

# Quick Start Guide

CREWCOM®



## Getting Started

This Quick Start Guide is a basic reference for information on setting up your CrewCom system with the minimum equipment required and without the aid of CrewCom's software application, CrewWare. For complete operation instructions, see the CrewCom devices' Operating Manuals, which are available at [www.plianttechnologies.com](http://www.plianttechnologies.com).

### Minimum Equipment Required:

- 1 Control Unit (CU)
- Up to 6 Radio Packs (RPs) with charged batteries
- 1 Radio Transceiver (RT)
- Minimum of 2 headsets to test communication
- 1 Cat 5e (or greater) cable (for CU to RT connection)

**Note:** Additional compatible CrewCom devices can be connected together; however, it is strongly recommended that you use CrewWare to configure the system in this case. CrewWare allows for a more customized system setup.

### Plan Your Coverage Area

Before installation begins, it is a good idea to plan your coverage area so that equipment is positioned in the best possible locations. Here are some tips when planning your coverage area:

- Map out the site and identify the most critical areas where communication is needed.
- Consider cable length limitations during planning. Copper: 300 ft. (100 m). Fiber: 32,800 ft. (10 km).
- Locate antennas in open spaces and avoid obstructions (especially metal).
- If using omni-directional antennas, position antennas in center of coverage area and as high as possible.

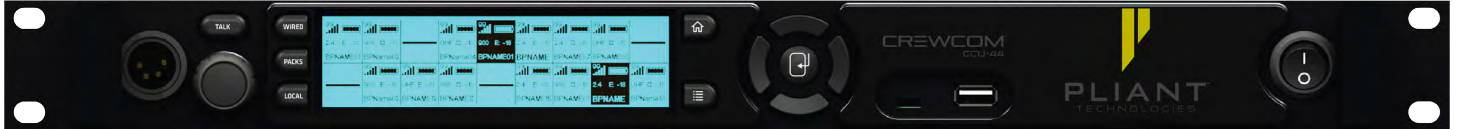
# Quick Start Guide

CrewCom

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## Install Control Unit (CU) and mount Radio Transceiver (RT).

- A. Place the CU on a flat, dry surface, or in a desired rack-mounted location (rack screws not included).



Control Unit (CCU-44)

- B. Connect the CU to a compatible outlet using provided AC power cord, but **do not** turn ON power yet.
- C. Attach provided omni-directional antennas (2) to the RT and mount the RT in the center of desired coverage area as high as possible and away from any obstructions (especially metal).

**Note:** If using directional antennas, mount them on the edge of the coverage area and point antennas across coverage area.



Radio Transceiver (CRT-2400)

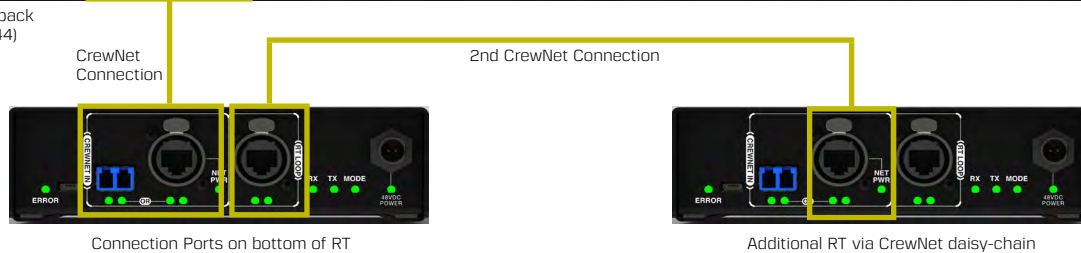
2

## Connect your RTs.

- A. Connect at least one RT to the CU via an available CrewNet™ port.
- B. If you have additional RTs, connect via an available CrewNet port on a CU or Hub, or by daisy-chaining to an existing RT.



Connection Ports on back of Control Unit (CCU-44)



Connection Ports on bottom of RT

Additional RT via CrewNet daisy-chain

### CrewNet Port Types

**RJ-45 Ports** - Use supplied Cat 5e cable, or your own Cat 5e (or greater) cable. Any CrewCom device connected to CrewNet via a Cat 5e (or greater) cable will receive network power from the CU via the CrewNet port. In some situations, there may be too many connected devices or the cable lengths may be too long for the “network power” to support; this will be indicated by the NET PWR LED lighting red. In this case, one or more supplemental 48VDC power supplies (PPS-48V sold separately) must be used.

**Fiber (Optical)** - For a fiber CrewNet port, a single mode fiber cable (duplex, LC connector) will be required (up to 32,800 ft./10 km in length). Any CrewCom device connected to CrewNet via fiber port must receive power via a 48VDC power supply (PPS-48V sold separately).

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### Power ON and configure the system.

- A.** Once all desired CrewNet connections are made, power ON the CU; this will distribute power to any CrewCom device connected via Cat5e (or greater).
- B.** The CU will immediately begin verifying firmware compatibility of each connected device. All devices on a CrewCom system must possess the same firmware as the CU in order to be added to the system. If applicable, update your device firmware. (This will require connectivity to a PC and CrewWare.)
- C.** If applicable, accept device(s) to the system configuration.

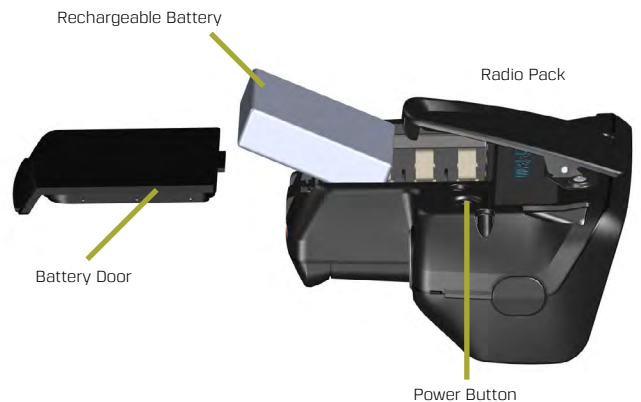
**Note:** When accepting an RT, you will also be prompted to select a Radio Band, Hopping Pattern, and Mode of Operation for the device. The system will recommend setting selections based on the current system configuration; you may accept the recommendations or you may optionally change these settings via the front of the CU.

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### Install batteries into Radio Packs (RPs).

- A.** Before powering on an RP, remove the battery door.
- B.** Install a fully charged Lithium-Polymer rechargeable battery, or three AA batteries.
- C.** Place battery door back on the RP and securely close it.

**Note:** RPs are powered with one Lithium-Polymer rechargeable battery for over 9 hours of operation, or they may be powered with three AA batteries for up to 5 hours of operation.



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### Pair the RPs.



- A.** Remove the USB cover on the RP and connect the RP to the CU using the supplied USB-A to Micro-B USB cable. The RP will automatically power on if not already on.
- B.** Upon powering on, the pairing process will begin automatically; follow the prompts on the RP display. Do not disconnect until prompted.
- C.** During pairing, you will be prompted by the RP to select a profile. Only profiles that are compatible with the connected RP will be available for selection.
- D.** Once pairing is complete and you are prompted, disconnect the RP; it will power off automatically.
- E.** Power the RP back on and confirm that it logs into the CU and displays on the CU display. Pairing is complete.

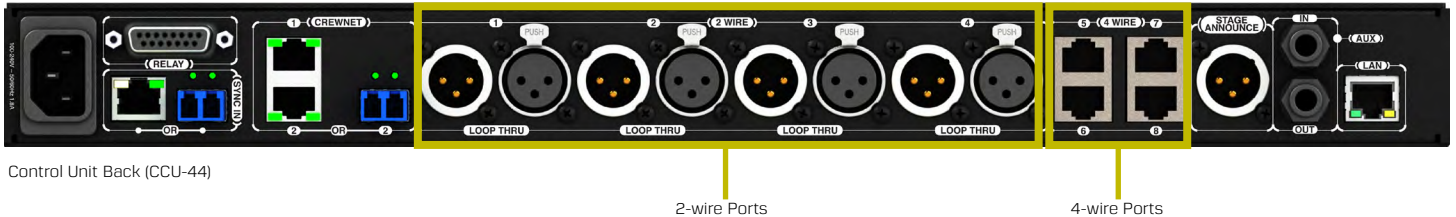


Radio Pack (CRP-44-2400)

**Note:** CrewCom CUs provide default profiles that can be used out-of-the-box. For a more customized profile experience, users can create new profiles using CrewWare.

## Connect 2-wire and 4-wire.

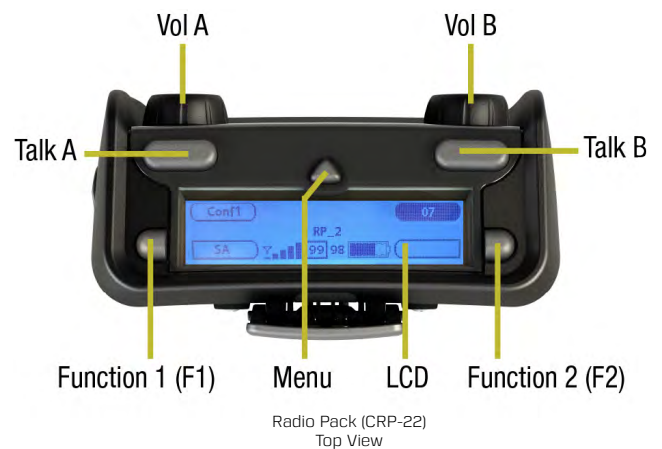
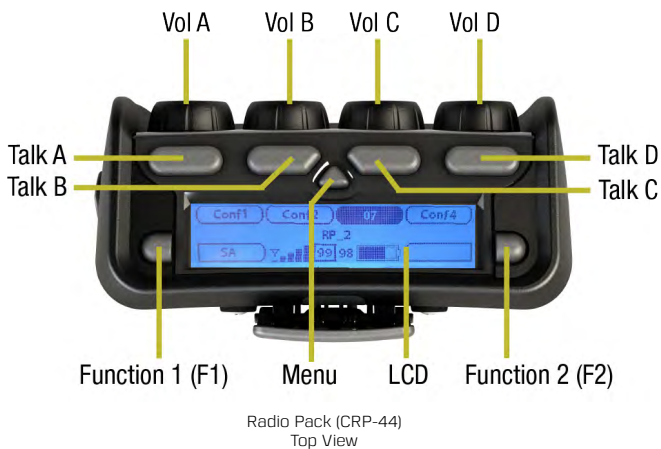
- A.** If connecting a 2-wire intercom system, connect it to the 2-wire intercom port(s) on the back of the CU. Pliant recommends nulling the lines from the CU's Wired Settings menu. Please see the *CrewCom Control Unit Operating Manual* for more information on this process.
  - B.** If connecting a 4-wire intercom system, connect it to the 4-wire intercom port(s) on the back of the CU.
  - C.** Once connected, 2-wire and 4-wire intercom settings can be configured by pressing the WIRED button on the front of the CU.
- Note:** The 2-wire and 4-wire ports will be automatically assigned to conferences 1–8 (or 1–4 on a CCU-22). If desired, you may reassign them via the CU menu or CrewWare. For more information on this process, please see the *CrewCom Control Unit Operating Manual*.



**Note:** In addition to 2-wire and 4-wire, connections such as GPO relays, Stage Announce, Auxiliary In, and Auxiliary Out can be made to the CU. For more information on these features, please see the *CrewCom Control Unit Operating Manual*.

## Start communicating.

- A.** Plug a headset into each RP.
- B.** Adjust the headset listening volume by turning each conference's volume control knob.
- C.** Press the Talk button to talk to others on the selected conference; you can listen and talk on multiple conferences at a time.
- D.** Confirm the desired conference and talk status by observing the RP's LCD.



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