

## 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 of .75 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 radius 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



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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, and 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

- 3.1 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 12-24v AC or 12-30v DC and draw a maximum of 0.680 amperes under normal operation. The phone line shall be factory surge protected and the installer shall follow all local codes for unit grounding and surge protection.
- 4.3 The speakerphone shall require a minimum of 20 mA loop current at the unit. A 22-26 AWG shielded twisted pair cable shall be used.

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### 5.0 LIGHTS

- 5.1 Combination Blue Strobe and Beacon: The unit shall have a combination LED lighting unit consisting of both a strobe and a beacon. The strobe shall have a Lumen rating of 14.5 and have a flash rate of no less than 60 flashes per minute. The beacon 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 LED strobe.
- 5.2 Faceplate Light: A long life, LED fixture shall be concealed within the unit above and directly forward of the communication 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 CB3100 FP1
- 6.2.1 The speakerphone CB3100 FP1 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.
- 6.3 The CB3100 speakerphone shall have the following standard features:
- Three number dialing capability; up to 16 digits per button
  - Capable of using interchangeable faceplates including: single-button , dual-button and dual button with keypad
  - Remotely programmable
  - Replayable message(s) on demand
  - Remote electronics mounting (extendable up to 5' with optional 3' ribbon extension)
  - EEPROM (memory) ensures that programming is retained during power loss
  - Two output relays (optional Aux 2 slaveable to Aux 1)



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- Operating temperatures of -400F to 1500F (-400 to 650 C)
- Three reporting inputs (Aux 1 input has optional activation)
- Conformal coated speakerphone electronics to withstand harsh environments
- Capable of notification when AC power has been off for 15 minutes
- Output sound level >80dB at 1 meter for normal conversation
- Remote control two-step microphone sensitivity adjustment
- Internal watchdog timer to detect and restart the microcontroller after a lockup
- Remote control speaker volume adjustment
- Waterproof microphone
- Programmable passwords
- Waterproof 3" speaker
- Programmable conversation time
- Allows for the lockout of "During Call Commands"
- Programming option to set number of times voice message(s) are played
- Capable of playing messages simultaneously at the unit and to the caller center
- Auxiliary power supply/power back up: 16 hours active talk time, 32 hours standby time
- Highly flexible, two-stored voice identifiers — includes four modes of operation
- Silent monitoring mode, password protected
- Compatible with 4+1 Express and 4+2 Express formats
- Supports the Remote Programming & Diagnostic (RPD) routine that tests the integrity of the microphone and speaker when used with FP faceplates
- 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
- RS485 data jack allows a RS485 device to activate the phone
- Easily integrates with CCTV, alarm systems and other security equipment
- The FP2-K (keypad) model allows the black button to act as a hook switch or as a speed dial button before allowing keypad use (for auto dialing into automated systems)
- Complies with FCC Part 15 and TIA/EIA/IS-968

## 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 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 CB3100 FP2) or a keypad version of the phone (Model CB3100 FP2-K) shall be available.
  - 9.1.1 The two-button version (CB3100 FP2) features shall be as follows:
    - 9.1.1.1 There shall be a button labeled "Push for Help." This button when touched will automatically activate the strobe and place a call.
    - 9.1.1.2 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 FP2-K) features shall be as follows:
    - 9.1.2.1 There shall be a button labeled "Push for Help." This button when touched will automatically activate the strobe and place a call.
    - 9.1.2.2 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 Pantone color chart specified by the user and approved by the manufacturer.

## 10.0 APPROVALS

- 10.1 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

- 11.1 The unit shall be warranted for a period of two (2) years. Reference manufacturer's 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](http://www.codeblue.com).