



1.0 GENERAL DESCRIPTION

- 1.1 The unit shall be a vandal-resistant, high quality, communications device, model LS1000 from Code Blue Corporation, no substitutions. It shall have a real time, non-open source, proprietary operating system. It shall have a single enclosure comprised of all electronics with a fixed IP color camera*, serviceable speaker, microphone, button, and PCB components.

2.0 CONSTRUCTION

- 2.1 The speakerphone shall measure 8.5" W x 11.75" H x 2.56" D with six screw holes and weigh approximately 4.93 lbs.
- 2.2 The faceplate shall be constructed of 0.104" thick stainless steel with custom-designed, vandal-resistant camera*, microphone and speaker openings.
- 2.3 An 8.5" W x 11.75" H x 0.13" D rubber gasket shall be on the back of the faceplate.
- 2.4 A stainless-steel screen shall be mounted between the faceplate and speaker for additional vandal resistance and weatherproofing.
- 2.5 A 3.5" weatherproof speaker and optional keypad shall be mounted via .50" stainless steel studs, locking washers and lock nuts.
- 2.6 A camera* standard sensor unit shall be mounted with an aluminum recessed threaded mount.
- 2.7 Piezoelectric buttons that are self-monitoring and contain no mechanical parts shall be mounted in a cast aluminum bezel via locking nut and rubber washer.
- 2.8 Button bezels shall be made of acrylic with an aluminum back plate and mounted via stainless steel studs, locking washers and lock nuts.
- 2.9 One .42" red LED light and one .42" green LED light will be utilized beneath CALL PLACED and CALL RECEIVED signals.
- 2.10 Aluminum stand offs and locking washers shall be utilized to mount conformal coated electronics. A molded plastic housing shall be secured with aluminum standoffs, locking washers and stainless-steel screws. Weatherproof modular connectors shall be utilized for external power, auxiliary, PAS control, communication, audio output connectivity.

3.0 FINISH

- 3.1 Faceplate shall have an optional four-coat paint process, with zinc-rich primer for corrosion resistance and baked-on polyurethane enamel for maximum gloss and shine.



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- 3.1.1 Optional clear coating process available to provide additional environmental protection.
- 3.2 Flush mount: It shall be stainless steel with a 4b brushed finish.
- 3.3 Surface mount: It shall be stainless steel with a 4b brushed finish.

4.0 PRODUCT FEATURES

- 4.1 The enclosure shall be capable of using interchangeable faceplates: single button, two button, and two button with keypad.
- 4.2 Self-monitoring and fault reporting for loss of power, PAS amplifier/speakers (if attached), battery voltage and button, speaker, microphone, and keypad failure. Built-in scripting language provides advanced button and diagnostic report programming.
- 4.3 Fault reporting shall be by SNMP management system or by custom script for placing outgoing calls and message playback.
- 4.4 The unit will have capability for infinite account registrations for flexibility.
- 4.5 Security features include HTTPS with 10-minute login use timer, Transport Layer Security (TLS) redundant with HTTPS, VLAN and password protection.
- 4.6 Message playback options: multiple and repeating during both call placed, and call received, and message playback during a call via DTMF commands.
- 4.7 Operational temperature shall be -40° to +70° Celsius (-40° to +158° Fahrenheit).
- 4.8 Built with powerful DSP technology with enhanced speakerphone and microphone sensitivity.

5.0 COMMUNICATION FEATURES

- 5.1 The speakerphone shall be capable of peer-to-peer audio and multicast communication.
- 5.2 The speakerphone shall have a 4GB memory capacity for the storage of phone numbers and audio messages and be capable of configuration from a central TFTP server or embedded web GUI.
- 5.3 The speakerphone shall have an 8 Ohm line level audio output.
- 5.4 The unit shall have three Ethernet ports, one capable of being connected to a PoE network switch.
- 5.5 The speakerphone will be able to handle phone numbers with up to 255 digits each and have an instantaneous dialing speed depending on the network.
- 5.6 In-call commands via DTMF: speaker volume and microphone volume.



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- 5.7 Codec support: G.711a (PCMA), G.711u (PCMU), G.722, G.729, GSM, L16, iLBC, Opus, Speex.
- 5.8 STUN client for NAT transversal.
- 5.9 UDP and TCP communication protocols.
- 5.10 Embedded web server.
- 5.11 DTMF inband/out of band/INFO.
- 5.12 Three auxiliary Normally Open (NO) input contact closures and three auxiliary NO output contact closures with programmable timing capability.
- 5.13 Customizable incoming call scripting.
- 5.14 Volume control and hang-up functionality from both the caller and operator sides.

6.0 ELECTRICAL

- 6.1 Power over Ethernet IEEE 802.3af (15.4 maximum wattage) and PoE+ IEEE 802.3at (25.5 maximum wattage).
- 6.2 12V DC @ 350mA for PoE and 600mA for PoE+.
- 6.3 Optional SLA/AGM battery backup, with up to 16 hours of talk time/standby.
 - 6.3.1 Non-volatile memory ensures programming is retained during power loss.

7.0 VIDEO*

- 7.1 The faceplate should include a main unit designed for use in discreet video surveillance applications paired with a standard sensor.
- 7.2 Main unit details
 - 7.2.1 1080p at 60 fps or 720p at 180 fps
 - 7.2.2 Rugged design and connectors
 - 7.2.3 Multiple sensor and cable options
 - 7.2.4 Support for 2-way audio and I/O
 - 7.2.5 Reduced bandwidth and storage needs technology, advanced low-light technology and advanced WDR imaging
 - 7.2.6 Memory: 1024 MB RAM, 512 MB Flash
 - 7.2.7 Video compression: H.264 (MPEG-4 Part 10/AVC) Baseline, Main and High Profiles; H.265 (MPEG-H Part 2/HEVC) Main Profile; Motion JPEG
 - 7.2.8 Resolution: 1920x1080 HDTV 1080p



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- 7.2.9 Frame rate: Up to 30 fps for 1080p (WDR mode); Up to 60 fps for 1080p; Up to 180 fps for 720p
 - 7.2.10 Video streaming: Multiple, individually configurable streams in H.264, H.265 and Motion JPEG
 - 7.2.11 Image settings: Contrast, brightness, sharpness, advanced WDR imaging technology, fixed orientation aid, white balance, tone mapping, exposure control, exposure zones, compression, rotation: 0°, 90°, 180°, 270°, mirroring, polygon privacy mask, control queue
 - 7.2.12 Application Programming Interface: Open API for software integration; ONVIF® Profile G and ONVIF® Profile S, specification at onvif.org
 - 7.2.13 Power: Power over Ethernet (PoE) IEEE 802.3at Type 2 Class 4; 10–48 V DC, typical 11 W, max 25.5 W
 - 7.2.14 Operating conditions: -40 °C to 60 °C (-40 °F to 140 °F)
 - 7.2.15 Storage conditions: -40 °C to 65 °C (-40 °F to 149 °F)
- 7.3 Standard sensor details
- 7.3.1 Up to 60 fps at 1080p
 - 7.3.2 Up to 180 fps at 720p
 - 7.3.3 108° field of view
 - 7.3.4 IP66/IP67/IP6K9K-rated
 - 7.3.5 Ruggedized sensor unit can withstand temperatures as low as -40 °C and as high as 70 °C intermittently (-40 °F to 158 °F).
 - 7.3.6 Minimum illumination Color: 0.1 lux
 - 7.3.7 Day and night Fixed IR-cut filter
 - 7.3.8 Power: Typical 1 W, max 1.7 W
 - 7.3.9 Operating conditions: -40 °C to 60 °C (-40 °F to 140 °F)
 - 7.3.10 Storage conditions: -40 °C to 65 °C (-40 °F to 149 °F)

8.0 OPTIONS

- 8.1 The LS1000 FP1 shall have a single 38mm self-monitoring data button for activation. The button shall be labeled PUSH FOR HELP, EMERGENCY, EMERGENCY/EMERGENCIA or ASSISTANCE. Also available without camera.
- 8.2 The LS1000 FP2 shall have one 38mm and one 28mm self-monitoring data button for activation. The primary button shall be labeled PUSH FOR HELP, EMERGENCY,

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- EMERGENCY/EMERGENCIA or ASSISTANCE. The secondary button shall be labeled INFO. Also available without camera.
- 8.3 The LS1000 FP2K shall have one 38mm and one 28mm self-monitoring data button for activation and a standard telephone keypad. The primary button shall be labeled PUSH FOR HELP, EMERGENCY, EMERGENCY/EMERGENCIA or ASSISTANCE. The secondary button shall be labeled CALL. Also available without camera.
- 8.4 Bezel Options:
- 8.4.1 ADA Compliant Tactile 13-character max customizable bezel designs made of acrylic and aluminum shall be available.
- 8.4.2 ADA Compliant printed customizable design made of acrylic and aluminum shall be available. (File required)
- 8.5 Please refer to the associated Architect and Engineering Specification for the following equipment:
- 8.5.1 Code Blue enclosure options for installation: Tower and Wall Mount
- 8.5.2 Remote mount blue beacon/strobe

9.0 COMPLIANCE

- 9.1 Braille lettering and two highly visible LED indicators for ADA compliance.
- 9.2 NEMA 3S or 4 compliant when installed in NEMA compliant enclosure.
- 9.3 UL 60950-22 compliant when installed in a Code Blue Help Point®.
- 9.4 UL 62368-1 compliant when installed in a Code Blue Help Point®.

10.0 WARRANTY

- 10.1 The LS1000 shall be warrantied against any defects in material and workmanship, under normal use, for a period of 2 years from date of shipment. 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.

**Available with Camera option Only*

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