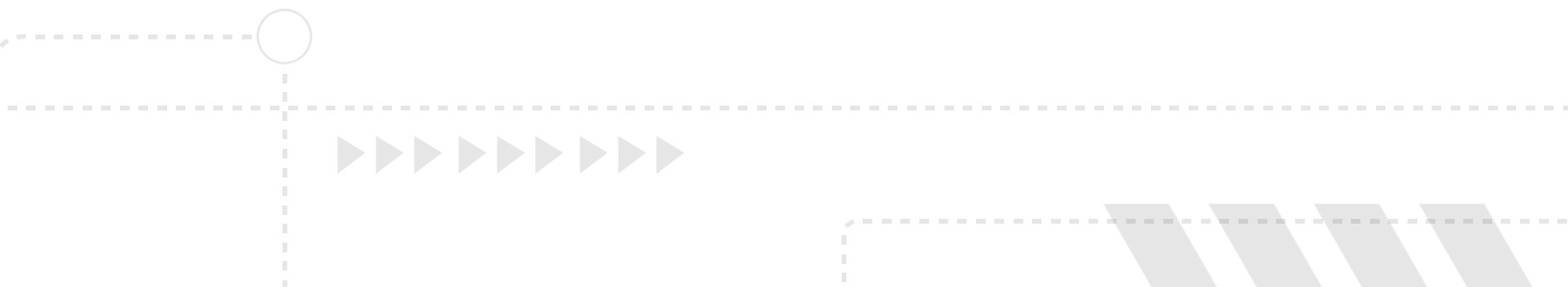


**PLIANT**  
TECHNOLOGIES



**CREWCOM**

INTERCOM  
EVOLVED



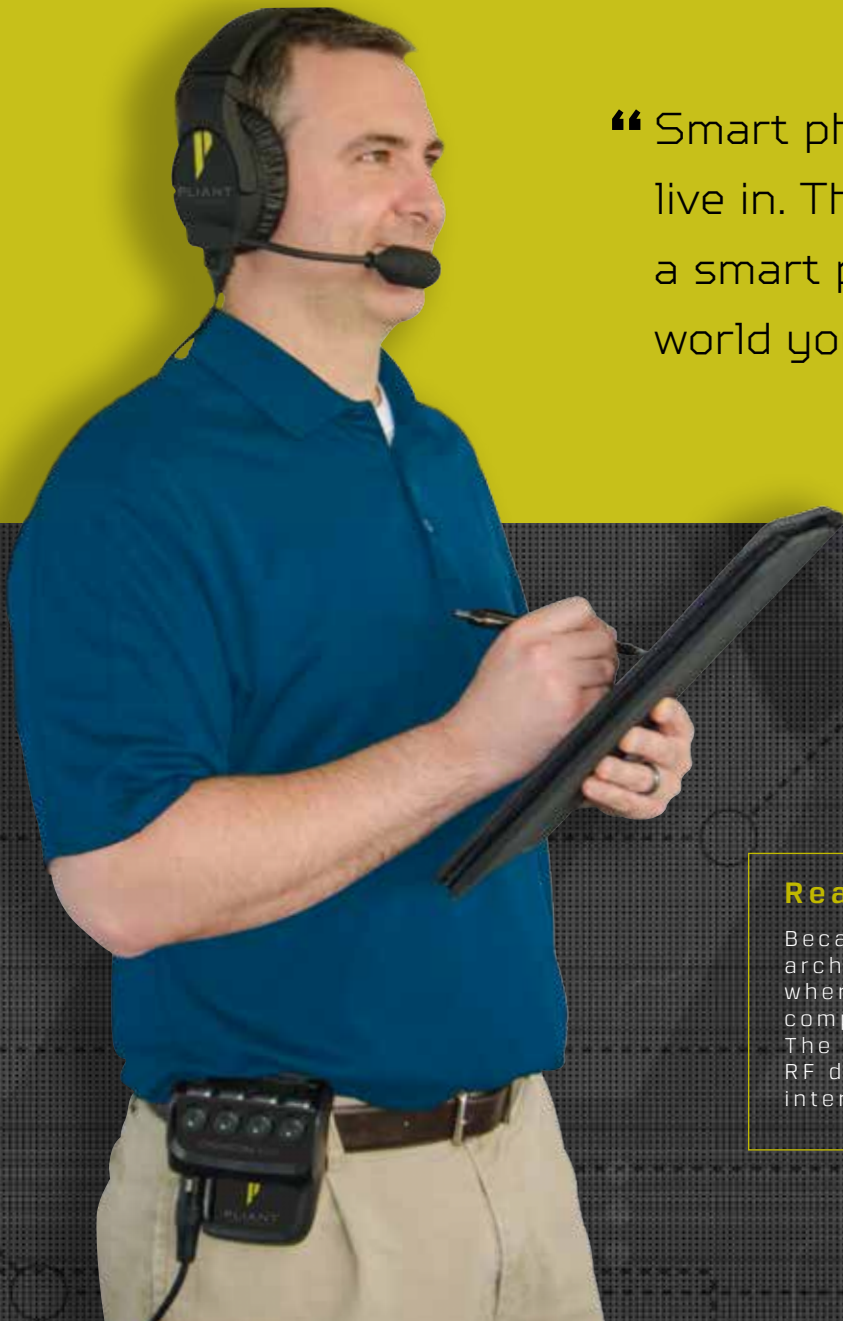
# The evolution starts with the introduction of **CrewCom**, a new concept in wireless intercom.

## Innovation for the toughest professional applications

Intuitive yet powerful system features and exceptional audio clarity in a compact and rugged Radio Pack makes CrewCom the ideal solution for any application from simple to large-scale designs.



“Smart phones changed the world we live in. The CrewCom Radio Pack is a smart pack, and it will change the world you work in.”



## Reach farther. Reach more people.

Because CrewCom employs a decentralized architecture, you can extend coverage to precisely where your resources are needed. Expensive and complicated system designs are a thing of the past. The future is scalability, simple global-friendly RF deployment, and adaptability to any wireless intercom application.

Pack

# Think Outside the ~~Box~~

## DEVICE PROFILES

Tailor each pack or group of packs for individual workflows.

## EFFICIENT

Extended operating times using Li-poly or AA alkaline batteries.

## FAMILIAR INTERFACE

Same volume, talk, and other controls you're comfortable with using.

## CONFERENCES

Join the conferences that apply to your role.



## ADVANCED RF

Go where you need to go with industry-leading reliable wireless technology.

## INTUITIVE CONTROLS

You are in complete control. Mix conferences to listen to what is important to you.

## WIRELESS ISO

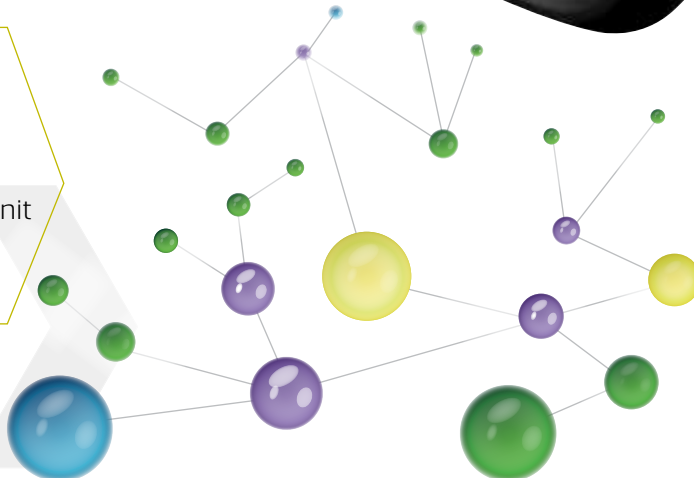
Talk to customized wireless groups while continuing to take cues from the conference.

## COMPACT DESIGN

One of the smallest and lightest packs in the industry, weighing only 13oz. (910g)

## CrewCom Devices

- Control Unit
- Hub
- Audio Expansion Unit
- Radio Transceiver





# Radio Packs

Innovation at your fingertips



Designed and engineered to excel in the toughest applications around the world

- » Lightweight, compact size
- » 7kHz digital audio voice quality
- » Familiar user interface with top-facing display
- » Customized workflow with assignable function buttons
- » Access to any of up to 1024 available conferences
- » Wireless ISO function on every conference



**CRP-22**  
2-Volume/2-Conference Radio Pack

**The CrewCom Radio Pack** – Intended for the most demanding professional applications, the CrewCom Radio Pack is a highly advanced and innovative design using the latest technology to offer a digital wireless beltpack used for connecting mobile users to the CrewCom system. Along with full-duplex multi-conference communications, the Radio Pack combines flexible conference access and customizable controls for a highly functional, yet familiar user experience.

## Radio Pack Models

**CRP-22-900\***  
900MHz

**CRP-22-900 AN\*\***  
900MHz

**CRP-22-2400**  
2.4GHz

**CRP-22-2400CE**  
2.4GHz CE

**CRP-44-900\***  
900MHz

**CRP-44-900 AN\*\***  
900MHz

**CRP-44-2400**  
2.4GHz

**CRP-44-2400CE**  
2.4GHz CE

\*This product ONLY available in North America

\*\*This product ONLY available in Oceania



**CRP-44**  
4-Volume/4-Conference Radio Pack



# Control Unit

The heart of revolutionary intercom communications

## Interface, control, and monitoring of all wired connections and wireless devices



CCU Front



CCU-44 Rear



CCU-22 Rear

**The Control Unit (CU)** is the foundational element of the CrewCom system, and it establishes the CrewNet-based infrastructure while also providing external connections to common established intercom systems. By design, the CU contains no radio and is frequency agnostic; therefore, any device can be controlled and monitored across CrewNet regardless of radio frequency bands being utilized.

### Control Unit Models

CCU-44

4+4 Channel

CCU-22

2+2 Channel

- » Easy-to-use interface with large, informative, backlit LCD display and quick access controls
- » Simultaneously active 2-Wire and 4-Wire connection allowing compatibility with any industry standard intercom system
- » Front panel USB ports for Radio Pack pairing, CrewCom device firmware updates, and computer connectivity
- » CrewNet connections support both Single Mode Fiber and traditional Cat 5e or greater

### The Backbone: CrewNet™

CrewNet is a newly-developed, robust, and reliable proprietary network designed specifically for the demands of critical communication environments. It is the backbone for interconnection between CrewCom devices, which is key to the decentralized network architecture. CrewNet is capable of deploying a CrewCom system over a very large coverage area with Cat 5e (up to 100 m) and/or Single Mode Fiber (up to 10 km).

# Radio Transceiver

RF coverage beyond any product ever offered

## Remarkably effective RF coverage to even the most remote areas



CRT-2400 Front



CRT-2400 Bottom

**The Radio Transceiver (RT)** puts RF specifically where needed.

It houses a radio with corresponding antennas and serves as an access point, enabling RF communications with CrewCom Radio Packs. Using CrewNet as a backbone, a large number of RTs can easily be positioned on the network over a wide coverage area through direct connection to a Control Unit or Hub(s), or through daisy-chain configuration with each other.

- » Selectable Normal or High Density mode of operation where up to 6 Normal or 32 High Density Radio Packs can be used simultaneously
- » Individual model support for two separate RF bands
- » etherCON or Single Mode Fiber CrewNet inputs with an additional etherCON CrewNet thru connection to daisy-chain up to 8 Radio Transceivers
- » Dual powering options with either network power or external power [48VDC]\*\*

### Radio Transceiver Models

<b>CRT-900*</b> 900 MHz	<b>CRT-2400</b> 2.4GHz	<b>CRT-2400CE</b> 2.4GHz CE
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**CRT-900 AN\*\***  
900 MHz

\*This product ONLY available in North America

\*\*This product ONLY available in Oceania

### 900MHz or 2.4GHz - What works best for you?

#### CrewCom 900MHz

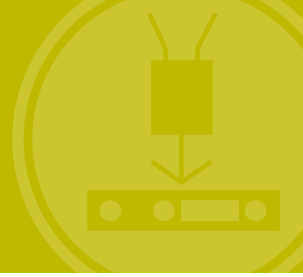
- » Can only be used in North America, Australia, and New Zealand
- » Less user density than CrewCom 2.4GHz
- » Better propagation through solid structures
- » Approximately 1970ft. (600m) line of sight range
- » Spectrum is not near WiFi

#### CrewCom 2.4GHz

- » Can be used worldwide
- » Higher user density than CrewCom 900MHz
- » Primarily for line-of-sight applications
- » Approximately 1500ft. (450m) line of sight range
- » Same spectrum as WiFi, but is WiFi friendly

# Expansion Devices

Extend your connectivity and expand the possibilities



## Flexible CrewNet distribution and multiple device connection to extend system coverage needs

**The Hub** supplies a total of eight CrewNet ports to allow extended interconnection for a variety of CrewCom devices.

Both the copper and fiber versions include dual powering options (network power or supplied external 48VDC\*\* power supply) along with clear indicators of network and device status using front and rear panel LEDs.



CHB-8C Front



CHB-8C Rear



CHB-8F Front



CHB-8F Rear

### Copper Hub

- » Support for up to 8 copper CrewNet ports with one shared port that is either Single Mode Fiber or copper (Cat 5e or greater)
- » Supplies distributed network power over CrewNet to up to 7 supported ports

### Fiber Hub

- » Support for up to 8 fiber CrewNet ports with one shared port that is either Single Mode Fiber or copper (Cat 5e or greater)

## Expanded intercom audio connectivity resources exactly where you need them

**The Audio Expansion Unit** is a device with 2-Wire and 4-Wire ports to enable extended connectivity with industry-familiar external intercom devices.



CXA-4244 Front



CXA-4244 Rear

- » Ready for any professional intercom environment with simultaneous use of up to four 2-Wire connections and four 4-Wire connections
- » CrewNet connection supports a Single Mode Fiber or traditional Cat 5e or greater
- » Front and rear panel LED status indications
- » Dual powering options with either network power or external power (48VDC)\*\*

\*\*CrewCom devices connected to CrewNet via a fiber port must receive power via a Pliant 48VDC power supply. (Sold Separately)

# Headsets

Innovative flip-up microphone muting

## Exceptional comfort, flexibility, and durability as required in the most demanding professional environments

The **SmartBoom®** series of headsets make up a new and innovative line of communications headsets that incorporates a convenient flip-up microphone muting function in addition to many other convenient features useful for any professional communications application.

### SmartBoom PRO Key Features

- » Enhanced acoustic isolation
- » SmartBoom flip-up microphone mute
- » Flexible, ambidextrous swiveling mic boom
- » Closed-back, over-ear design
- » Noise-cancelling cardioid microphone optimized for voice communications



SB100



SB200

### SmartBoom LITE Key Features

- » Single-ear lightweight design
- » Closed-back, on-ear design
- » Flexible, ambidextrous swiveling mic boom
- » SmartBoom flip-up microphone mute
- » Noise-cancelling cardioid microphone optimized for voice communications



SB10L

### Headset Models

#### Single-Ear SmartBoom PRO

PHS-SB100-4F	4-pin Female XLR
PHS-SB100-5M	5-pin Male XLR
PHS-SB100-U	Unterminated

#### Dual-Ear SmartBoom PRO

PHS-SB200-4F	4-pin Female XLR
PHS-SB200-5M	5-pin Male XLR
PHS-SB200-U	Unterminated

#### Single-Ear SmartBoom LITE

PHS-SB10L-4F	4-pin Female XLR
PHS-SB10L-5M	5-pin Male XLR
PHS-SB10L-U	Unterminated



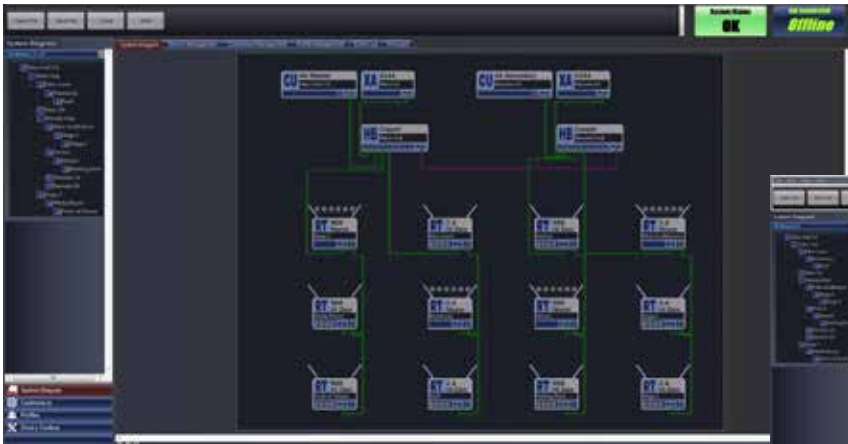
# CrewWare

System software has never been easier



## With CrewWare, one software application takes offline and online system management to a completely new level

**CrewWare™** is expressly designed to allow the user to take full advantage of CrewCom's powerful, straightforward, and flexible system architecture. This revolutionary software tool was created for CrewCom system construction, device control, and live monitoring. It was developed to facilitate graphical-based planning and implementation of any system, whether simple or extensive.



### Offline Operation

Drag-and-drop CrewCom devices and draw connections to graphically build and lay out your CrewNet-based system. Once completed, save and edit configuration files to preserve all of its information. As a way of providing useful system documentation, CrewWare can also print a hard copy of your entire system and its connectivity.

- » Create and manage conferences and profiles
- » Clone profiles with ease
- » Administer system-wide inputs and outputs with drop-down port assignment selections
- » Manage system access rights
- » Manage firmware updates from a single location



### Online Live Operation

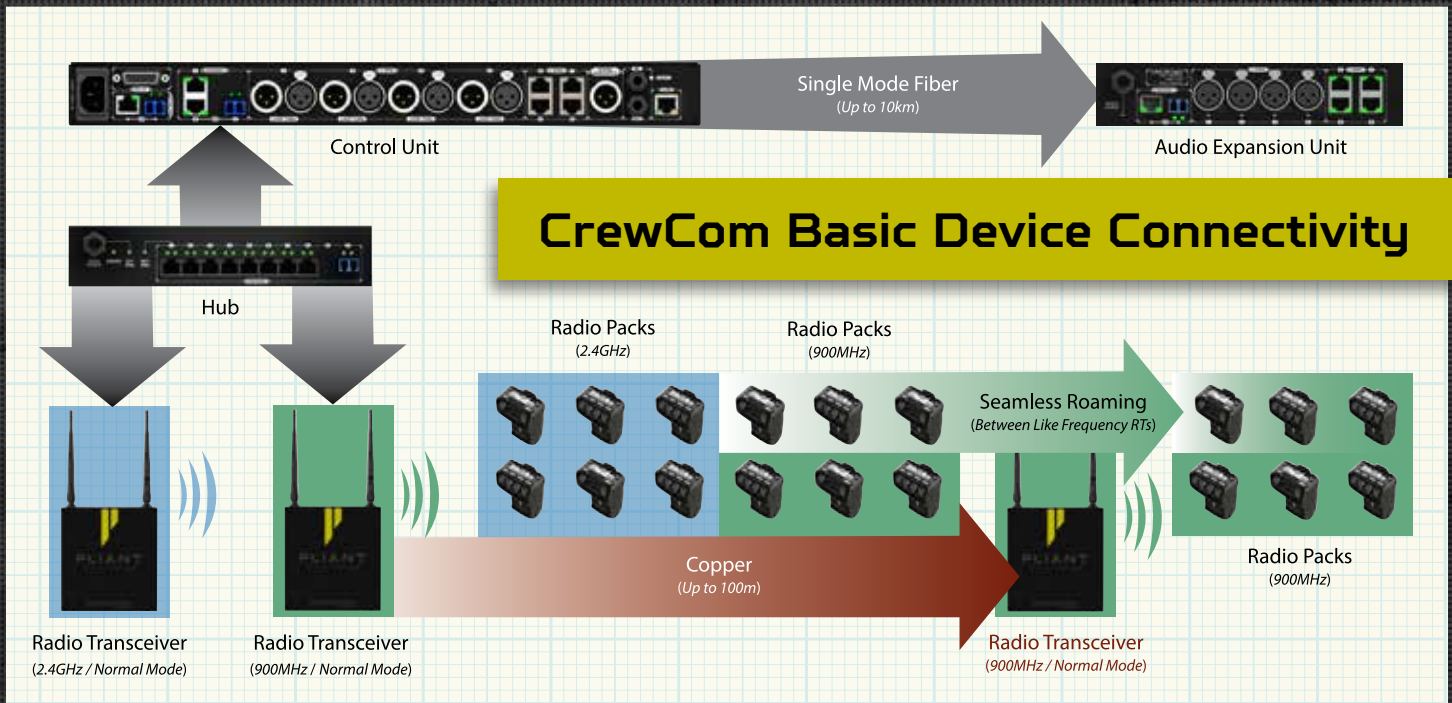
During live operation, CrewWare provides extensive system monitoring as well as individual control of any CrewCom device.

- » Monitor and control wireless Radio Packs in real time
- » View system error alerts and event logging lists
- » Debug any device on the CrewNet network in real time
- » Receive software prompts as you physically add or remove system components on the CrewNet network



# System Examples

900MHz and 2.4GHz specifications



Control Unit	BASIC NORMAL Up to 6 Normal RPs 900MHz or 2.4GHz	MAX NORMAL & HIGH DENSITY ONE AREA Up to 18 Normal & 32 Hi Den RPs 900MHz or 2.4GHz	NORMAL & HIGH DENSITY TWO AREA ROAMING Up to 18 Normal & 32 Hi Den RPs 900MHz or 2.4 GHz	NORMAL & HIGH DENSITY SYSTEM MAX Mixed 900MHz or 2.4GHz RTs Strategically Placed for Coverage
	 NORMAL x1	 NORMAL x3    HI DEN x1	 NORMAL x3    HI DEN x1	 900MHz ANY MIX NORMAL/HI DEN x14*  2.4GHz ANY MIX NORMAL/HI DEN x32
	 NORMAL x6	 NORMAL x18    HI DEN x32	 NORMAL x18    HI DEN x32	 NORMAL x72    HI DEN x128

## System Specifications\*\*

System-Level	900MHz Devices***	2.4GHz Devices
RF Frequency	902-928 MHz (915-928 MHz for AN models)	2400-2483 MHz
RF Scheme	FHSS with TDMA	
Effective Radiated Power	315 mW (+26 dBm)	100 mW (+20 dBm)
Receiver Sensitivity	-100 dBm	-100 dBm
Transmission Range	650 ft. (200m) under typical conditions; 1970 ft. (600 m) line of sight†	500 ft. (150m) under typical conditions; 1500 ft. (450 m) line of sight†
Audio Dynamic Range	Greater than 90dB	
Audio Frequency Response	150Hz-7kHz	

\* Due to regulatory limitations, up to seven CRT-900AN devices may be used. \*\* Notice About Specifications: While Pliant makes every attempt to maintain the accuracy of the information contained in these specifications, this information is subject to change without notice. Please check our website for the latest system specifications and certifications. \*\*\* 900MHz products only available in North America, Australia, and New Zealand. AN models operate in a reduced frequency band. † Functional range depends on many variables, including RF signal absorption, reflection, and external interference.

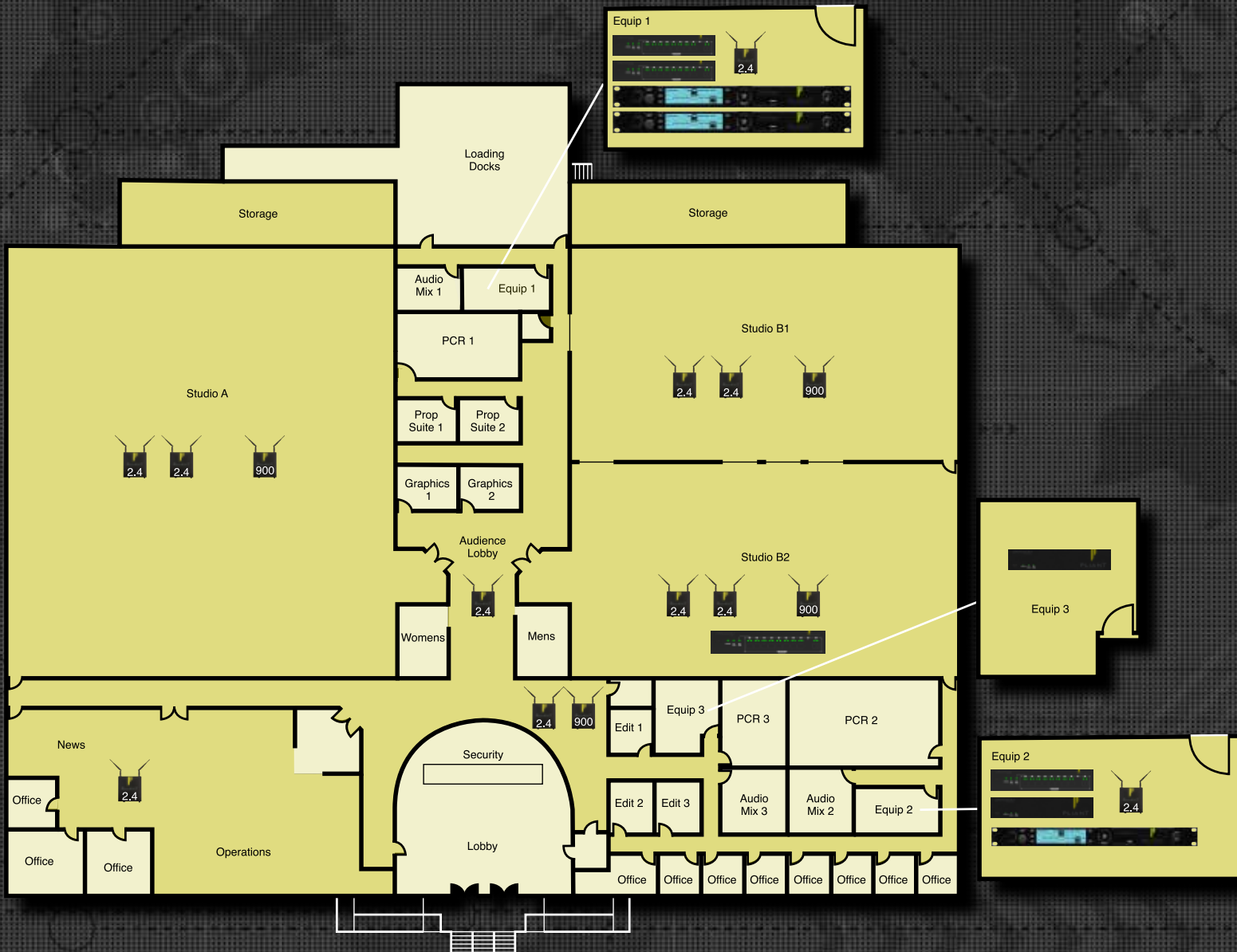
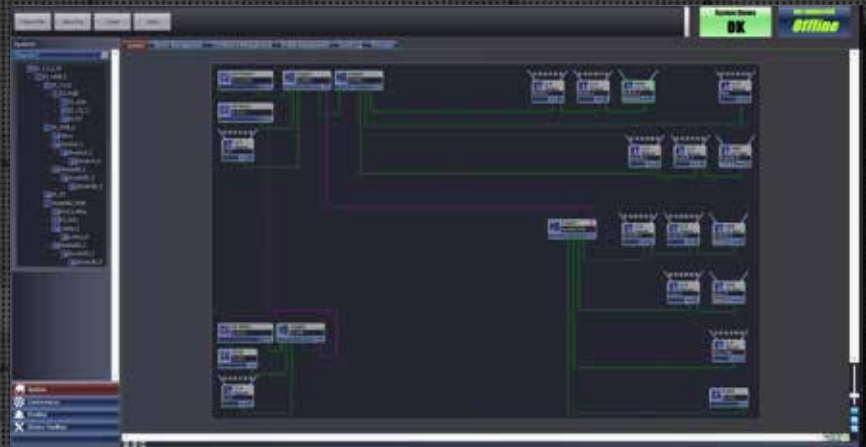


# Multi-Studio Production Application

Sample Configuration and Coverage Area Deployment

## Equipment List

4x4 Control Unit	3
Copper Hub	4
Audio Expansion Unit	2
2.4GHz Radio Transceiver	11
900MHz Radio Transceiver	4
2.4GHz Radio Pack (4 volume)	18
2.4GHz Radio Pack (2 volume)	18
900MHz Radio Pack (4 volume)	6
900MHz Radio Pack (2 volume)	30





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**CE DISCLAIMER:** In accordance to the CE, EMC Directive, Article 5, Paragraph 3, all CrewCom branded models will not be made available to the market or put into service until they have been brought into conformity with said Directive.

**FCC DISCLAIMER:** The following device models have not been authorized as required by the rules of the Federal Communications Commission. These devices are not, and may not, be offered for sale or lease until authorization is obtained.  
Models: CXA-4244 (Audio Expansion Unit)

Pliant Technologies, the professional intercom division of CoachComm, has been created to address the unique needs of customers in the professional marketplace. CoachComm is best known for the revolutionary Tempest® wireless intercom system, which is used daily across more than 40 countries in industries such as broadcast, live-sound, theater, theme park, sports, event management, and maritime as well as in many other applications. Developing communication technologies that are dependable, durable, and easy-to-use has made CoachComm the worldwide leader in critical communication solutions. Along with the new Pliant division comes new, revolutionary products. Following on the success of the Tempest wireless intercom product line launched in 2009, our team has once again redefined wireless intercom for professional and industrial users. Pliant now delivers yet another major innovation in wireless intercom technology: **CrewCom.**

