# GENERAL DESCRIPTION

* 1. The unit shall be a vandal-resistant, high quality, communications device, model LS2000 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 hook-switch, handset and PCB components.

# CONSTRUCTION

* 1. The speakerphone shall measure 8.5” W x 11.75” H x 5.48” D with six screw holes and weigh approximately 5.1 lbs.
	2. The faceplate shall be constructed of 0.104” thick stainless steel with custom-designed, vandal-resistant hook-switch opening.
	3. An 8.5” W x 11.75” H x 0.13” D rubber gasket shall be on the back of the faceplate.
	4. Faceplate shall include a non-moveable, magnetic reed hook-switch to limit usage failure and a 0.8 lb. black ABS handset receiver attached by stainless steel armored cord and swivel for vandal-resistance.
	5. An optional keypad shall be mounted via .50” stainless steel studs, locking washers and lock nuts.
	6. An optional 25mm programmable ring lit piezoelectric button that contains no mechanical parts shall be mounted into the faceplate.
	7. 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.

# FINISH

* 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.
		1. Optional clear coating process available to provide additional environmental protection.
	2. Flush mount: It shall be stainless steel with a 4b brushed finish.
	3. Surface mount: It shall be stainless steel with a 4b brushed finish.

# PRODUCT FEATURES

* 1. The enclosure shall be capable of using interchangeable faceplates: no button, one button, keypad and one button with keypad.
	2. Self-monitoring and fault reporting for loss of power, PAS amplifier/speakers (if attached), battery voltage and button, handset phone and keypad failure. Built-in scripting language provides advanced button and diagnostic report programming.
	3. Fault reporting shall be by SNMP management system or by custom script for placing outgoing calls and message playback.
	4. The unit will have capability for infinite account registrations for flexibility.
	5. Security features include HTTPS with 10-minute login use timer, Transport Layer Security (TLS) redundant with HTTPS, VLAN and password protection.
	6. Operational temperature shall be -40° to +70° Celsius (-40° to +158° Fahrenheit).

# COMMUNICATION FEATURES

* 1. The handset phone 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.
	2. The handset phone shall have an 8 Ohm line level audio output.
	3. The unit shall have three Ethernet ports, one capable of being connected to a PoE network switch.
	4. The handset phone shall be capable of both manual and auto-dial features.
	5. The handset phone will be able to handle phone numbers with up to 255 digits each and have an instantaneous dialing speed depending on the network.
	6. In-call commands via DTMF: speaker volume and microphone volume.
	7. Codec support: G.711a (PCMA), G.711u (PCMU), G.722, G.729, GSM, L16, iLBC, Opus, Speex.
	8. STUN client for NAT transversal.
	9. UDP and TCP communication protocols.
	10. Embedded web server.
	11. DTMF inband/out of band/INFO.
	12. Three auxiliary Normally Open (NO) input contact closures and three auxiliary NO output contact closures with programmable timing capability.
	13. Customizable incoming call scripting.
	14. Volume control and hang-up functionality from both the caller and operator sides.

# ELECTRICAL

* 1. Power over Ethernet IEEE 802.3af (15.4 maximum wattage) and PoE+ IEEE 802.3at (25.5 maximum wattage).
	2. 12V DC @ 350mA for PoE and 600mA for PoE+.
	3. Optional SLA/AGM battery backup, with up to 16 hours of talk time/standby.
		1. Non-volatile memory ensures programming is retained during power loss.

# OPTIONS

* 1. The LS2000 FP0 shall have handset only.
	2. The LS2000 FP1 shall have one 25mm programmable ring lit piezoelectric button for volume control. The button shall be labeled VOLUME CONTROL.
	3. The LS2000 FP1K shall have one 25mm programmable ring lit piezoelectric button and a standard telephone keypad. The button shall be labeled VOLUME CONTROL.
	4. The LS2000 FPK shall have a standard telephone keypad.
	5. Handset cord length options: 14”, 18”, 24” 54”
	6. Please refer to the associated Architect and Engineering Specification for the following equipment:
		1. Code Blue enclosure options for installation: Tower and Wall Mount
		2. Remote mount blue beacon/strobe

# COMPLIANCE

* 1. NEMA 3S or 4 compliant when installed in NEMA compliant enclosure.
	2. UL 60950-22 compliant when installed in a Code Blue Help Point®.
	3. UL 62368-1 compliant when installed in a Code Blue Help Point®.

# WARRANTY

* 1. The LS2000 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.

# MANUFACTURER

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