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# **Voisus Handheld Terminal User Guide**

**Document: DOC-VS-HHT-UG-D-0**



Product Name: Handheld Terminal

Voisus Handheld Terminal User Guide

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# Revision history

Date	Revision	Version	Comments
7/26/2019	D	0	Converted HHT content to XML. Edited content for grammar, accuracy, and style.

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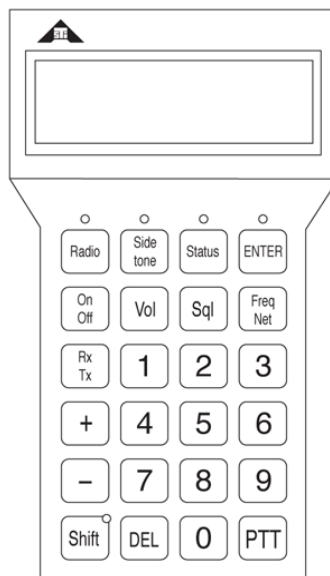


# 1.0 Introduction

The handheld terminal is an all-purpose radio control interface for up to eight simulated radios and/or intercoms. The HHT supports common radio control functions:

- Net selection
- Squelch level
- Volume
- Press-to-talk (PTT)

Figure 1, "Handheld terminal" below shows the Voisus handheld terminal:



*Figure 1: Handheld terminal*

## 2.0 Network configuration

The HHT commonly pairs with a headset to provide an independent operator communication station. The HHT and headset connect to the Voisus server via an Audio Communications Environment Network (ACENet) audio and I/O distribution device (e.g., ACE-RIU, ACU2).

Figure 2, "HHT network configuration" below shows an example of an HHT system architecture:

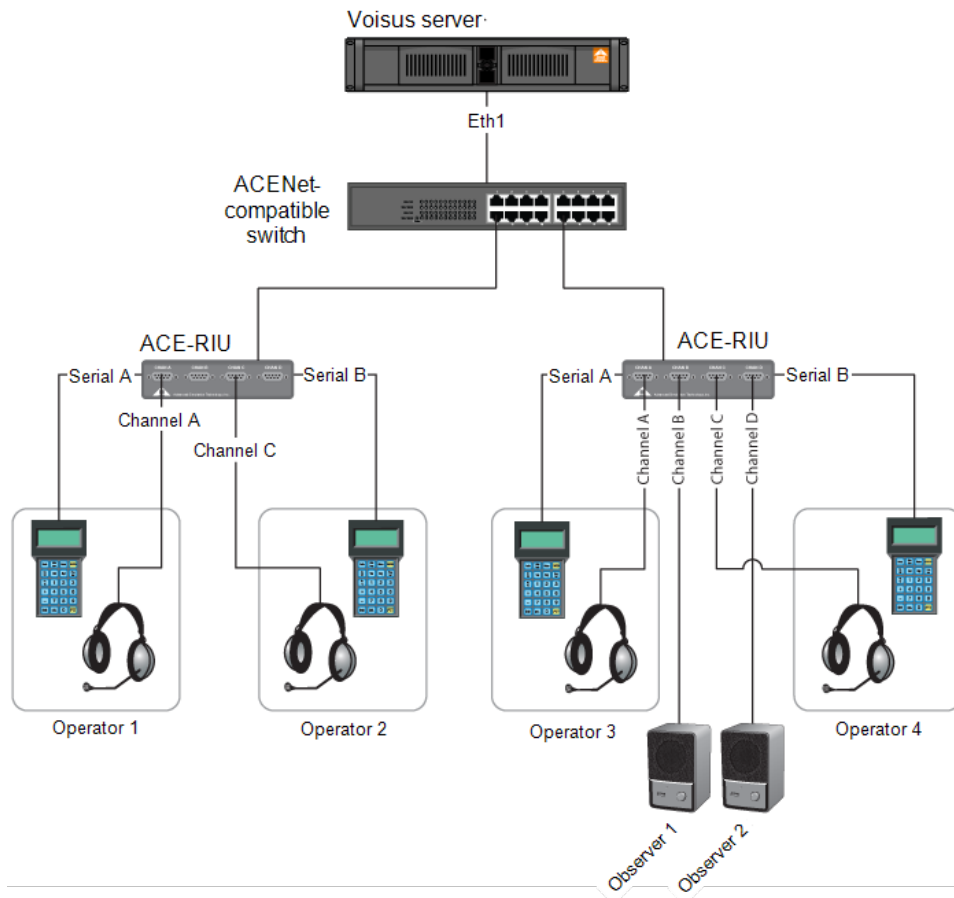


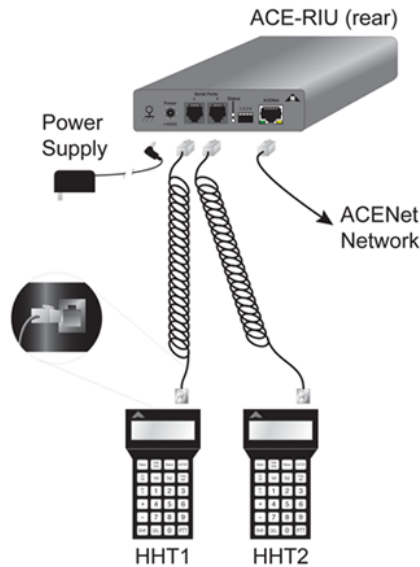
Figure 2: HHT network configuration



## 3.0 Hardware installation

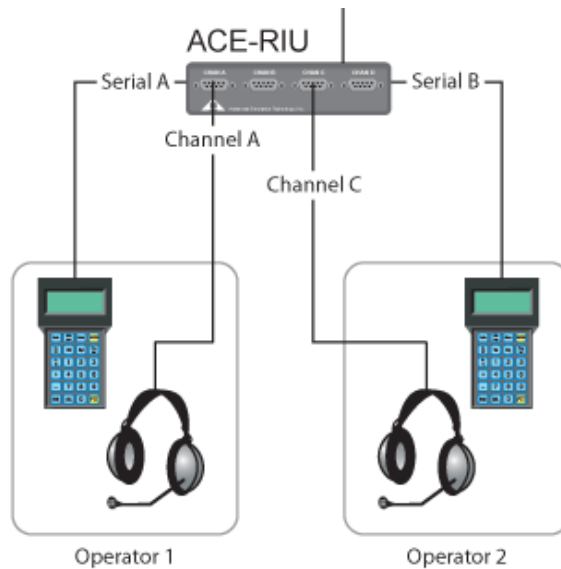
To install HHT hardware, follow these steps:

1. Connect the HHT to a serial port on the back of the ACENet device. Each ACENet device accommodates two HHTs.



*Figure 3: ACE-RIU serial connection*

2. Connect the headset to the audio channel corresponding with the HHT serial connection.



*Figure 4: Operator detail*

Each serial port is associated with an audio channel. Serial A links to Channel A. Serial B links to Channel C.

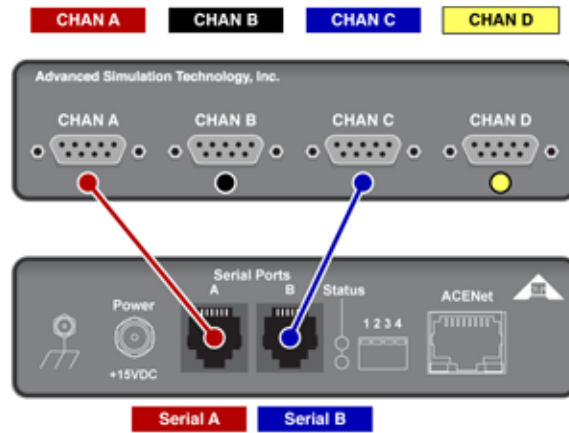


Figure 5: ACE-RIU diagram

3. (Optional) Connect Channel B and Channel D to speakers, and use them as observer positions. To learn more about observers, go to "Observers" in the *Voisus Client User Guide*.

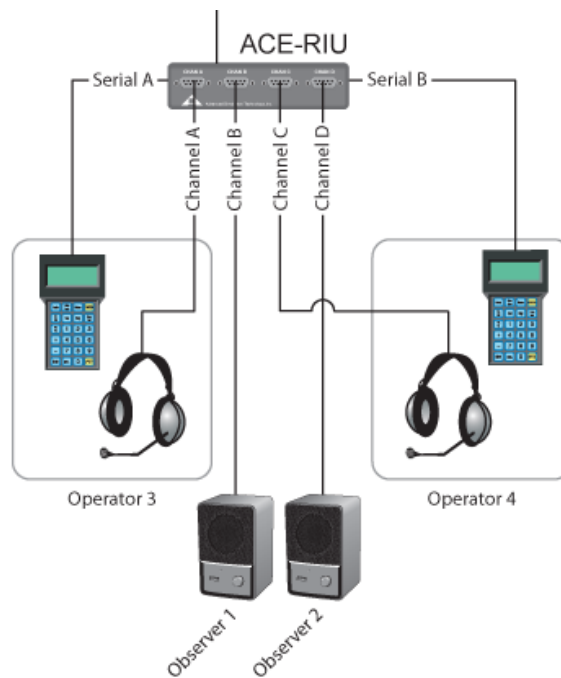


Figure 6: Observer option

## 4.0 Software setup

To set up an HHT in the Voisus web interface, follow these steps:

1. Open a web browser on a computer sharing a network with the Voisus server.
2. In the address bar, enter the Voisus server's IP address.
3. Log into the Voisus web interface using the following default credentials:

Username	Password
admin	astirules

4. Add, run, and open a scenario, as described in "Manage scenario" in the *Voisus Quick Start Guide*. You may wish to start with the **HWPanels\_Example** template, which includes preset nets and an HHT role.
5. Add ACE-RIU audio distribution device(s) to the Voisus server's cloud, and assign them unique channel identifier names. To add and name hardware devices in the Voisus web interface, go to "Name hardware devices" in the *Voisus Quick Start Guide*.
6. Add or edit nets in the **Comm Plan**, as described in "Comm Plan" in the *Voisus Client User Guide*.
7. Add a role, and populate it with a **Generic** radio and nets, as described in "Add a role" and "Add a radio" in the *Voisus Client User Guide*.
8. Add Voisus software clients, and map them to the ACE-RIUs that you added in Step 5. In **HHT Display Name**, enter a unique display name for the HHT. To learn more about client mapping, go to "Manage Clients" in the *Voisus Client User Guide*.

## 5.0 Operation

Once you set up the software and the scenario is running on the Voisus server, the HHT can access the resources you assigned to it in the Voisus web interface.

This chapter discusses the following topics:

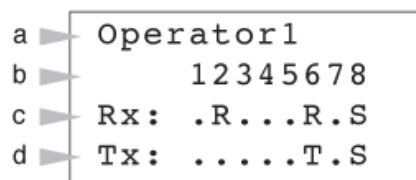
- Main display screen
- Hot keys
- Radio status screen

### 5.1 Main display screen

The main display shows the HHT's status:

- *HHT display name*: set in the Voisus web interface on **Manage Clients**.
- *Available radios*: shows up to eight radios. A digit represents each radio. When the radio receives a transmission, its associated digit changes to an asterisk (\*).
- *Receive status*:
  - An “R” indicates that this radio is in RECEIVE mode.
  - A period (.) indicates that Rx is not selected.
  - An “S” indicates that this radio is in SECURE mode.
- *Transmit status*:
  - A “T” indicates that this radio is in TRANSMIT mode.
  - A period (.) indicates that Tx is not selected.
  - An “S” indicates that the radio is in SECURE mode.

Figure 7, " Main screen" below shows the HHT's main display screen:



```
a ▶ Operator1
b ▶      12345678
c ▶ Rx:  .R...R.S
d ▶ Tx:  .....T.S
```

a) HHT display name, b) Available radios  
c) Receive status, d) Transmit status

*Figure 7: Main screen*

Figure 8, "Status operation controls" below shows the main status screen's operation controls:

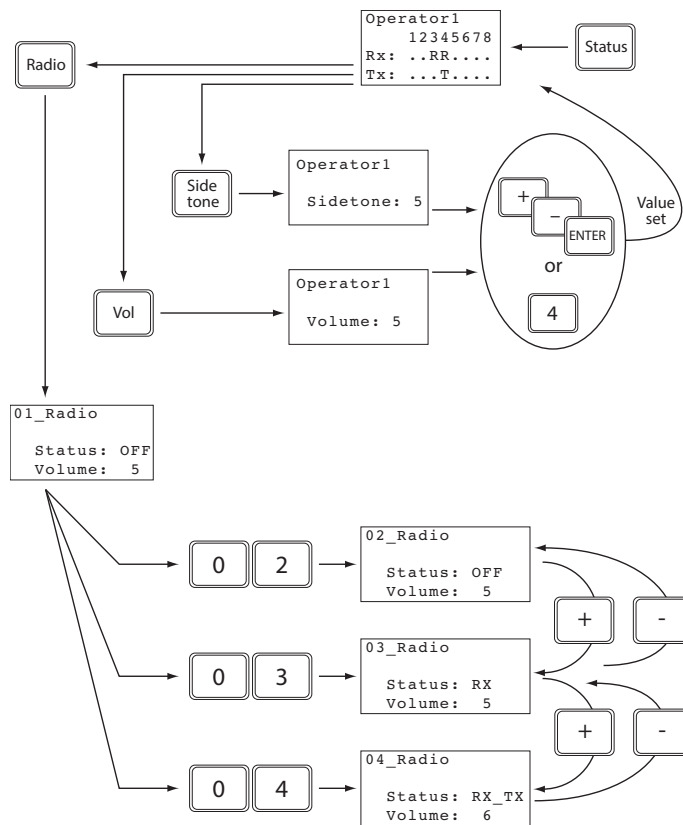


Figure 8: Status operation controls

### 5.1.1 Master volume

From the main status screen, press **Vol**. Enter a numeric value (i.e., 0–9), or press **+**/**-**. When you reach the desired volume level, press **ENTER**.

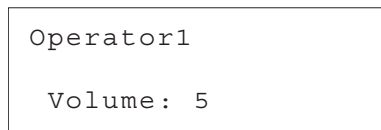






Figure 9: Operator volume level

## 5.1.2 Sidetone

From the status screen, press . Enter a number (i.e., 0–9), or press  . When you reach the desired volume level, press .

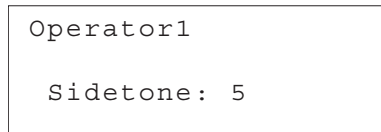



Figure 10: Sidetone display

## 5.2 Hot keys

Hot keys are used to access the most frequently used functions. This section discusses the following topics:

- Receive/transmit mode
- Receive mode
- Secure mode

### 5.2.1 RECEIVE/TRANSMIT mode

To choose a particular radio for TRANSMIT or RECEIVE mode, enter a two-digit radio number (e.g., 01, 02). The status screen shows radio numbers (i.e., 1–8). To turn off TRANSMIT or RECEIVE on a radio, press  + the radio's two-digit number.

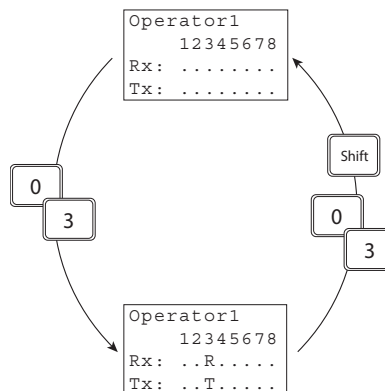


Figure 11: RECEIVE/TRANSMIT hot key operation

## 5.2.2 RECEIVE mode

To choose radios for RECEIVE mode, press **Shift** + the two-digit radio number. To turn off a RECEIVE radio, press **Shift** + the two-digit radio number.

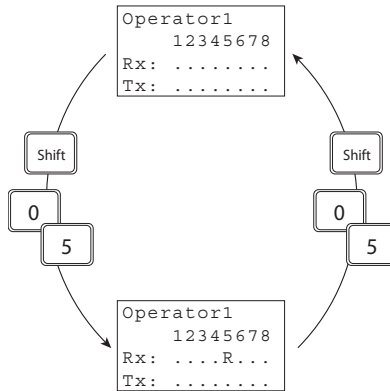


Figure 12: RECEIVE hot key operation

## 5.2.3 SECURE mode

To toggle the SECURE mode of a particular radio, press **Shift** + **On/Off** + the two-digit radio number.

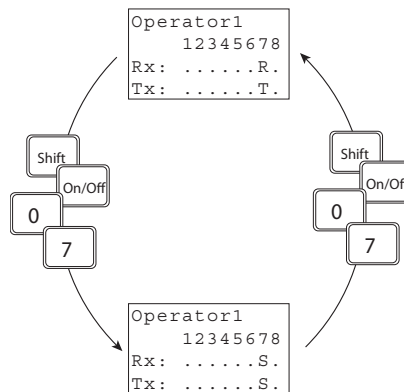


Figure 13: SECURE mode hot key operation

## 5.3 Radio status screen

To view the radio's status screen, press + a two-digit radio number:

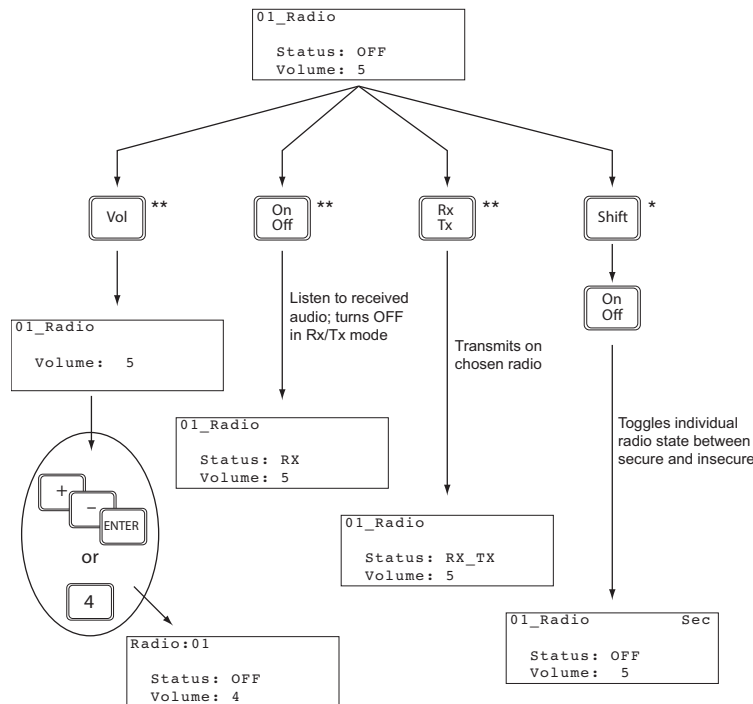
- Press , and then press or a number key to change the radio's volume. Press to submit.
- Press to toggle the radio's mode between OFF (i.e., silent) and RECEIVE.
- Press to toggle the radio mode between RECEIVE and RECEIVE/TRANSMIT.
- Press + to turn SECURE mode on or off.

Figure 14, "Radio status screen" below shows the radio status screen:

```
01_Radio
  Status: OFF
  Volume: 5
```

*Figure 14: Radio status screen*

Figure 15, "Radio status operation" below shows radio status operation:



\* This control affects operation of the simulated radio.

\*\* This control affects how individual operator audio is routed (and its level) to/from a simulated radio.

*Figure 15: Radio status operation*



### 5.3.1 Change the net

Press , and enter the net number (i.e., 1–999) using the number keys. Press  to submit.

### 5.3.2 Squelch





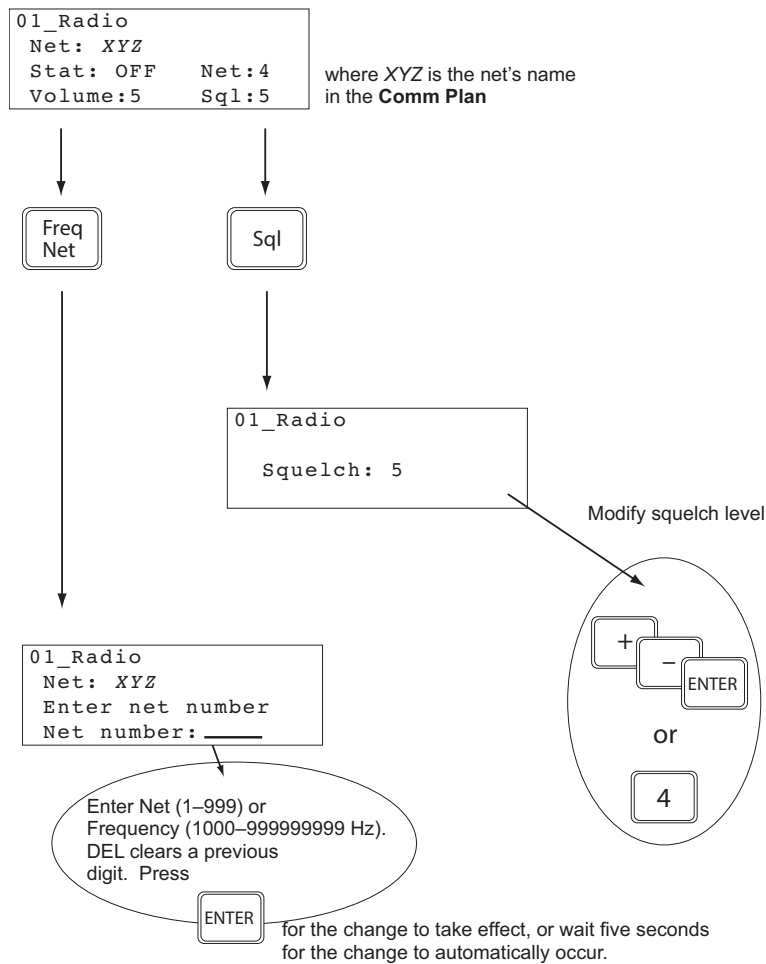
To change the value, press , and use the /  keys or a number key. To submit, press .

Figure 16, "Squelch operation" below shows squelch operation:



**Figure 16: Squelch operation**