



### Description

The NC-2000 is an advanced nurse call solution that couples mesh networking technology with ultrasonic signaling to accurately identify and respond to emergency events. Forming the back bone of the highly reliable 802.15.4 wireless network. This network provides a self forming, self healing “mesh” type transport when routing messages to/from the MiCare Coordinator.

With its built-in telephony communication module, the NC-2000 provides two-way voice communication, in addition to the wireless network. This enhances the quality of care through situational assessment and awareness.

The NC-2000 Patient Unit connects with our Central Software and IC2 peripherals to provide extended coverage, enhanced notifications, real-time visual displays, shift management, patient/resident medical profiles, and customized rules by event, group, room or person.

### Features

- Extended coverage using the IC2 Beacons, ZF1's, Pull Cords and Pendants.
- Unique identification with all networked units and associated peripherals.
- Two-way voice communication for situational assessment and awareness.
- Centralized programming from our IC2 Central Software using global or targeted configurations.
- Emergency, code blue, nurse presence, staff assist, maintenance, cancel, and custom buttons.
- Four supervised inputs for wired pull cords, environmental triggers, and personal monitors.
- Four dedicated outputs NO & NC for dome lights, locks, and other devices.
- Device heartbeat, low battery, external power and line failure detection.
- Ergonomic design with germ wipeable plastic on all devices.
- Easy installation for retrofit sites and new builds.
- Flexible power requirement, 24V-48V AC or DC polarity independent
- 4 Dome light support included
- Overhead paging support included
- On board battery backup
- Gently backlit emergency and code blue buttons
- Two supervised unique ¼” jacks for dual bed support
- LED status indicators



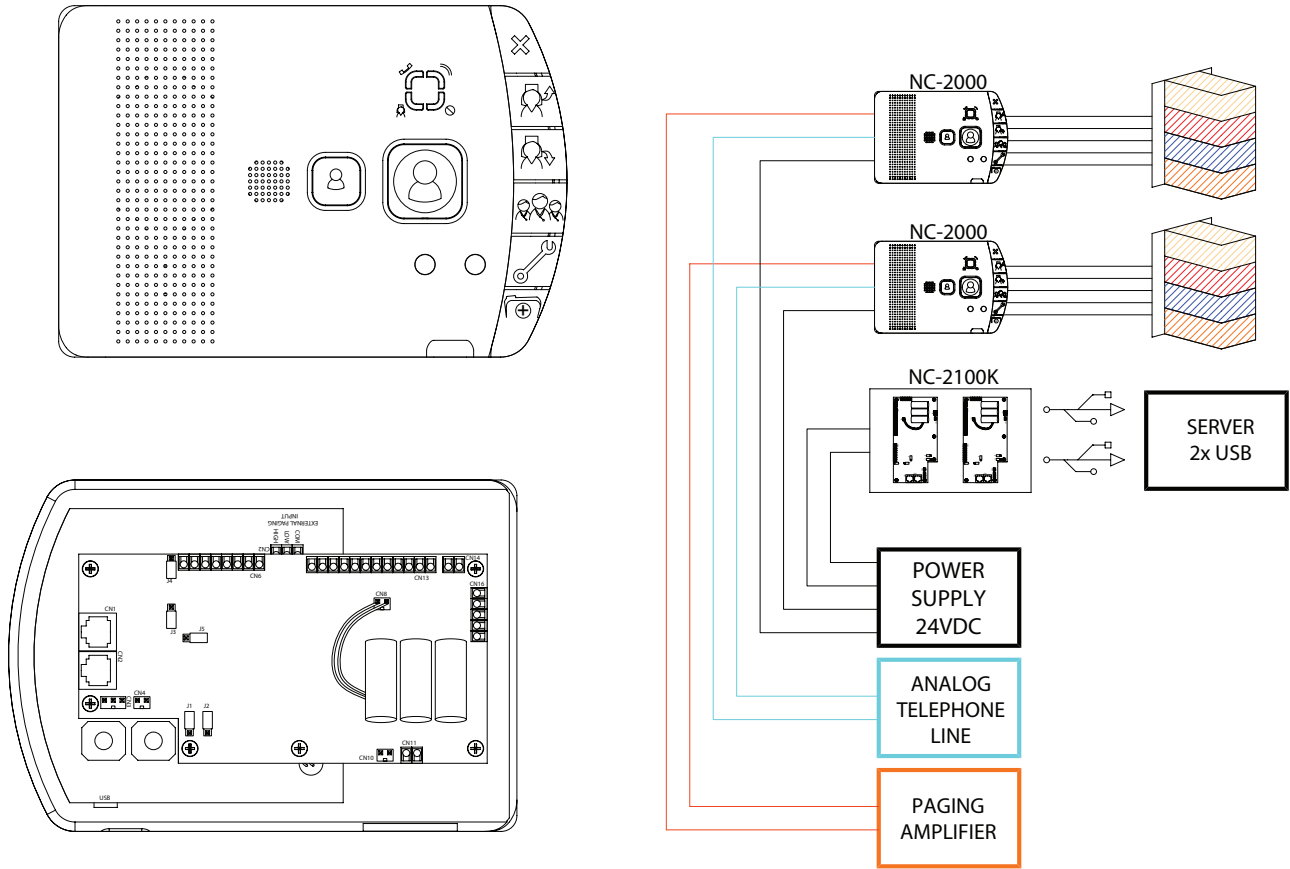
<p><b>Activity LED Indicators (clockwise from top left):</b></p>	<p>The Telephone Line icon indicator will be lit green if an active line is detected, red if an active line is not detected and no indicator if the line option is not enabled from Central.</p> <p>The Event icon will flash representing an emergency event and will not stop until such event is cancelled.</p> <p>The Fault icon will flash if any one of the following conditions is true; stuck button, boot process failure, connectivity issue.</p> <p>The Nurse Presence icon will be lit when the Nurse-In button is pressed and flash red when the Nurse-Out button is pressed.</p>
<p><b>Code Blue/ Emergency:</b></p>	<p>These buttons are used to launch an emergency event and will function dependant on the rule created on the Central Server.</p>
<p><b>Cancel:</b></p>	<p>This button will end all active emergency events currently running and initiated from the unit.</p>
<p><b>Nurse-In:</b></p>	<p>InThis option will function dependant on the rule created on the Central Server and for the most part will be configured to enable a dome light to indicate the presence of a nurse in the patient room.</p>
<p><b>Nurse-Out:</b></p>	<p>This option will function dependant on the rule created on the Central Server and for the most part will be configured to disable the Nurse-In dome light.</p>
<p><b>Staff Assist:</b></p>	<p>The Staff Assist option is used to notify additional staff care providers that their assistance is required. This is implemented via the rule configured on the Central Server</p>
<p><b>Maintenance:</b></p>	<p>This option is used to notify the maintenance staff that a patient room or area requires immediate attention (spills, faulty equipment, room clean up etc...)</p>
<p><b>Custom Programming:</b></p>	<p>This button will be used as a listing option where as patients can have access to a prerecorded message that states a schedule of events or eatery options.</p>

## Specifications

<b>Standards:</b>	UL 1069, 2560, CSA 22.2 #205, FCC Part 15/Part 68, Class "B", CS-03
<b>Power Options:</b>	<p><b>Input Power:</b></p> <ul style="list-style-type: none"> <li>• Range: 24V-48V AC/DC polarity independent</li> <li>• Recommended: Central Class 2 Power supply. 24VDC, minimum 2.5 Amps.</li> <li>• Nominal Current 35mA</li> <li>• Maximum Current 280mA with four 24V incandescent bulbs (see manufacturer for specific current requirements for dome lights)</li> </ul> <p><b>Paging Wattage Requirements:</b></p> <ul style="list-style-type: none"> <li>• Minimum 125mWatt per unit.</li> <li>• On board 8 Hour battery backup for emergency signaling only (no dome lights)</li> <li>• Stand-by Battery: System wide UPS</li> <li>• Capacity: Supplying 110mVA per unit</li> <li>• Backup Time: Dependent on UPS specifications</li> </ul>
<b>Wireless Characteristics:</b>	<p>Frequency: 2.4Ghz</p> <p>Network type: 802.15.4 wireless mesh network</p> <p>Range: 75ft</p>
<b>Physical Characteristics:</b>	<p>Faceplate: 221R Lexan</p> <p>Impact Strength: 260 ft-lbs/in<sup>2</sup></p> <p>Actuator Material: Silicon Rubber</p> <p>Color: Off White</p> <p>Weight: 8 oz (225g)</p> <p>Dimensions: 4.5"H x 6.375" W x 2.5" D</p> <p>Mounting Centers: 3-9/32"</p> <p>Standard 3-gang, 2.5" Deep PVC Back Box Required</p> <p>Operating Temperature: 0° C to +50° C</p>
<b>Input/Output Operating Specification</b>	<p><b>Inputs:</b></p> <ul style="list-style-type: none"> <li>• Wet contact pair, supplied voltage is nominally 3.6V (absolute maximum 5V).</li> <li>• Nominal current of 1.4mA (external loop closed) and an absolute maximum of 1.9mA.</li> <li>• Follow manufacturer's specifications for any attached equipment or wiring.</li> <li>• End of Line Resistor: 10K ohms +/- 5% ½W</li> </ul> <p><b>Outputs:</b></p> <ul style="list-style-type: none"> <li>• Dry contact pair, with both normally-open and normally closed contact pairs exposed.</li> <li>• Follow the voltage recommendations for "low-voltage wiring".</li> <li>• Voltage should not exceed 40VDC.</li> <li>• Current should not exceed 500mA.</li> </ul>

Follow manufacturer's specifications for any attached equipment or wiring.

### Typical Floor Plan



### Ordering Information

Model	Description
NC-2000	Patient Unit
EC-111	Push/Bed Cord
NC-14DP	1/4" Dummy Plug
RB-MD-990	24V DC 6.5A Power Supply
TX3-PS24BB	Metal Cabinet for Power Supply
EC-104	Dome Light Single White
NC-4LED	Dome Light Multi (4 LED)
EOL-103	End of Line Resistor (10K)

NOT TO BE USED FOR INSTALLATION PURPOSES.



**Canada**  
 25 Interchange Way  
 Vaughan, Ontario L4K 5W3  
 Telephone: (905) 660-4655  
 Fax: (905) 660-4113

**U.S.A.**  
 4575 Witmer Industrial Estates  
 Niagara Falls, NY 14305  
 Toll Free: (888) 660-4655  
 Fax Toll Free: (888) 660-4113

Web page: <http://www.mircomgroup.com> Email: [mail@mircomgroup.com](mailto:mail@mircomgroup.com)

Distributed by:



CAT. 9200  
 Rev. 2