

# Code Blue®

## CB 4-d PRODUCT SPECIFICATION

### 1.0 GENERAL DESCRIPTION

- 1.1 The unit (Code Blue CB 4-d) shall be an easily identifiable, vandal resistant communications device that is Americans with Disabilities Act (ADA) compliant, multi-functional, either wall or pole mounted, and constructed of heavy steel. The unit shall be aesthetically pleasing and virtually impervious to damage, and have a high quality, vandal resistant, hands-free communications device, with an optional powerful combination blue strobe and beacon that serves to identify the unit from a great distance
- 1.2 The communication system Code Blue CB3100) shall be designed so that a single touch on the communications device button shall immediately and automatically dial a preprogrammed number. This shall simultaneously activate an optional combination blue beacon and strobe, and an optional peripheral device such as a remote preset for closed circuit television (CCTV). Immediately after establishing the phone connection with the receiving party, the communications device shall be capable of sending a signal identifying the specific unit being activated. The strobe shall continue to flash, drawing attention to this location until the receiving party terminates the call.

### 2.0 CONSTRUCTION

- 2.1 The housing shall be fabricated of 11 gauge steel. The unit shall be 10.25 inches wide, 25.78 inches high, 6 inches deep at the top, and 5 inches deep at the bottom. There shall be a faceplate fabricated of 11 gauge steel welded to the housing. The bottom shall have a .75 inch diameter opening for the passage of a phone line and electric wiring. The back shall have four holes for the accommodation of mounting hardware.
- 2.2 Tamper resistant fasteners manufactured by the McGard Company shall be used. It shall not be possible to enter the unit or remove any component without a special computer designed bit-wrench designed for this purpose. These bit-wrenches are supplied only by the manufacturer of the unit. All other types of fasteners shall not be acceptable due to the abundance of non-proprietary tools available for their removal.

### 3.0 MOUNTING

The unit shall attach to the wall with four each 3/8 x 3 inch masonry type anchors that are included with the unit. See Section 9 of this specification for optional pole mounting information.

### 4.0 ELECTRICAL

- 4.1 All electrical components shall have quick-disconnect terminals for easy service or removal. All wiring shall be concealed within the enclosure and shall not be visible from the outside of the unit.

- Three number dialing capability up to 16 digits per button. The unit shall require 24 VAC and draw a maximum of 2.5 amperes under normal operation.
- Remotely programmable. The entire unit shall be surge protected.
- Remote electronics mounting (extendable up to 5' with optional The speakerphone shall require 20 mA loop current at the unit. A 22 to 26 AWG twisted pair cable shall be used. Longer cable runs shall require the heavier gauge cable.
- Three reporting modes (twisted pair cable shall be used. Longer cable runs shall require the heavier gauge cable).
- Two output relays (optional aux 2 salvable to aux 1).

**5:0 LIGHTS**

- Remote control speaker volume adjustment.
- Silent monitoring mode, password protected.
- Remote control of this specification for the available light options.
- adjustment.
- Programmable passwords.

**6:0 COMMUNICATIONS**

- Programmable time.
- Allows the black button on a keypad phone to act simply as a hook flash with a speed dial button before allowing keypad use for auto dialing into automated systems).
- Detects inaudible hang up speaker from the Code Blue CB3100-s)

The speakerphone shall be Code Blue CB3100 and have one 1.5 inch piezoelectric button labeled "PUSH FOR HELP," one 3/8 inch diameter red light emitting diode (LED) labeled "Call Placed," and one 3/8 inch diameter green LED labeled "Call Received." The speakerphone shall have an internally mounted electronics enclosure, auxiliary power, and shall be capable of playing up to two digitally stored voice messages upon activation. The electronics enclosure shall be capable of using interchangeable faceplates: a single-button faceplate, a two-button faceplate, or a two-button faceplate with keypad. The speakerphone shall be programmable from a remote location and have a three number dialing capability per button. It shall be rated for 16 hours of active talk time and 32 hours of standby battery backup. Line powered phone devices, DIP switch programming, and push-to-talk devices are not acceptable.

6.3 The CB3100 speakerphone shall have the following standard features:

<ul style="list-style-type: none"> <li>• Three number dialing capability up to 16 digits per button.</li> <li>• Remotely programmable.</li> <li>• Remote electronics mounting (extendable up to 5' with optional 3' ribbon extension).</li> <li>• Three reporting inputs (aux one input has optional activation).</li> <li>• Two output relays (optional aux 2 salvable to aux 1).</li> <li>• Remote control speaker volume adjustment.</li> <li>• Silent monitoring mode, password protected.</li> <li>• Remote control two step microphone sensitivity adjustment.</li> <li>• Programmable passwords.</li> <li>• Programmable conversation time.</li> <li>• Allows the black button on a keypad phone to act simply as a hook switch or as a speed dial button before allowing keypad use (for auto dialing into automated systems).</li> <li>• Detects inaudible hang-up commands from the phone system to allow the CB3100 to detect more accurately when the operator has disconnected from the call.</li> <li>• Allows for the lockout of "during call commands."</li> <li>• Internal watchdog timer to detect and restart the micro controller after a lock up.</li> <li>• Supports the RPD diagnostic routine that tests the integrity of the microphone and speaker when used with the FP series faceplates.</li> <li>• RS485 data jack to allow a RS485 device to activate the phone.</li> </ul>	<ul style="list-style-type: none"> <li>• Programming option to set the number of times voice message(s) are played.</li> <li>• Capable of using interchangeable faceplates-single button, dual button and dual button with keypad.</li> <li>• Re-playable message(s) on demand.</li> <li>• Output sound level &gt;80 dB at 1 meter for normal conversation.</li> <li>• Waterproof 3.5-inch speaker.</li> <li>• Waterproof microphone.</li> <li>• Operating temperatures of -40°F to +150°F (-40° to +65°C).</li> <li>• Conformal coated speakerphone electronics to withstand harsh environments.</li> <li>• Capable of playing messages simultaneously at the unit and to the call center.</li> <li>• EEPROM Memory ensures that programming is retained during power loss.</li> <li>• Capable of notification when AC power has been off for 15 minutes.</li> <li>• Auxiliary power supply, battery back up – 16 hours active talk time, 32 hours standby time.</li> <li>• Highly flexible two stored voice identifiers – includes four modes of operation.</li> <li>• Easily integrate with CCTV, alarm systems and other security equipment.</li> <li>• Compatible with 4+1 Express and 4+2 Express Formats.</li> <li>• Optional AMPS cellular transceiver.</li> <li>• Optional 2.4 GHz transceiver.</li> <li>• Complies with FCC Part 15 and TIA/EIA/IS-968.</li> </ul>
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## 7.0 FINISH

- 7.1 The unit shall be finished with a coating process known to be highly graffiti resistant and UV resistant.
- 7.2 Substrate preparation shall be as required to comply with applicable ASTM impact and adhesion standards.
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|--------|---------------------------|
| D2794  | Direct and Reverse Impact |
| D523   | Gloss @ 60 degrees        |
| D3359B | Cross Hatch Adhesion      |
| B117   | Salt Spray Resistance     |
- 7.3 The polyurethane finish shall be a multicoat system available in 10 standard colors and custom colors as specified by the user and approved by the manufacturer.
- 7.4 The primer coat and finish coat shall each have a minimum coverage thickness of 2.0 mils.
- 7.5 Other types of protective finishes are not acceptable.

## 8.0 GRAPHICS

- 8.1 The graphics shall be a durable engineering grade reflective vinyl for high visibility and legibility.
- 8.2 The standard graphics text shall be "Emergency," "Assistance," "Security" or "Courtesy," and shall be available in 20 inch lengths. Standard colors shall be "reflective white," "reflective blue," and "reflective black."

## **9.0 OPTIONS**

- 9.1 The unit shall be capable of using a remote mount combination blue beacon and strobe unit with a mounting bracket. See the combination beacon and strobe specification for further detail.
- 9.2 The unit shall have the option of a pole mounting hardware kit to facilitate mounting the unit on a pole.
- 9.3 An optional two-button version (Model CB3100-d) or a keypad version of the phone (Model CB3100-k) shall be available.
- 9.3.1 The two-button version (CB3100-d) features shall be as follows:
- There shall be a button labeled "Push for Help." The button when touched will automatically activate the strobe and place a call.
  - There shall be a button labeled "Info." This button when activated shall automatically place a phone call to the pre-programmed number (s).
- 9.3.2 The keypad option (Model CB3100-k) features shall be as follows:
- There shall be a button labeled "Push for Help." The button when touched will automatically activate the strobe and place a call.
  - There shall be a button labeled "Call." This button shall open the phone line for calls to be made from the keypad.
- 9.4 The customer shall have the option of adding a directory panel or a custom panel as specified by the user and approved by the manufacturer.
- 9.5 There shall be an option of customized paint colors and graphics. Colors other than standard shall be available based on RAL number as specified by the user and approved by the manufacturer.

## **10.0 APPROVALS**

The unit in its standard configuration shall be certified by a recognized third party testing organization to conform to UL 60950-1/CSAC22.2 No. 60950-1-3.

## **11.0 WARRANTY**

The unit shall be warranted for a period of two years. Reference manufacturers warranty for further details.

## **12.0 MANUFACTURER**

- 12.1 The Manufacturer shall be Code Blue Corporation of Holland, Michigan. There are no equivalents.
- 12.2 Code Blue Corporation manufactures its products according to the most recent revision of product specifications, and shall not be held responsible for obsolete or outdated specifications. For the latest revision, please refer to [www.codeblue.com](http://www.codeblue.com).