

evoLution System User Manual		Doc. No.	52075-UM-01
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Revision History

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1. evoLution system



Figure 1-1 Overview System

This system is composed with 4 devices as ZBCHG-S device(1), ZBCHG-10 device(2), ZBHH device(3) and HHRT4 device(4) respectively. The feature of each device is described in below.

1. The ZBCHG-S device
 - o Single Handheld battery charging only
2. The ZBCHG-10 device
 - o 10 Handheld battery charging in simultaneously.
 - o File transferring with ZBHH devices.
3. The ZBHH device
 - o Touch screen device
 - o data transferring with other ZBHH device via 2.4GHz Zigbee wireless network
 - o Audio and video player,
 - o 8xLEDs display
 - o Vibration
4. The HHRT4 device
 - o Zigbee router

2. Usage sequence

The sequence to test each device in this system is described in below.

1. ZBHH Testing
 - a. Plug power to ZBCHG-10 device
 - b. Insert one ZBHH device and other ZBHH which has sticker “CO” (It is Coordinator device) into ZBCHG-10 then remove from ZBCHG-10 in order to wake-up ZBHH device. Both ZBHH will be reboot and ready to operate.
 - c. Place both ZBHH device in the room, they will communicate together via 2.4GHz Zigbee wireless network. One ZBHH device is end device that will send alive status to coordinator, while coordinator will received status and know that device still in the network.
2. ZBCHG-10 Testing
 - a. Plug power to ZBCHG-10 device
 - b. Insert 10 ZBHH devices into each slot to charge battery. The 7-Segment on each ZBHH device will be blinking (which is charging status).
3. Charger-1 Testing
 - a. Plug power to ZBCHG-10 device
 - b. Insert 1 ZBHH devices to charge battery.
 - c. The 7-Segment on each ZBHH device will blinking (which is charging status).
4. HHRT4 Testing
 - a. Plug power to ZBCHG-10 device
 - b. Insert one ZBHH devices to ZBCHG-10 device then remove in order to wake-up ZBHH device.
 - c. Touch screen 2 times on screen corner right-up and left-down then enter password “3412”, Setting Parameter screen will be displayed.
 - d. Select Handheld mode to be “HHRTCoor” then press SAVE button. ZBHH device will reboot.
 - e. Place HHRT4 device and ZBHH device together in the room. Plug power to HHRT4 device. They will communicate together via 2.4GHz Zigbee wireless network. HHRT4 device is end device that will send alive status to ZBHH while ZBHH will received status and know that HHRT4 still in the network.

Hand Held devices are issued to end users enabling the corporation or institution to electronically feed multimedia to each individual user.

Typical sequence of process:

1. Issue Hand Held to end user.
2. Hand Held scrolls through preselected images and videos at predefined timing intervals.
3. When end user is required at issue point a CALL message is sent to the Hand Held.
4. The end user is also able to use a text messaging feature to request repeats of predefined media from the Master Hand Held.
5. Hand Held is returned to charger at the process end in order to recharge the battery and retrieve the end user actions recorded as a LOG file.
6. All user actions are prompted for on the TFT/LCD of the Hand Held.

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

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 undesired operation.