1.0 GENERAL DESCRIPTION

1.1 The unit shall be a vandal-resistant wall mount that is multi-functional and constructed of stainless steel (or painted carbon steel), model CB2AP from Code Blue Corporation. It shall include a high quality, hands-free communications device illuminated by a powerful combination blue beacon strobe light that serves to easily identify it from a distance.

2.0 CONSTRUCTION

2.1 The housing front shall be constructed of 14-gauge stainless steel brushed to a 60 Grit vertical finish. The painted version can be made from 14-gauge carbon steel.

2.2 It shall measure 29.79" H x 11.90" W x 4" D and weigh approximately 28 lbs.

2.3 A 3.70" H x 11.9" W x 2.0" D LED Beacon/Strobe opening shall be approximately 2.10" from the top.

2.3.1 A 0.187" thick transparent lens formed of clear polycarbonate shall be inserted into the housing behind the opening.

2.4 An opening for a communications device shall be cut approximately 25.5" below the top of the housing.

2.5 Tamper resistant proprietary fasteners manufactured for Code Blue Corporation shall be used. It shall not be possible to acquire the custom-designed bit from any other source.

3.0 MOUNTING

3.1 The unit shall be mounted using four 0.375" x 3" mounting bolts and 3" lag bolt anchors included with the unit through four openings in the back plate that are inaccessible without opening the unit. Mounting hole size shall be 0.44".

4.0 ELECTRICAL

4.1 All electrical components shall have a modular plug for easy service and replacement, and equipped with a fuse for protection from transient voltage conditions.

4.2 Requires 4 ampere at 24V DC standard.

4.3 Two 0.890" conduit holes will be in the bottom of the unit.

4.4 The unit shall have the option for Power over Ethernet for connectivity to a VoIP network switch with 802.3af or 802.3at (minimum) capabilities.

4.5 The unit shall have the option of connectivity to 85-264 {*277} VAC. *When voltage @ powered device has voltage drop <273 VAC.

5.0 LIGHTING

5.1 **LED Beacon/Strobe:** It shall have a factory-set flash rate of up to 375 flashes per minute and be programmable. A deep blue UV-rated polycarbonate prismatic refractor shall surround the LED Beacon/Strobe and be used to distribute light in a horizontal pattern for maximum brightness and visibility.

5.1.1 The communication device shall be factory programmed to activate the LED Beacon/Strobe for the duration of a call.

5.1.2 The 180-degree LED Beacon/Strobe shall measure 7.25” W x 3.49” H x 3.52” D.

6.0 COMMUNICATIONS

6.1 The unit shall have a speakerphone communication device.

6.1.1 LS1000/LS2000 – VoIP: Refer to the ***LS1000 and LS2000 Architect and Engineering Specification*** for further information.

6.1.2 IA4100 - Analog: Refer to the ***IA4100 Architectural and Engineering Specification*** for further information.

6.2 EIA/TIA, ANSI, CSA and BICSI cabling or similar standards shall be adhered to for proper operation of devices connected to copper or fiber infrastructure.

6.3 The unit shall have a single speaker used for Audio Paging notification capabilities:

6.3.1 The amplifier shall have the following specifications:

Parameters	Symbols	Test Condition/ Comment	Min	Typ	Max	Unit
Load Resistance:	RL		2.0	4	-	Ohms
Max Output Power:	Pmax	f=20Hz-20KHz (10% THD)	-	100	-	W
Output Power:	Po	f=20Hz-20kHz (0.1% THD)	-	1 x 100	-	W
Distortion:	THD+N			10		%
Signal to Noise:	SNR		102	-	-	dB

6.3.2 The single speaker shall have the following specifications:

Parameters	Unit
Impedance:	8 Ohms
Frequency Range:	450 Hz to 8000 Hz or similar

Power Capacity:	15 W or more per speaker
Temperature:	Operating Temperature: -40°C to 85°C Ambient Temp Range

6.3.3 The amplifier shall have the following additional features:

- Synchronized Switching Frequencies for AM Avoidance
- Frequency response is configured to support voice range.
- Remote Disable
- Silent Turn-On
- Full Protection: Over Current Speaker Short, Over Current Short to Chassis Ground, Over Temperature Protection, Power Supply Under Voltage Lockout and Excessive Clipping
- Monitor Outputs: Output Current Monitor, Temperature Monitor and Protect and Power On
- Input audio gain adjustment at the amplifier

6.4 The unit shall be capable of communicating via third party IP wireless and cellular devices, which can be housed within the unit.

6.5 EIA/TIA, ANSI, CSA and BICSI cabling or similar standards shall be adhered to for proper operation of devices connected to copper or fiber infrastructure.

7.0 FINISH

7.1 **Stainless Steel:** The housing shall be brushed to a 60 Grit vertical finish.

7.2 **Paint:**

7.2.1 Wet coat: Four-coat process, with zinc-rich primer for corrosion resistance and baked-on polyurethane enamel for maximum gloss and shine.

7.2.1.1 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, D1654 Corrosion Creep, D714 Scribe Blisters and D714 Field Blisters. Minimum coverage thickness of 2.0 mils for both primer and finish coats.

7.2.1.2 Minimum coverage thickness of 2.0 mils for both primer and finish coats.

7.2.1.3 The finish shall be a available in seven standard colors: Safety Blue, Safety Red, Safety Yellow, Gloss White, Gloss Black, Dark Bronze and Bright Silver. Custom colors shall be available.

7.2.1.4 Optional clear coating process available to provide additional environmental protection.

7.2.2 Powder coat

7.2.2.1 The finish shall be available in Safety Blue.

8.0 COMPLIANCE

8.1 Americans with Disabilities Act (ADA) compliant

8.2 UL 62638

8.3 NFPA 72 Chapter 24 (2010)

9.0 GRAPHICS

9.1 Engineering grade reflective vinyl for high visibility and legibility.

9.2 Standard 2.75" tall text offerings: Emergency or Assistance.

9.3 Standard graphics color offerings: Reflective White, Reflective Blue and Reflective Black.

9.4 Custom text, length and color options shall be available.

10.0 WARRANTY

10.1 The CB2AP shall be warrantied against any defects in material and workmanship, under normal use, for a period of 2 years from the date of installation. If system is found by manufacturer to be defective within the warranty period, manufacturer shall repair and/or replace any defective parts, provided the equipment is returned to manufacturer.

11.0 MANUFACTURER

11.1 The Manufacturer shall be Code Blue Corporation. 800-205-7186, 259 Hedcor Street, Holland, Michigan 49423. www.codeblue.com. THERE ARE NO EQUIVALENTS.