

Code Blue®

CB 1-w PRODUCT SPECIFICATION

1.0 GENERAL DESCRIPTION

- 1.1 The unit (Code Blue CB 1-w solar/cellular wireless) 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 virtually impervious to damage, and shall include a high quality, vandal resistant, hands-free communications device, and a powerful combination blue strobe and beacon that serve 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 this location until the receiving party terminates the call.

2.0 CONSTRUCTION

- 2.1 The unit shall be a concentric steel cylinder (bollard) with a 12.75 inch diameter, a .25-inch wall thickness, and a bollard height of 8 feet, 6 inches. Solar array height to be 23 inches and will be mounted at a 15 to 60 degree angle.
- 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 unit shall have an internal anchor baseplate that is fully welded to the target two inches above its base. The base plate shall be fabricated with a minimum of .50 inch thick A-36 grade steel plate, and shall have a 5 inch diameter center hole for electrical conduit access, as well as four oblong holes on an 8 inch circular bolt pattern for the 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.
- 2.5 The 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 1/4-20 by 1 inch countersunk, tamper resistant, proprietary fasteners as supplied by the manufacturer.
- 2.6 There shall be two lens openings each 10 inches high and 17 inches wide with 153 degrees of arc. The openings shall be cut into the face of the unit 180 degrees apart,

with the bottom of the openings to be approximately 14 inches from the top of the unit. The corners of the cuts shall be uniformly rounded, and the edges of the cuts shall be straight and free of burrs and other visual imperfections. The four edges of each opening shall form a square when viewed in elevation from the front or rear of the unit.

2.7 A heavy cylindrical lens made of clear, Lexan XL type polycarbonate shall be inserted into the bollard and mechanically and chemically fastened to the bollard interior. The lens shall be fully sealed with silicon around its entire edge to render the installed lens 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 A solar assembly shall enclose the top of the bollard, and shall consist of a cover plate, a solar panel mount and a solar array.

2.8.1 The solar mount shall be aluminum with stainless steel hardware and be adjustable to accommodate the required position of the solar array.

2.9 A second opening shall be cut into the face of the unit at a point beginning 38.5 inches above the bottom of the bollard. The opening shall be 14.5 inches high at the forward edge, and 12.25 inches high at the rear edge. The lower edge of the opening shall be sloped from the rear to the front at an angle 35 degrees from the horizontal. The upper horizontal edge of the opening shall constitute an arc of 160 degrees in the face of the unit, and the sides of the opening shall be parallel and the same length.

2.9.1 The opening shall be totally enclosed by a 7 gauge steel plate that shall have an opening to allow for a communications device. The plate shall be seal welded to the bollard so that the faceplate and the bollard appear to be one unit.

3.0 MOUNTING

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

4.0 ELECTRICAL

4.1 All wiring shall be concealed within the bollard and shall not be visible from the outside of the unit.

4.2 Standard solar array shall consist of a 100 watt panel assembly.

4.3 Standard backup battery shall consist of 2 each 40Ahr batteries.

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 shall always be illuminated at night. A deep blue polycarbonate prismatic refractor that distributes the light in a horizontal pattern, making the flash bright and

- Three number dialing capability up to 16 digits per button. The light shall be situated within the housing, inaccessible to vandals and weather resistant.
- Remotely programmable.
- Remote electronic control (extendable up to 5' with optional 3' ribbon extension).
- Three reporting inputs (aux one input has optional activation).

6.0 COMMUNICATIONS

- Two output relays (optional aux 2 salvable to aux 1). The unit shall have a high quality, vandal resistant and ADA compliant speakerphone communications device.
- Remote control speaker volume adjustment.
- Silent monitoring mode, password protected.
- Remote control two step microphone sensitivity adjustment.
- Programmable passwords.
- Programmable conversation time.
- Allows the back button on a digital phone to act simply as a hook switch or as a speed dial button before allowing keypad use (for dialing into automated systems) 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:

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

- 9.1 The Code Blue Cellular System shall be capable of being used with any Code Blue emergency speakerphone (CB3100) that is outdoors and free of signal obstruction. The system shall consist of an internally mounted cellular interface module, an internal or external antenna, and a cable that connects the interface module to the antenna. A subscription to a local cellular carrier shall be required and a separate phone number shall be obtained for each unit purchased. The local cellular service provider shall program the cellular interface module.

9.2 Cellular Interface Specifications

RF power	3 watts nominal
RF connection	Mini UHF Receptical
	824.03-848.98 MHz transmitter
	869.03-893.98 MHz transmitter
Number of channels	832
Frequency stability	+/- 2.5ppm
Receiver sensitivity	-116 dBm for 12 db SINAD
Type	modular cellular connection interface
Connection	RJ11C
Operating temperature	-14 ⁰ F to +120 ⁰ F (-10 ⁰ C to +50 ⁰ C)
Operating humidity	5% to 95% (no condensing)

10.0 OPTIONS

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

- 10.1.1 The two-button version (Model 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 automatically place a phone call to the pre-programmed number(s).

- 10.1.2 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.

- 10.2 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.

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 known 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.

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