press will put the Bluetooth in “pairing mode” and a cellphone, PC, or other Bluetooth device can connect to the CHAT 150 BT. While in “pairing mode”, pressing the Bluetooth key will stop the pairing mode.

If a device is already connected, pressing the Bluetooth key will “disconnect” that device but it will still be “paired”. Multiple devices can be “paired”, but only one can “connect” to send audio.

To complete the Bluetooth connection, follow the procedure on your connecting mobile or Bluetooth enabled device.

Once a device is “paired”, that device will also “connect” to the Bluetooth enabling voice or music to be communicated over the Bluetooth.

Chapter 4: Configuring the CHAT 150 BT

This section describes how you configure your CHAT 150 BT for the specific devices you are connecting to. The CHAT software contains a database of pre-configured device settings that allows you to instantly select and apply optimal settings for supported devices.

NOTE: From time to time, ClearOne adds additional devices to the database. To update your CHAT software to include all currently supported devices, see the [Update Firmware & Database](#) section later in this chapter.

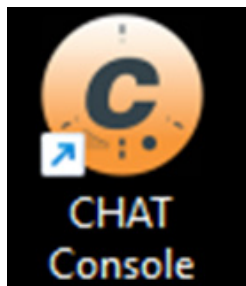
If the specific device you are using with the CHAT 150 BT is not listed in the database, you can create a custom device by following the instructions described later in this chapter.

Device Setup

This document will show how you can use CHAT Console to program and control the CHAT series of products.

Running CHAT Console

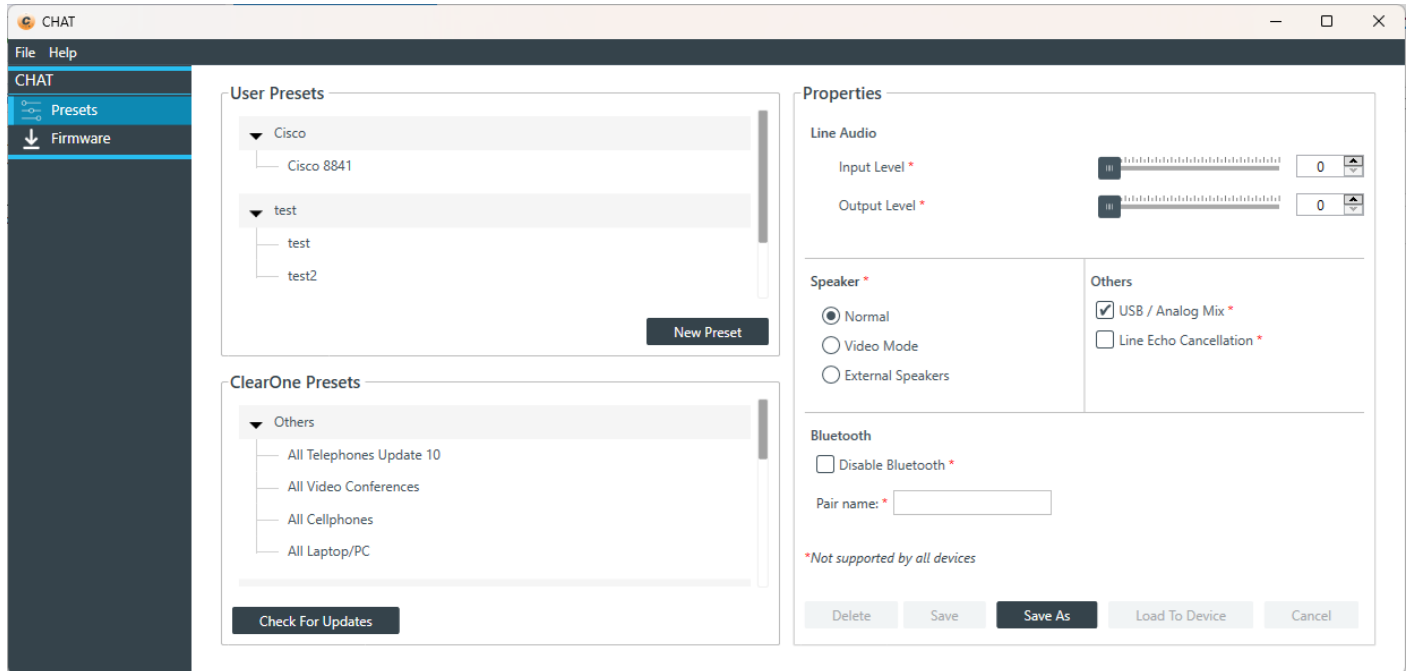
After installing CHAT Console, run it by double clicking on the CHAT Console icon on your desktop:



Or through the start menu: Start | ClearOne | Chat Console.

Main View

When you run CHAT Console and do not have a CHAT device plugged in, you get the following screen:

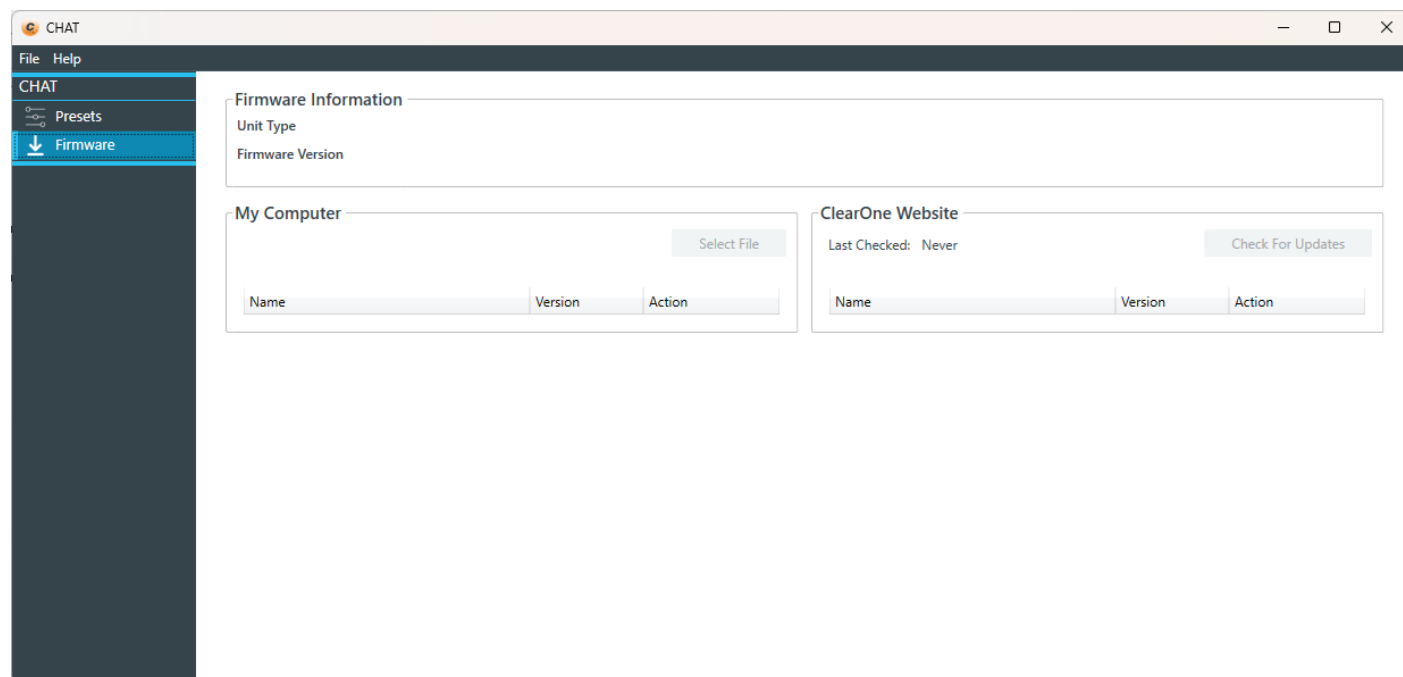


From this screen, the following can be done in the Presets view:

- View ClearOne's pre-made presets by clicking on a preset in the ClearOne Presets section.
 - If wanted, these can be modified and saved as a User Preset.
- View User Presets by clicking on a preset in the User Presets section.
 - If wanted, these can be modified and saved, or a new preset can be created.
- Create new user presets. This can be done by doing one of the following:
 - Simply adjust the settings in the Properties section and click on Save As.
 - Click on New Preset in the User Presets section, modify the settings in the Properties section, and click on Save.
- Delete presets.
 - Select a user preset in the User Presets section and click on the Delete button in the Properties section.
- When a CHAT is connected to the PC, the Load To Device button will enable and the currently shown preset can be loaded onto the CHAT.
- Check for new ClearOne presets by clicking on the Check for Updates button in the ClearOne Presets section. Any new presets will be shown in the list.
- Change the language used in CHAT Console by clicking on Help | Language and selecting the language wanted.
- Check for software updates by clicking on Help | Check for Updates.
- Check the version of CHAT Console by clicking on Help | About.

Firmware Screen

When the Firmware tab is pressed in the navigation pane , and you're not connected to a CHAT 150 BT, the following view is shown.



When there is not a CHAT device plugged into the PC, the Firmware Information section is blank. When a CHAT device is plugged into the PC, the data in the Firmware Information section is populated.

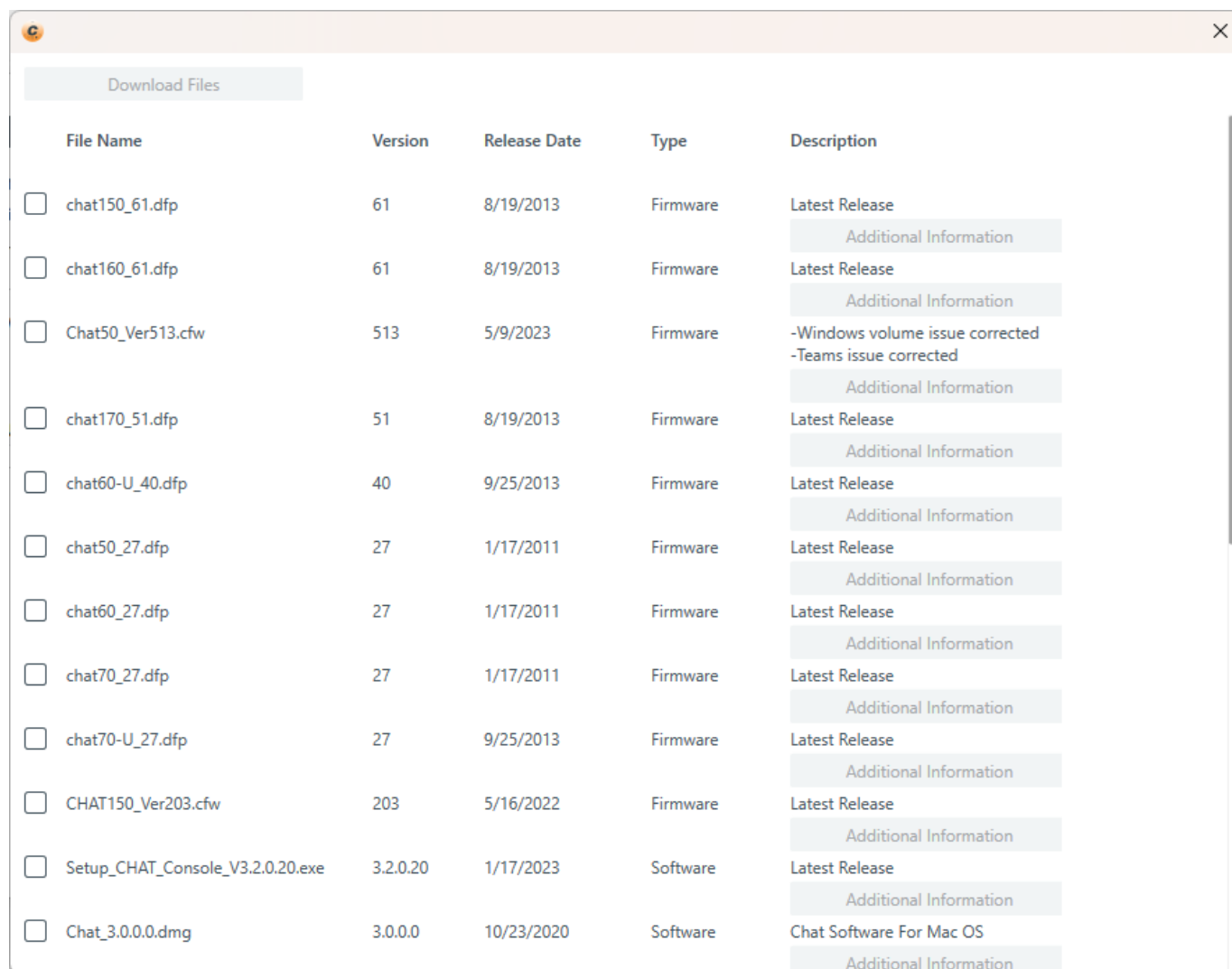
The My Computer section will be populated with firmware versions for the connected CHAT device.

The ClearOne Website section will be populated with firmware versions for the connected CHAT device that can be downloaded.

When a CHAT device is connected, to update the firmware, click on the send button next to the version of desired firmware. Alternatively, click on the Select File button to search the PC for a firmware file.

Check for Updates Dialog

When Help | Check for Updates is selected, the following dialog will appear:

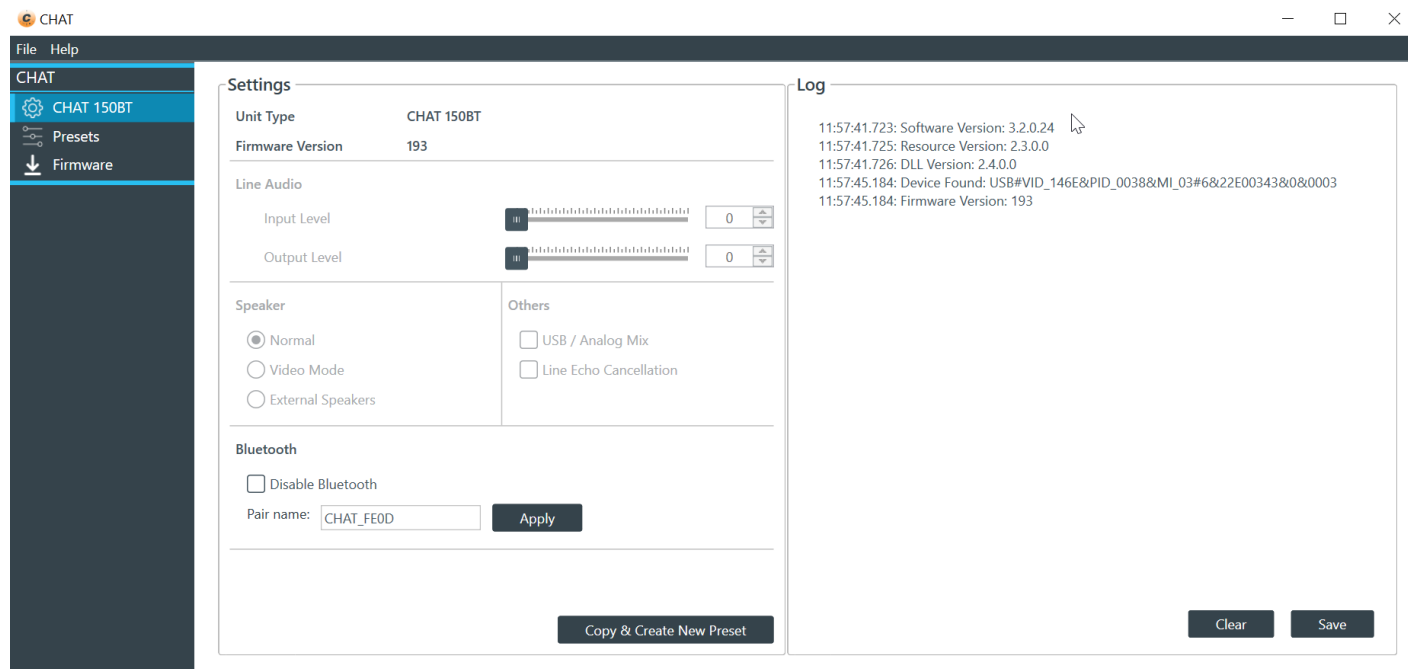


This lists all the firmware and software files that can be downloaded. Clicking on one or more checkboxes to the left of the file names will enable the Download button. Clicking on the Download button will download the selected files.

Connecting to a CHAT Device

To connect to a CHAT device, simply plug a device in to your PC. The CHAT Console will automatically connect. Only one CHAT device plugged into the PC is supported.

When a CHAT device is plugged into the PC, Console will show the following view:



The settings of the CHAT device can be controlled in the Settings section. Any controls that are disabled are not supported by the connected CHAT device.

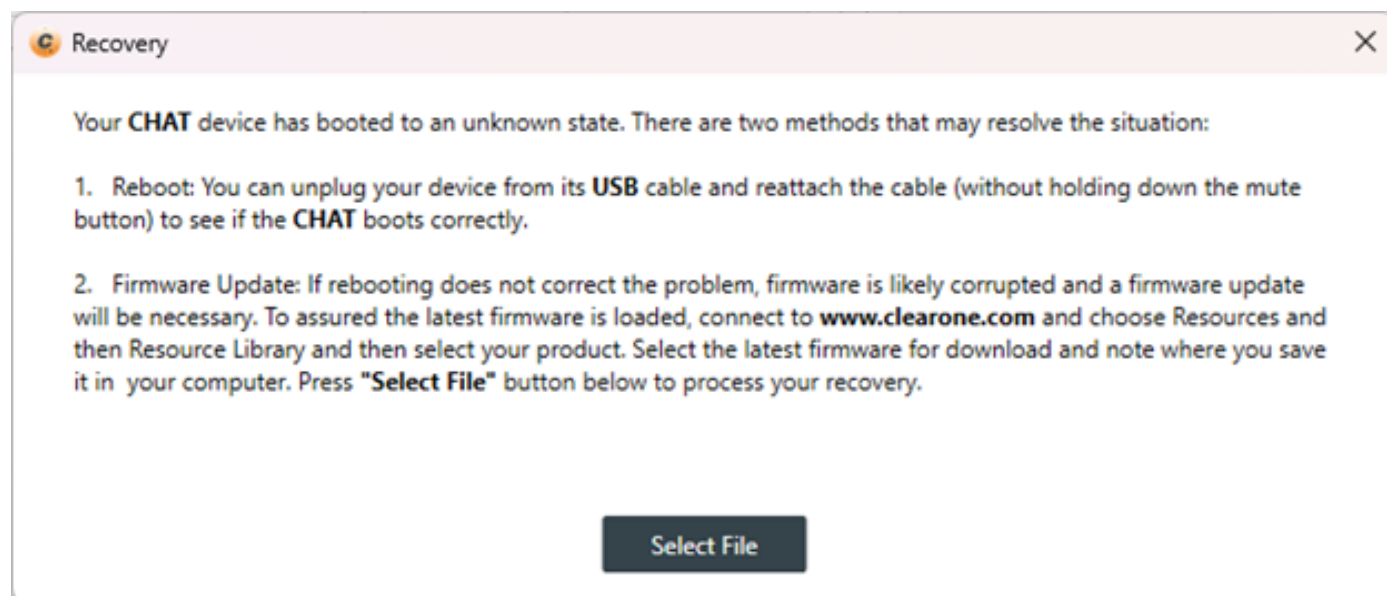
A new user preset can be created from the current settings of the CHAT by clicking on the Copy and Create New Preset button.

The application log file can be saved by clicking on the Save button in the Log section.

The application log file can be cleared by clicking on the Clear button in the Log section.

CHAT Recovery

When the CHAT is plugged into the PC in a non-normal state, the following dialog will be shown:



Click on Select File to choose a firmware file to send to the device to recover the CHAT to a normal functioning state.

After the above Recovery update, power cycle the CHAT 150 BT, and perform a normal Firmware update as shown above in the firmware screen section.

Chapter 5: Appendix

SPECIFICATIONS

PART NUMBER

- 910-156-500

SYSTEM REQUIREMENTS

- Microsoft Windows® 10 and higher; MAC OS™

CONNECTIONS

- USB: Compatible with USB 2.0 and above, type: Type C receptacle
- Keyed: RJ-45 (8-conductor) - for future use

AUDIO

- Speaker
 - Bandwidth: 190 Hz – 20 kHz
 - Maximum output level: 85 dB SPL @ 1 ft (0.30 meter)
- Microphone(s)
 - Bandwidth: 50 Hz – 7.75 kHz

BLUETOOTH USB ADAPTER 5.0

- Bluetooth V5.0 standard (also compatible with V2.0/3.0/4.0/4.2)
- Transfer Speed: 3 Mbps
- Transmitter Range: 10-20 M
- Frequency Band: 2.402 - 2.48 GHz
- Dual-mode Bluetooth transfer
- Bluetooth low energy with EDR
- Operating System: Windows 7 or later
- Sensitivity: -86 dBm @ 0.1% BER
- RF TX Power: +6 dBm (Class II)
- Supply Voltage: 5 VDC(MAX 5.575 V)
- Software Support: Realtek Driver

SUPPORTED BLUETOOTH PROFILES

- RF Radio:
 - Qualified for Bluetooth V 5.0 Specification: – HFP 1.7, HSP 1.2, A2DP 1.3, AVRCP 1.6, and Bluetooth classic (BR/EDR)
 - Frequency Spectrum: 2.402 GHz to 2.480 GHz
 - Receive Sensitivity: -90 dBm (2 Mbps EDR, at 0.01% BER)

NFC TAG

- Tap to Bluetooth pair
- Chip (NTAG213)
- Antenna Size (21 mm)
- Memory 180 bytes
- Characters 130

POWER

- USB
 - 5 VDC @ 500 mA maximum
- External
 - 100 - 240 VAC input, 9 VDC @ 560 mA output

CONTROLS

- Volume up
- Volume down
- Microphone mute
- Bluetooth pair

ENVIRONMENTAL

- Operating temperature: 41 - 104 °F (5 - 40 °C)

PROCESSING

- Full Duplex
- Distributed Echo Cancellation (D. E. C.)
- Noise Cancellation (NC)
- Automatic Level Control (ALC)
- Steerable Mic Array

MECHANICAL

- Dimensions (W x D x H): 7.4 x 7.4 x 1.8 in (188 x 188 x 46 mm)
- Weight: 1.17 lbs (0.53 Kg)

Eu Compliance

Details on European compliance can be found on the ClearOne website under “Resource Library”.

FCC PART 15/ICES-003 Compliance

This equipment has been tested and found to comply with the limits for a Class B digital device pursuant to Part 15 of the FCC Rules and Industry Canada ICES-003. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced Radio/TV technician for help.

FCC PART 15.19(A) (3) Compliance

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesirable operation.

Warranty

ClearOne Communications, Inc. (the Manufacturer) warrants that this product is free of defects in both materials and workmanship. For complete warranty information including length, coverage, and limitations, visit ClearOne on the Web @ www.ClearOne.com.