

Symphony

Every School Moment, Perfectly Orchestrated.



Unify your school communication with a single platform.

Today's schools need communication systems that are reliable, accessible, and flexible enough to adapt as needs change. The **Symphony Campus Communication System** by Boxlight is our next-generation, IP-based platform designed from the ground up to meet those demands.

Symphony supports **SIP** and **Multicast protocols**, operates on your school's existing network and is accessible through any local web browser. From **Symphony's Command Center**, staff can manage paging, intercom calls, announcements and even emergency alerts with ease.

When paired with the **SM Series IP speakers, clocks and horns**, Symphony becomes a fully integrated, modern communication solution. It uses industry-standard protocols, fits seamlessly into your current infrastructure and delivers consistent, dependable performance — without the need for new infrastructure.



Why Schools Choose Symphony

Unified Communication Platform

Manage all your communication needs — paging, bells, intercom, and emergency alerts — from one intuitive, browser-based system.

Faster, Smarter Communication

Powered by multicast technology, Symphony ensures instant, reliable delivery of announcements and alerts without overloading your network.

Flexible, Scalable, and SIP-Ready

Designed to grow with your needs, Symphony integrates seamlessly with your existing VoIP/SIP phone systems and allows for phased deployments and expansions.

Enhance Campus Safety

Quickly initiate critical audio and visual alerts campus-wide — giving staff and students the time and clarity they need to act.

Easy to Manage

No specialized servers or complicated software installs. Manage Symphony from any modern device — PC, Mac, Chromebook, or Linux.

Built for the Rhythm of the School Day

Automate bells and announcements, communicate clearly during emergencies, and connect every classroom and corridor — all orchestrated perfectly.

Symphony Command Center Phone

Designed to streamline communication and enhance responsiveness across the campus, the Boxlight **Symphony Command Center** phone offers a powerful combination of voice, video, and alerting features tailored for seamless integration with Symphony – our 3rd generation bell, paging, intercom, and alerting system. With a large touch display, high-quality audio, and intuitive interface, Command Center provides a central point of control for daily and emergency communication needs.



Alerts

Alert	Name	Description	Extension	Zone
Weather	Frontline Weather audio file	8000	Emergency Alert	☒
Evacuate	Frontline Evacuate audio file	8000	Emergency Alert	☒
Hold	Frontline Hold audio file	8000	Emergency Alert	☒
Shelter in Place	Frontline Shelter in Place audio file	8000	Emergency Alert	☒
Lockdown	Frontline Lockdown audio file	8000	Emergency Alert	☒

Zones

Priority	Name	Description	Extension	Address	Port	Code	Device
1	Emergency Page	Live Page (Priority 1 play all devices)	8001	220.9.0.1	11001		☒
2	Emergency Not	Program Audio/Video	8002	220.9.0.1	11002		☒
3	Campus Page	Live Page (Play all devices)	8003	220.9.0.1	11003		☒
4	Campus Not	Program Not Audio (Play all devices)	8004	220.9.0.1	11004		☒
5	Lunch A	Classrooms in Lunch A group	8005	220.9.0.1	11005		☒
6	Lunch B	Classrooms in Lunch B group	8006	220.9.0.1	11006		☒
7	Class Up	Classrooms in the Class Up group	8007	220.9.0.1	11007		☒
8	Class Up	Classrooms in the Class Up group	8008	220.9.0.1	11008		☒

Devices

Room	Name	Type	Extension	IP Address	Zone
Room 1	SM110	SM110	1001	10.10.0.210	☒
Room 2	SM110	SM110	1002	10.10.0.217	☒
Room 3	SM110	SM110	1003	10.10.0.218	☒
Room 4	SM110	SM110	1004	10.10.0.15	☒
Room 5	SM110	SM110	1005	10.10.0.16	☒
Room 6	SM110	SM110	1006	10.10.0.17	☒
Room 7	SM110	SM110	1007	10.10.0.18	☒
Room 8	SM110	SM110	1008	10.10.0.19	☒
Room 9	SM110	SM110	1009	10.10.0.20	☒
Room 10	SM110	SM110	1010	10.10.0.21	☒
Class North	SM110	SM110	8001	10.10.0.210	☒

Calendar

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
24	25	26	27	28	29	30
31	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30	31	1	2	3

Key Features

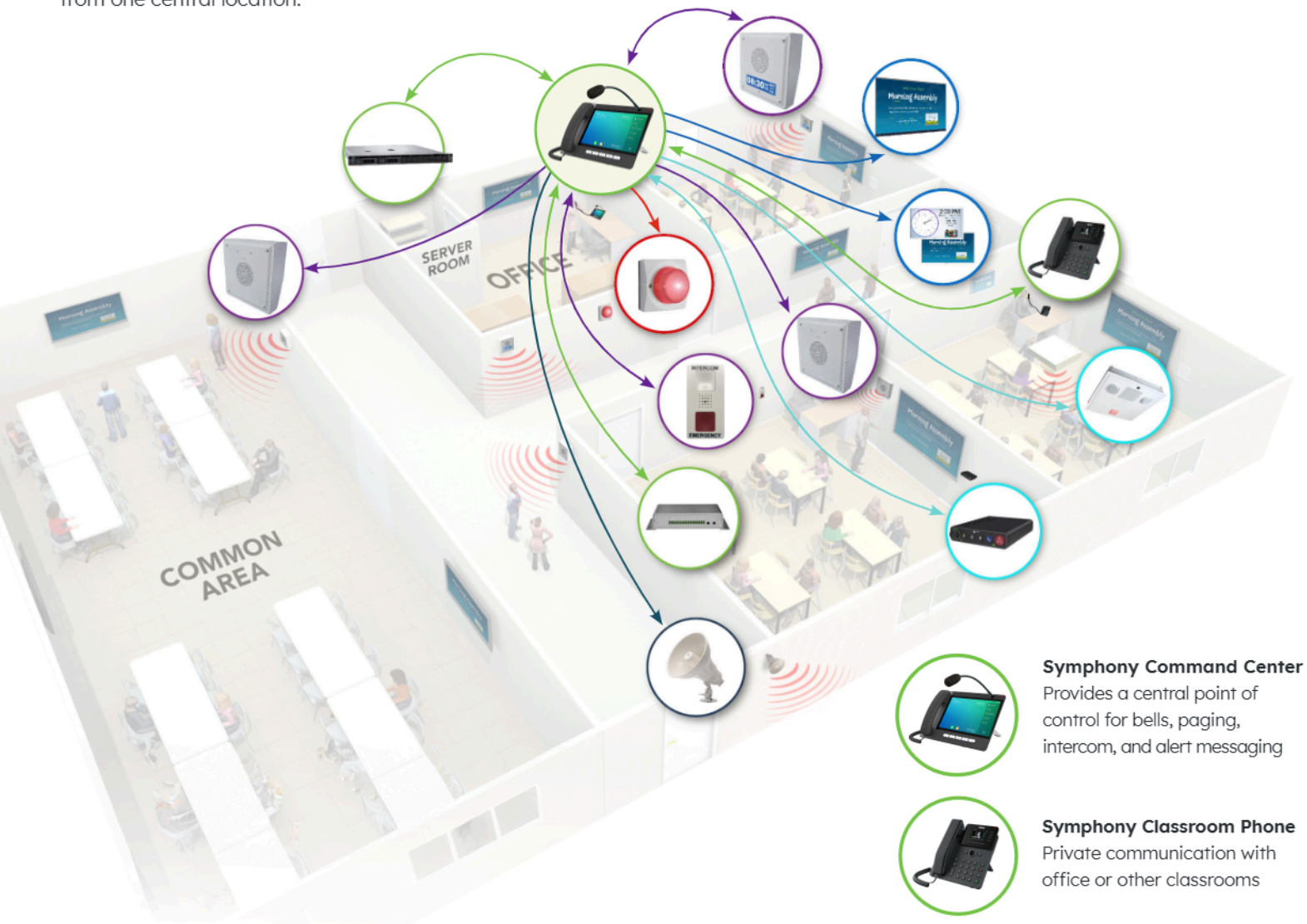
- 10.1-inch full-color touch display for easy navigation
- Purpose-designed for use with Symphony
- Integrated gooseneck microphone for hands-free calling
- Handset with push-to-mute for private, controlled conversations
- One-touch campus-wide paging
- Dynamic alert, announcement, intercom, and paging list
- Supports video integration with Symphony-approved doorbells
- HD audio with G.722 and Opus codec support
- Dedicated tones for standard and alert notifications
- Dual Gigabit Ethernet ports
- Desk stand: 45° and 50° angles
- PoE Powered
- Android 9.0 OS



How it works

Symphony

The **Command Center** gives school staff a simple way to manage daily communication, whether they're making intercom calls to classrooms, paging specific areas like the gym, or sending out schoolwide alerts. All of these actions and more can be done quickly from one central location.



Symphony Command Center

Provides a central point of control for bells, paging, intercom, and alert messaging



Symphony Classroom Phone

Private communication with office or other classrooms



DRS-6000 Server

Dedicated hardware or virtual server



SM10 SIP Paging Interface

Provides SIP and multicast audio streams to 70-volt common areas



UNITY

- Paging and Intercom
- Voice Amplification
- Classroom Multimedia
- Bluetooth® Audio



ezRoom

- Paging and Intercom
- Voice Amplification
- Classroom Multimedia
- Bluetooth® Audio



IP Speaker Clock

- Paging and Intercom
- Digital Clock
- Optional Call Button



IP Speaker

- Paging and Intercom
- Optional Call Button



Horn Speaker

- Common Area Audio (Interior & Exterior)
- Paging



ATTENTION!

Connects displays, audio systems, 70-volt and IP-based devices and safety platforms across campus



TimeSign

- Analog/Digital clock
- Receives synchronized audio and video messages



Strobe Light

Flashing light enhances audio announcements and alerts



Emergency and Intercom Call Button

- Intercom Call Button

Specifications



Command Center Phone (8000-00006)

Display	10.1-inch capacitive touchscreen (1280 x 800) color touch screen
Microphone	Detachable HD gooseneck microphone Directional Frequency response: 20Hz to 20KHz SNR: ≥60 dB @ 1 kHz, 1 Pa
Camera	8 MP, adjustable angle, H.264 codec, privacy cover
Audio Codecs	G.722, Opus (HD Audio)
Video Codec	H.264
Handset	PTM with mute function; standard and PTT options
Physical keys (5)	Volume -/Volume +/Home/Hands-free/Return
SIP Support	20 SIP lines
Wi-Fi	2.4 GHz / 5 GHz dual band
Bluetooth	Version 5.0
Ethernet	Dual Gigabit Ethernet with PoE (Dual bridged port for PC bypass)
USB	USB 2.0 port for peripherals
Operating System	Android 9.0 OS
Power	DC 5 V / 2 A or PoE (DC adapter not included) Power consumption (PoE): 2 W to 9.77 W Power consumption (adapter): 1.2 W to 7.75 W
Environment	Working Temperature: 0°C to 45°C Working Humidity: 10% to 95%
Installation	Desktop
Device Dimensions	Desktop Stand (Angles 45°): 309 x 214 x 187 mm Desktop Stand (Angles 50°): 309 x 226 x 167 mm
Symphony Integration	Dynamically updated Alert, Announcement, Paging and Intercom list.



Classroom Phone (8000-00010)

Display	2.4-inch (320 x 240) color screen
Audio Codecs	G.722, Opus (HD Audio)
Handset	HAC
Physical keys (35)	3 DSS keys + 1 page key (with LED) 5 Function keys (Contact, MWI, Mute, Headset, Redial) 4 Soft-keys 4 Navigation keys 1 OK key 1 Return key 1 Home key 12 Standard Phone Digits keys 2 Volume Control keys (up/down) 1 Hands-free key
SIP Support	4 SIP lines
Ethernet	Dual Gigabit Ethernet with PoE (Dual bridged port for PC bypass)
Power	DC 5 V / 2 A or PoE (DC adapter not included) Power Consumption (PoE): 1.90 W to 4.60 W Power Consumption (adapter): 1.33 W to 3.00 W
Environment	Working Temperature: 0°C to 45°C Working Humidity: 10% to 95%
Installation	Desktop / Wall with adapter (not included)
Device Dimensions	Desktop Stand (40°): 191.8 x 164.5 x 174.2 mm Desktop Stand (45°): 191.8 x 154.5 x 181.9 mm Wall mountable: 191.8 x 91.6 x 215.6 mm
Symphony Integration	Dynamically updated Alert, Announcement, Paging and Intercom list

DRS-6000 (1000-00324)



Operating System	Linux Ubuntu 22.04
Remote Admin	Webmin
Weight	13.6 kg / 30 lb
Processor	Intel® Xeon® E-2414 2.6 G
Memory	16 GB UDIMM, 3200MT/s
Storage	(2) 2TB SATA Hard Drives, 6 Gbps, hot-plug
Redundancy	RAID 1 mirroring for instantaneous failover continuity
Bandwidth/stream	<1% of a typical 100 Mbps network (during audio streaming)
Mounting	1U/2U static rails for 2 post/4 post racks



Admin Station (1000-00326)

Display	23.8-inch Touch Display – swivel, tilt, rotate 90°
Network	WiFi 6E 802.11ax or Ethernet
Camera	Pop-up webcam
Audio	Stereo speakers
Operating System	Windows 11 OS
Processor	13th Gen Intel Core i3-13100T
Memory	8 GB DDR4 RAM 256 GB NVMe SSD

Push-to-talk Microphone

Input power	+12 V (ITC port on CM-900)
Connector	RJ45
Sensitivity	5.6 mV/Pa (millivolt/Pascal)
Size (wxdxh)	114 x 344 x 178 mm / 4.49 x 13.54 x 7.01 in
Weight	690 g / 24.3 oz

Specifications



IP Speaker (8000-00003)

Speaker Component	4.5 in Full Range Driver Unit
Sensitivity	91 dB / 1 m / 1 W
Max Sound Pressure Level	101 dB
Frequency Response	70 Hz to 20 KHz
Coverage Pattern	90°H 50°V 30m²
Amplifier	Single Channel Class-D Topology
THD	<0.1%
Rated Power	8 Ω 10 W
Network Audio Codec	G.722, G.711 a-law, G.711 u-law, Opus

Microphone

Directivity	Omni-Directional
Sensitivity	-36 dB ± 2 dB
Impedance	2.2 kΩ (Max)
S/N Ratio	65 dB
Maximum Input Sound Pressure Level	110 dB THD ≤ 3%
Standard Operating Voltage	2.0 Vdc
Current Consumption	500 µA (max)

Network

Ethernet	IEEE 802.3 10 / 100 Base-T
PoE	IEEE 802.3 at Compliant
Supported Protocols	SIP(RFC3261), HTTP, TCP/IP, SSL, DNS, SNTP, NTP, RTSP, RTP, RTCP, TCP, UDP, MQTT, ICMP, DHCP, ARP, SSH
IP Addressing	DHCP / Static

Mechanical Properties

Memory	128 MB RAM, 256 MB Flash
Power Input	PoE+ and External 24VDC - not included
Casing Material	Cold rolled steel finished in textured white epoxy
Mounting Method	Wall mounted
Color	White
Weight	3.25 kg / 7.17 lb
Dimensions	300 x 300 x 92 mm / 11.81 x 11.81 x 3.62 in

Environmental

Installation Environment	Indoor
Operating Temperature	-20°C to 50°C (-4°F to 122°F)
Storage Temperature	-40°C to 70°C (-40°F to 158°F)
Humidity	10% to 95% RH non-condensing



IP Speaker Clock (8000-00004)

Speaker Component	4.5 in Full Range Driver Unit
Sensitivity	91 dB / 1 m / 1 W
Max Sound Pressure Level	101 dB
Frequency Response	70 Hz to 20 KHz
Coverage Pattern	90°H 50°V 30m²
Amplifier	Single Channel Class-D Topology
THD	<0.1%
Rated Power	8 Ω 10 W
Network Audio Codec	G.722, G.711 a-law, G.711 u-law, Opus

Microphone

Directivity	Omni-directional
Sensitivity	-36 dB ± 2 dB
Impedance	2.2 kΩ (Max)
S/N Ratio	65 dB
Maximum Input Sound Pressure Level	110 dB THD ≤ 3%
Standard Operating Voltage	2.0 Vdc
Current Consumption	500 µA (Max)

Display

Display Type	High-resolution back-lit color LCD display
Display Color	16-bit RGB
Brightness	600 cd/m²
Resolution	1920 x 480
Viewable Dimensions	219.1 x 54.9 mm / 8.63 x 2.16 in
Text Display	Configured via WebGUI

Network

Ethernet	IEEE 802.3 10 / 100 Base-T
PoE	IEEE 802.3 at Compliant
Supported Protocols	SIP(RFC3261), HTTP, TCP/IP, SSL, DNS, SNTP, NTP, RTSP, RTP, RTCP, TCP, UDP, MQTT, ICMP, DHCP, ARP, SSH
IP Addressing	DHCP / Static

Mechanical Properties

Memory	128 MB RAM, 256 MB Flash
Power Input	PoE+ and External 24 VDC - not included
Casing Material	Cold rolled steel finished in textured white epoxy
Mounting Method	Wall mounted
Color	White
Weight	3.25 kg / 7.17 lb
Dimensions	300 x 300 x 92 mm / 11.81 x 11.81 x 3.62 in

Environmental

Installation Environment	Indoor
Operating Temperature	-20°C to 50°C (-4°F to 122°F)
Storage Temperature	-40°C to 70°C (-40°F to 158°F)
Humidity	10% to 95% RH Non-condensing

Specifications



Horn Speaker (8000-00005)

Speaker Component	1.5 inches midrange driver unit
Sensitivity	105 dB / 1 m / 1 W
Max Sound Pressure Level	115 dB
Amplifier	Class D Amplifier
Rated Power	PoE: at -8 Ω 15 W
Frequency Range	400 Hz to 8 KHz
Coverage Pattern	50°H 50°V, effective distance 70 m
Acoustics	Mono

Audio

Audio Codecs	G.722, G.711 a-law, G.711 u-law, Opus
Audio Streaming	MP3 sampling rate 8 KHz to 48 KHz, bit rate 64kbps to 320 kbps, Mono or Stereo

Microphone

Microphone	Electret condenser microphone
Directionality	Omni-directional
Installation method	Built-in
Sensitivity	-36 dB $\pm$ 2 dB
SNR	65 dB
Maximum input sound pressure	110 dB (THD $\leq$ 3%)
Maximum pickup distance	Up to 10m in a 50dB noise environment

Interface

Interface	RJ45 connector for PoE 3-pin 3.81 mm Phoenix terminal for one button and one light 2-pin 3.81 mm Phoenix terminal for Relay (NO, COM) DC 24 V-1 A Power interface
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Strobe Light (6400-00125)

Trigger options	• Detect normally open or normally closed dry contacts. Max 6.5 k Ohm external resistance • IP based commands • Ringing from FXS port or phone line
Optical	64 LEDs 370 – 690 Lumens (color dependent), 102 – 90 Candela (color dependent).
Flash Patterns	20 Configurable from 180 combinations of LED flash pattern, intensity, and color(s)
Mounting	Plastic mounting bracket included fitting single and double gang electrical boxes or low voltage brackets
Environmental	-40°F to +123°F (-40°C to +50°C) Outdoor/wet environments require installation using supplied gaskets on smooth surfaces or electrical box. IP66 rated if properly installed.
Power Input	PoE IEEE 802.3af Idle nominal 2.0W maximum 12.95W
Regulatory Compliance	IEEE 802.3-2018, RoHS, CE, FCC Class A, CISPR 32 Class A, CISPR 24, CSA/UL (USA & Canada) & IEC 62368-1
Includes	Plastic mounting bracket

Network

Interface	10/100 Mbps, support PoE IEEE 802.3at
Protocols	SIP (RFC3261), HTTP, TCP/IP, SSL, DNS, SNTP, NTP, RTSP, RTP, RTCP, TCP, UDP, MQTT, ICMP, DHCP, ARP, SSH

Mechanical Properties

Memory	128 MB RAM, 256 MB Flash
Power input	PoE IEEE802.3at standard or DC 24 V to 1 A
Casing	Anti-rust treated 1060 pure aluminum
IP Rating	IP66
Color	White
Weight	2 kg / 4.4 lbs
Dimensions	220 x 235 mm (8.66 x 9.25 in)
Mounting method	Wall/Pole mounted

Environmental

Installation Environment	Indoor/Outdoor
Operating Temperature	-30°C to 70°C (-22°F to 158°F)
Storage Temperature	-40°C to 70°C (-40°F to 158°F)
Humidity	10% to 95% RH Non-condensing

Approvals

Approvals	EN 55032:2015, EN 55035:2017, EN 61000-3-2:2014, EN 61000-3-3:2013, EN 62368-1:2014+A11:2017, FCC Part 15B
Warranty Coverage	2 Years



Intercom/Emergency Switch (MC-CS-2BM-V1)

Physical buttons	Two momentary buttons
Faceplate	Single-gang Decora
Buttons	Tactile feel
Interface	RJ45 connection at the switch

Specifications



SM10 SIP Paging Interface (8000-00002)

Amplifier Output	2x10W, 8Ω (4 pins)
Headset Output	3.5mm Jack
Microphone	3.5mm Jack

Other Interfaces

Power Input	DC 12V-3A Jack
Volume Control	VOL+ and VOL-, press both to announce IP address
Ethernet	ETH0 + ETH1, 10/100Mbps, ETH0 with PoE IEEE 802.3at enabled
Call button	Support 2 call buttons (switch button)
Digital level input	5V Max
Dry Contact	NO/NC contacts, max AC 125V-1A, DC 60V-1A

Audio

Audio Codecs	G.722, G.711 A-law, G.711 U-law, Opus
Music Streaming	MP3 sampling rate 8 ~ 48KHz, bit rate 64 ~ 320kbps, mono or Stereo

Protocols

Protocols	SIP(RFC3261), HTTP, TCP/IP, SSL, DNS, SNTP, NTP, RTSP, RTP, RTCP, TCP, UDP, MQTT, ICMP, DHCP, ARP, SSH
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Administration

Configuration	Web interface or auto provisioning server
Provision method	MQTT IoT Protocol

Mechanical Properties

Processor	ARM Cortex-A35
RAM	128MB DDR3
Storage	128MB SLC (Single-Level-Cell) Flash

Environment

Working Environment	4°F ~ +122°F -20°C ~ +50°C
Storage Environment	-40°F ~ +167°F -40°C ~ +75°C
Humidity	10% ~ 95% RH (Relative Humidity) Non-condensing

Other

Dimension	6 x 3in 153 x 76 x 33mm
Weight	10.6 oz 303 g
Reset Key	Press and hold for 5 seconds to reset to factory defaults
LED Indicator	PWR power indicator, SYS system indicator

Learn more at boxlight.com