



Rescue/Refuge Assistance 4800 IP



# Area of Rescue / Refuge Assistance IP Emergency Communication System

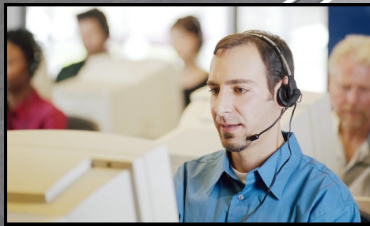
Designed for:  
IBC 2021,  
NFPA and ADA 2010  
Standards



Expandable up to  
500 Stations



**PUSH FOR HELP**  
■■■■ ■■■■  
IN THE EVENT OF AN EMERGENCY,  
PUSH THE HELP BUTTON FOR  
EVACUATION ASSISTANCE  
PERSONS ABLE TO USE THE EXIT  
STAIRWAY DO SO AS SOON AS  
POSSIBLE, UNLESS THEY ARE  
ASSISTING OTHERS  
WAIT HERE FOR ASSISTANCE !  
CALLS MAY TAKE SEVERAL MINUTES  
YOUR LOCATION CORNELL



Connection available for  
2 way voice communication from  
the station to an  
Emergency Call Center by  
POTS, SIP, or BSM.



Base Station shown.  
Add up to 2 remote base stations  
to meet your needs.

CORNELL COMMUNICATIONS, INC.

Milwaukee, Wisconsin USA • 800-558-8957 • 414-351-4660 • Fax 414-351-4657  
www.cornell.com • sales@cornell.com



D4800 IPC  
Rev 210614

## Core Component Descriptions

Component	Model	Description
Master Control Electronics	4800 IPM-20	Area of Rescue System for up to 20 Devices—8 Devices Directly
	4800 IPM-50	Area of Rescue System for up to 50 Devices - 8 Devices Directly
	4800 IPM-100	Area of Rescue System for up to 100 Devices - 8 Devices Directly
Base Station	A-4800 IPG	Telephone w/ Standard Desk Stand, Optional Wall Mount Cabinet
Expansion Switches	4800 IP-EXL	Expansion Modules - requires 1 for each 7-8 Call Stations
Call Stations	4800 VIP	Standard Call Station w/ Red Mushroom Button
Back Boxes	BB-49 IPM	Enclosure for 4800 IPM –20 –50 –100 Devices
	BB-48 IPA	Telephone Cabinet w/Window
Optional Battery Back up Power Supplies	P-2410	24V Power Supply with 10A Fuse & 120V Power Cord To Power Expansion Switches
	UPS-4800IP-MB	2U Rack Mounted UPS (Up to 3 hrs of backup) w/dry contact monitoring
	UPS-4800IP-EX	2U Rack Mount Extra Battery Module (Each one adds up to 11 hours of backup)
	UPS-4800IP-WM	Bracket to Wall Mount Maximum of (1) UPS-4800IP-MB + (1) UPS
	B-5248A	24VDC Supplied with (2) 12 Volt / 7 Ah Batteries
Signage	Customer Specific	Mandatory Call Station Instructional Sign P/N SN-C48 Other Optional Signage - Call Cornell

### Specifications

The 4800 IP Emergency Communication System is designed to provide fully supervised, full duplex voice communication, between each call station and Base Station(s). An internal modem, connected to a telephone line, provides an automated-timed dial-out capability to an alternate monitoring location. The –20 can support up to 20 devices, –50 can support up to 50 devices, and the –100 can support up to 100 devices. By special order, 500 devices can be supported—please contact Cornell for a quote. The Main System itself can host 8 devices (phones or call stations); additional devices can be hosted via expansion switches (4800 IP-EXL). The 4800 IP Emergency Communication System shall poll (supervise) all the Call Stations, Base Stations, and Expansion Switches on a continuous basis, to identify line faults and defective equipment. Activated Call Station locations and fault information will be alerted and displayed at each of the Base Stations. Each 4800 VIP Call Station is equipped with an auxiliary set of momentary form “C” contacts that can be used to activate external devices, such as a camera, strobe, or tone device.

### Wiring and Power Requirements

The 4800 IP Emergency Communication System utilizes the following three types of wiring.

- Cat5e cable, Standard straight - through, TIA/EIA 568A or TIA/EIA 568B, from the Control Panel and Field Switches, to the Call Station's and to the phone line.
- 120 VAC Power Cord
- Cornell tested 2 hour UL Cable

The Power Supply operates at 24VDC 15Amp 60 Hz single phase power.

### Principles of Operation

ACTIVITY	BASE STATION	CALL STATION
Standby mode	Phone is in standby mode, screen saver may transition screen to dark mode, indicator light is off.	Indicator light on for 0.5 seconds every 10 seconds.
Button pushed at call station	Indicator light blinks, screen identifies which Call Station is calling.	Programmable message is played. Indicator light on 0.5 seconds every 1.0 seconds.
Call received at Base Station	Indicator light flashes, the screen shows which Call Station is active in the call. Responder answers call and indicator light goes off, screen shows “Talking” to active Call Station, screen shows running time in call.	Indicator light on 0.5 seconds every 1.0 seconds. Hands free full-duplex communication when Responder answers call.
No response at Base Station – call transferred to Remote Call Center – answered by a live operator	Indicator light goes off. Screen shows Active Call from the Call Station that made the call. Barge-In button on screen becomes active. Active Call button flashes Red when Remote Call Center operator is connected to Call Station.	Programmed message plays when call is forwarded to Remote Call Center. When live operator receives call, indicator light on for 0.5 seconds every 10 seconds. When operator presses # to connect to the caller, indicator light on 0.5 seconds every 1.0 seconds and hands free full-duplex communication begins.
Base Station or Remote Call Center operator end call	Phone returns to standby mode, screen saver may transition screen to dark mode, indicator light is off.	Indicator light on for 0.5 seconds every 10 seconds.
System fault	Indicator light blinks, screen shows fault occurred. When user answers phone, the specific fault is announced.	Indicator light is off.

