

Code Blue®

CB 3 PRODUCT SPECIFICATION

1.0 GENERAL DESCRIPTION

- 1.1 The unit (Code Blue 3) shall be an easily identifiable, vandal resistant communications device that is Americans with Disabilities Act (ADA) compliant, multi-functional, freestanding, and constructed of heavy steel. The unit shall be aesthetically pleasing and almost impervious to damage, and include a high quality, vandal resistant, hands-free communications device, and a 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 the blue strobe light 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 the location until the receiving party terminates the call.

2.0 CONSTRUCTION

- 2.1 The housing shall be a concentric steel cylinder (bollard) with a 8.75 inch diameter, a .25 inch wall thickness and support a cast aluminum light cage. The total height shall be 144.5 inches.
- 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 The housing shall have an internal anchor baseplate that is fully welded to the cylinder two inches above its base. The baseplate shall be fabricated with a minimum .50 inch thick A-36 grade steel plate, and shall have a 4 inch diameter center hole for electrical conduit access, as well as three oblong holes on a 6 inch circular bolt pattern for anchor bolts. External mounting is not acceptable.
- 2.4 The unit shall have an access opening for anchor mounting and electrical wiring that is near the base of the bollard.
 - 2.4.1 The access opening shall have a cover plate flush with the unit, whose wall thickness and radii shall be the same as the bollard. The cover plate shall fit precisely into the opening, have a weather resistant gasket to prevent water from entering the unit, and shall be held in place by two ¼ inch by 1 inch countersunk, tamper resistant, proprietary fasteners as supplied by the manufacturer.
- 2.5 An opening shall be cut into the face of the housing at a point beginning 37.38 inches above its base continuing upward so that the opening is 12.38 inches high at its extreme rear surface, 14 inches high at the front, and 3.6 inches deep. The lowermost edge of the surface of the cut shall be sloped 25 degrees from the horizontal from rear to front. The upper edge of the opening shall be horizontal. The sides of the cutout shall be straight and parallel to one another, and the horizontal edges shall be perpendicular to the sides.

- 2.6 A plate of 7 gauge formed steel, with a center hole to accommodate the communications device, shall be fabricated to fit the opening in the housing. All edges of the plate and the center opening shall be straight in both planes.
- 2.7 The plate shall be seal welded to the housing so that the housing and plate appear to be one piece. The weld shall be ground smooth and flush with the adjoining metal so that there are no visible separations or joints.
- 2.8 The bollard shall be capped at the top with a 3/16 inch thick steel plate that shall also function as the mounting base for the cast aluminum light cage. The plate shall be seal welded within the bollard at the extreme upper edge. The light cage shall be mounted to the top plate with 3-3/8 inch diameter cap screws. A lighting unit consisting of a combination blue strobe and beacon shall be mounted within the light cage.
- 2.9 The six sided light cage shall be fabricated of rugged cast aluminum and incorporate Lexan polycarbonate transparent lenses, which shall be no less than 1/8 inch thick. Trapezoidal, transparent lenses shall be installed to enclose the combination blue strobe and beacon.

3.0 MOUNTING

The freestanding unit shall be mounted onto three bolts that are set in concrete. Standard 3/4 x 24 galvanized anchor bolts with galvanized nuts and washers shall be used. Unit shall mount one half inch above the concrete to allow air movement.

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 bollard and shall not be visible from the outside of the unit.
- 4.2 The unit shall require 24 VAC and draw a maximum of 2.5 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 gauge shielded twisted pair cable shall be used. Longer cable runs shall require the heavier gauge cable.

5.0 LIGHTS

- 5.1 Combination blue beacon and strobe: The unit shall have a combination lighting unit consisting of a strobe and beacon. The strobe shall generate 1,000,000 candlepower, and have a flash rate of no less than 60 flashes per minute. The beacon, which serves as an area light, shall always be illuminated. 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.
- 5.2 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: CB-3100

6.2.1 The speakerphone shall 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. Battery backup shall be rated for 16 hours of active talk time and 32 hours of standby. Line powered phone devices, DIPswitch programming, and push-to-talk devices are not acceptable.

6.2.2 The CB3100 speakerphone shall have the following standard features

<ul style="list-style-type: none">• 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.	<ul style="list-style-type: none">• 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.
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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.

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 30 inch lengths. Standard colors shall be "reflective white," "reflective blue" and "reflective black."

9.0 OPTIONS

- 9.1 An optional two-button version (Model CB3100D) or a keypad version of the phone (Model CB3100K) shall be available.
- 9.1.1 The two-button version (CB3100D) 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 CB3100K) 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.
- 9.1.3 There shall be an option of a step down transformer mounted inside the bollard to accept 120/240v AC line voltage.
- 9.1.4 There shall be an option of customized paint colors and graphics. Colors other than standard shall be available based on RAL number 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 revisions, please refer to www.codeblue.com.

