



# ARCS System User's Guide

**Document No.: HRT2000EUD0011**

This document is the property of HiRiseTech Ltd.  
It is intended for the sole usage of its recipient within the scope of the following restrictions: copying, reproduction or transfer, of this document, to third parties in whole or part is prohibited without the prior written authorization of HiRiseTech Ltd.

## Safety Summary

Follow are warnings and cautions which should be carefully observed.

- **WARNING:** Never insert objects of any kind through openings in the equipment. Conductive foreign objects could produce a short circuit that could cause bodily injury, fire, electrical shock, or equipment damage.
- **CAUTION:** Never connect the system to a voltage outlet other than that designated for the system.
- **CAUTION:** Changes or modifications to this equipment not expressly approved by the party responsible for compliance (HiRiseTech Ltd.) could void the user's authority to operate the equipment.
- **CAUTION:** To comply with FCC RF exposure compliance requirements, the device should be located at a distance of at least 20 cm from all persons during normal operation. The antennas used for this product must not be co-located or operated in conjunction with any other antenna or transmitter.
- **NOTE:** This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

## Table of Contents

1.	Activation	4
2.	Console Controls and Indicators	5
3.	Communicating over the Console	6
4.	Recording the Audio on a USB Flash Drive	7
5.	Playing Back Audio from a USB Flash Drive	7

## Introduction to the ARCS Console



**Figure 1: ARCS Console**

The ARCS Console, which fully supports FDNY Tactical Channels 11 and 12, enables the control and operation of the ARC system. Command personnel have full and on-going voice contact with all personnel in the building using their Standard Portable Radios and can communicate with each individual or all together.

The ARCS Console provides digital recording over a removable USB Flash Drive. The recorder records all audio communications on the USB thumb drive. The recorded audio can be played back during the console's operation and at a later stage.

On the console display, the ARCS provides visual identification and real-time location of each firefighter.

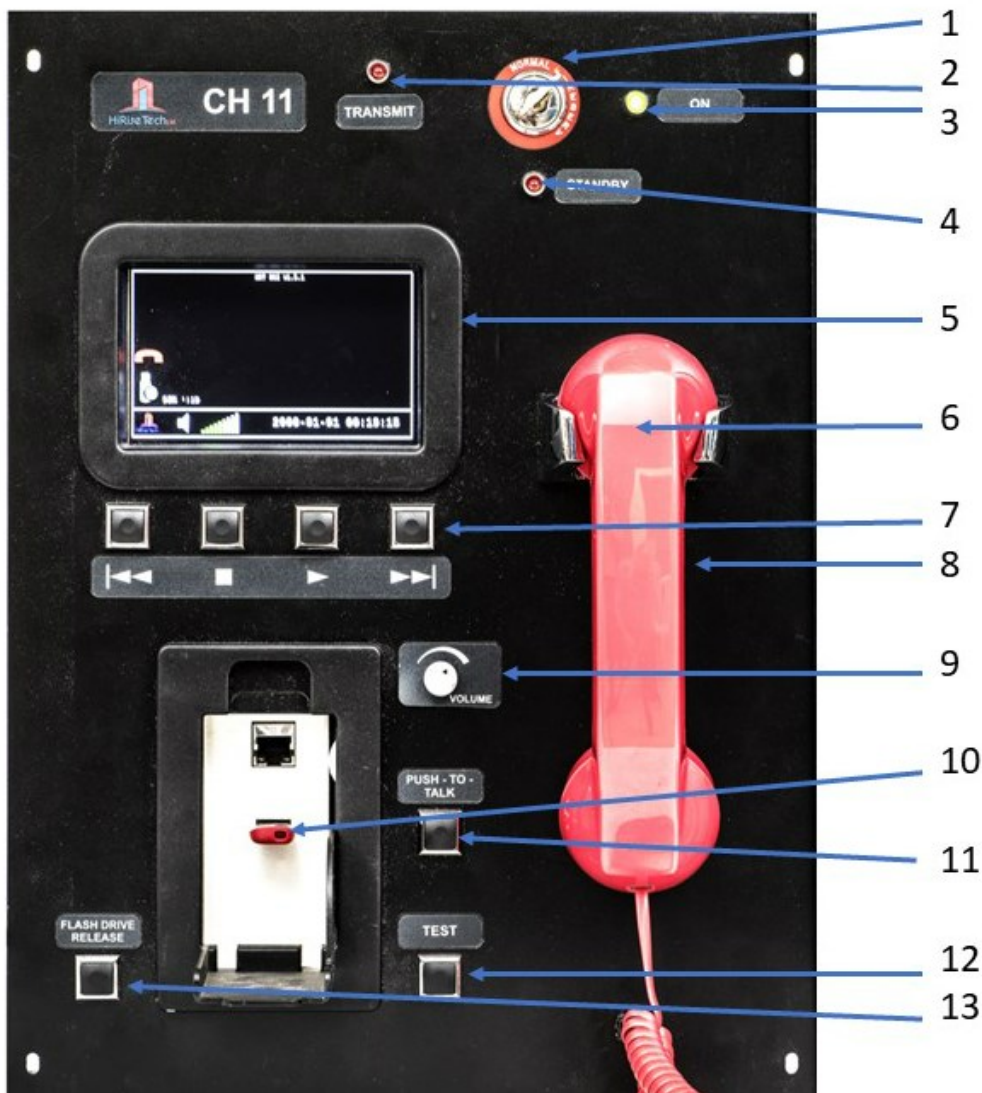
### 1.Activation

To activate the ARCS, the Console must be turned on. To turn on the Console:

1. Insert the FDNY 2642 key into the key slot and turn to the ON position. The red STANDBY lamp is extinguished and the green ON lamp lights.
2. Once the main screen is displayed, the ARCS Console is ready for use.

## 2. Console Controls and Indicators

This section provides an overview of all the controls and indicators on the ARCS Console and explanations for their use.



**Figure 2: ARCS Console Controls and Indicators**

The following table presents explanations for the ARCS Console controls and indicators as shown in Figure 2.










**Table 1: ARCS Console Controls and Indicators**

	Control or Indicator	Explanation
1	Key slot	An FDNY 2642 key is inserted into the key slot to turn on the ARCS Console.
2	TRANSMIT lamp	Lights red when a Console user is transmitting via the handset or the push-to-talk button.
3	ON lamp	Lights green when Console is activated.
4	STANDBY lamp	Lights red when Console is dormant.

	Control or Indicator	Explanation
5	Display	Indications of various ARCS activities are shown on the Display.
6	Handset	Used to communicate with personnel in the building.
7	Playback controls	Used to review recorded material on the flash drive.
8	Area speaker and microphone	When the Push-to-Talk button is depressed, communications is via this internal speaker and microphone (concealed by handset in Figure 2).
9	Volume control	Controls volume on both the handset and the internal speaker.
10	USB flash drive bay	Includes a port for a USB flash drive used to record all communications on the system.
11	Push-to-Talk button	Depressing the button activates communications via the built-in-speaker.
12	TEST activation button	Activates a system self-test.
13	FLASH DRIVE RELEASE button	When pressed, opens the flash drive bay door.

Table 2 presents a list of symbols appearing on the ARCS Console Display.

**Table 2: Symbols Appearing on the ARCS Console Display**

	Symbol	Explanation
1		Handset is dormant.
2		Handset is in use.
3		Operator is transmitting.
4		Firefighter is transmitting.
5		System is recording on USB flash drive.
6		System sound is active.
7		System sound is turned off.
8		USB flash drive not inserted in port.
9		USB flash drive inserted in port.

### 3. Communicating over the Console

To communicate using the handset:

1. Lift the handset from the cradle. The handset active icon is shown on the display (2, Table 2).

2. Press the button on the inner side of the handset to speak. The TRANSMIT lamp lights and the Operator Transmitting Icon (3, Table 2) is displayed.
3. Release the button to listen to connected parties. The Firefighter Transmitting Icon (4, Table 2) is displayed when one or more person is talking.
4. Adjust the volume of the audio using the VOLUME control.

NOTE: If the VOLUME button is turned off, the System Sound Turned Off icon (7, Table 2) is displayed. Otherwise, the System Sound Active Icon (6, Table 2) is displayed.

To communicate using the Push-to-Talk function:

1. Press and hold the Push-to-Talk button to communicate with the firefighters. The TRANSMIT lamp lights and the Operator Transmitting Icon (3, Table 2) is displayed.
2. Release the button to listen to connected parties. The Firefighter Transmitting Icon (4, Table 2) is displayed when one or more person is talking.
3. Adjust the volume of the audio using the VOLUME control.

NOTE: If the VOLUME button is turned off, the System Sound Turned Off icon (7, Table 2) is displayed. Otherwise, the System Sound Active Icon (6, Table 2) is displayed.

## 4. Recording the Audio on a USB Flash Drive

To record communications over a removable USB Flash Drive:

1. Prior to activating the system insert a USB flash storage device in the USB flash drive bay. Recording commences automatically.
2. To suspend recording, press the FLASH DRIVE RELEASE button.
3. To restart recording, press the ► button.

To record communications in the event that a USB flash storage device was not inserted in the USB flash drive bay.

1. Insert a USB flash storage device in the USB flash drive bay.
2. After a few seconds, recording commences.
3. To suspend recording, press the FLASH DRIVE RELEASE button.
4. To restart recording, press the ► button.

NOTE: The recorded audio can be played back during the console's operation or at a later stage.

## 5. Playing Back Audio from a USB Flash Drive

To play back audio when the system is inactive:

1. Insert the FDNY 2642 key into the key slot and turn to the ON position. The red STANDBY lamp is extinguished and the green ON lamp lights.
2. Once the main screen is displayed, playback can be activated.
3. Press the ► button to commence playback.
4. Press the ■ button to stop playback.
5. Press the ►► | button to skip ahead 20 seconds.
6. Press the | ◀◀ button to skip back 20 seconds.

NOTE: When play back is activated during recording, the system continues to record all audio in the background.

To play back audio when the system is active:

1. Press the ► button to commence playback. Playback will commence from the beginning of the latest recorded file.

NOTE: Conversations carried out when playback is active cannot be heard.

2. Press the ■ button to stop playback.
3. Press the ►► | button to skip ahead 20 seconds.
4. Press the | ◀◀ button to skip back 20 seconds.