# Code Blue®

## CB 2-s PRODUCT SPECIFICATION

### 1.0 GENERAL DESCRIPTION

1.1 The unit (Code Blue CB 2-s) shall be an easily identifiable, vandal resistant communications device that is Americans with Disabilities Act (ADA) compliant, multi-functional, wall mounted, and constructed of heavy stainless steel. The unit shall be aesthetically pleasing and virtually impervious to damage, and shall include a high quality, vandal resistant, hands-free communications device, a powerful strobe and a vivid blue 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 the 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 front shall be fabricated from a single sheet of 12 gauge, stainless steel that is brushed to a number 4B finish after fabrication, and shall be 42 inches high, 12 inches wide, and 8.75 inches deep.

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.

2.3 All openings in the housing shall be laser, plasma or water jet cut to provide clean, straight, defect-free edges with no stains or discoloration from cutting or welding.

2.4 The back plate, a separate piece from the cover, shall be formed of 10 gauge steel. The removable housing front, fastened to the back plate with a hinge and cable system, shall be able to swing forward to allow for servicing. The housing front shall be secured to the back plate by two 10-24 by 1 inch stainless steel, tamper resistant, proprietary fasteners supplied by the manufacturer.

2.5 There shall be two lens openings cut into the face of the housing. The first shall be 5 inches high and 11.75 inches wide and the opening shall begin approximately 2.5 inches from the top of the unit. The second opening shall be 7 inches high and 11.75 inches wide and begin approximately 11.5 inches from the top. The corners of the cuts shall be uniformly rounded, while the edges of the cuts shall be straight and free of burrs or other visual imperfections. The four edges of each opening shall form a square when viewed in elevation from the front of the unit.

2.6 An opening for the communications device shall be cut into the face of the housing at a point approximately 25.5 inches below the top of the housing.

2.7 A .187 inch thick transparent lens formed of a single sheet of clear, Lexan XL type polycarbonate shall be inserted into the housing behind the lens opening and chemically fastened to the housing interior. The

lens shall be completely sealed with silicon around the lens opening, both inside and out, which will render it water, insect, and vandal resistant. The lens shall be treated so that it will be virtually impervious to damage from ultra-violet radiation, aging, cracking, yellowing or breaking.

2.8 The entire unit shall be weather and insect resistant when fully assembled.

## 3.0 MOUNTING

The unit shall attach to the wall through the back plate of the unit by using four each 3/8-inch by 3 inch masonry type anchors that are included with the unit. The mounting devices shall be located internally and inaccessible without opening the unit.

## 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.

4.2 The unit shall require 120 VAC and draw a maximum of 3 amperes under normal operation. The entire unit shall be surge protected.

4.3 The speakerphone shall require 20 mA loop current at the unit. A 22 to 26 AWG shielded twisted pair cable shall be used. Longer cable runs shall require the heavier gauge cable.

## 5.0 LIGHTS

5.1 Strobe light: A strobe light shall be located at the top of the unit. The strobe light shall generate approximately 1,000,000 candlepower and have a flash rate of no less than 60 flashes per minute. A deep blue polycarbonate prismatic refractor that distributes the light in a horizontal pattern, making the flash bright and visible even at great distances shall cover the strobe.

5.1.1 The strobe light shall be automatically activated when the “PUSH FOR HELP” button on the communications device is touched, and shall continue to flash until the answering party deactivates the unit. The strobe cannot be turned off at the unit itself.

5.2 Area light/beacon: A high intensity discharge (HID) 50 watt, high pressure sodium area light shall be located within the housing and directly below the strobe light so that it is visible from the front and sides. The sodium lamp shall be surrounded by a blue prismatic polycarbonate translucent refractor matching the strobe light in appearance. The prismatic pattern of the refractor shall be designed to concentrate the lumen output of the sodium lamp in the horizontal plane and below.

5.3 Faceplate light: A long life, LED fixture shall be concealed within the unit above and directly forward of the communications device. This fixture will direct light onto the communications device faceplate, and shall be vandal resistant.

## 6.0 COMMUNICATIONS

6.1 The unit shall have a high quality, vandal resistant and ADA compliant speakerphone communications device.

6.2 Standard Speakerphone (Code Blue CB3100s)

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. Battery backup shall be rated for 16 hours of active talk time and 32 hours of standby. 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:

- Three number dialing capability up to 16 digits per button.
- Remotely programmable.
- Remote electronics mounting (extendable up to 5' with optional 3' ribbon extension).
- Three reporting inputs (aux one input has optional activation).
- Two output relays (optional aux 2 salvable to aux 1).
- Remote control speaker volume adjustment.
- Silent monitoring mode, password protected.
- Remote control two step microphone sensitivity adjustment.
- Programmable passwords.
- Programmable conversation time.
- 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).
- 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.
- Allows for the lockout of "during call commands."
- Internal watchdog timer to detect and restart the micro controller after a lock up.
- Supports the RPD diagnostic routine that tests the integrity of the microphone and speaker when used with the FP series faceplates.
- RS485 data jack to allow a RS485 device to activate the phone.
- Programming option to set the number of times voice message(s) are played.
- Capable of using interchangeable faceplates-single button, dual button and dual button with keypad.
- Re-playable message(s) on demand.
- Output sound level >80 dB at 1 meter for normal conversation.
- Waterproof 3.5-inch speaker.
- Waterproof microphone.
- Operating temperatures of -40°F to +150°F (-40° to +65°C).
- Conformal coated speakerphone electronics to withstand harsh environments.
- Capable of playing messages simultaneously at the unit and to the call center.
- EEPROM Memory ensures that programming is retained during power loss.
- Capable of notification when AC power has been off for 15 minutes.
- Auxiliary power supply, battery back up – 16 hours active talk time, 32 hours standby time.
- Highly flexible two stored voice identifiers – includes four modes of operation.
- Easily integrate with CCTV, alarm systems and other security equipment.
- Compatible with 4+1 Express and 4+2 Express Formats.
- Optional AMPS cellular transceiver.
- Optional 2.4 GHz transceiver.
- Complies with FCC Part 15 and TIA/EIA/IS-968.

## 7.0 FINISH

7.1 The unit housing shall be fabricated of stainless steel, and shall be brushed to a number 4B finish after fabrication. The finish shall be uniform and free of visible defects.

## 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," 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 An optional two-button version (Model CB3100-d) or a keypad version of the phone (Model CB3100-k) shall be available.

9.1.1 The two-button version (CB3100-d) features shall be as follows:

- There shall be a button labeled “Push for Help.” This 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).

9.1.2 The keypad option (Model CB3100-k) features shall be as follows:

- There shall be a button labeled “Push for Help.” This 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.

## 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.