Instruct.
Announce.
Alert.

UNITY – The first of its Kind

Unify classroom audio, instructional technology, campus communication, and emergency notification and response. UNITY is the ed-tech device that everyone can agree on–making the work of admins, IT, and teachers more efficient and effective.

#Unity | Boxlight.com

TURN TO ADJUST MIC AND VOLUME

ACTION TEACHER MICROPHONE

LOCK PANEL

PAIR MICROPHONES IN SECONDS

AJUST MIC LEVELS

PAIR BLUETOOTH

ACTION BUTTONS
Set to turn on displays and cameras, open blinds or go solo.

ACTION BUTTON 1

ACTION BUTTON 2

Upgrade at anytime

The Removable Faceplate allows for in-field upgrade to UNITY Campus in seconds!

CLASSLIGHT

INITIATE ALERT
To Administrators

DIRECT COMMUNICATION WITH THE OFFICE

Key Features

Intercom.
Need something?
Call the office.

Ready, set... action!
Turn on displays and cameras, open blinds, go Solo.

Security lock-down.
Lock-down procedure with a single command from anywhere.

Classroom control.
Controlled directly from your interactive display.

Campus communication.
Campus audio system when used with Conductor.

Bluetooth.
Play audio from your phone, tablet, or PC.

Get help.
Initiate an Alert to administrators.

Remote management.
Remotely deploy scheduled firmware updates.

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BOXLIGHT

Classroom control and management

Meet the next generation of classroom audio and instructional control and management.
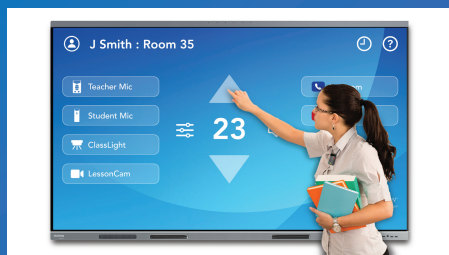
The Action! Teacher Microphone

Optimized for enhanced learning, the Action! Teacher Microphone allows teachers to speak naturally, eliminating vocal fatigue, and control instructional devices from anywhere in the room. In case of emergencies, UNITY and the Action! Teacher microphone are equipped with alert buttons for quick access to help.

ClassLight

ClassLight can be installed up to 50 feet from UNITY, providing visual indicators for various system statuses. ClassLight changes color to signal Bluetooth and microphone pairing, Solo mode Paging, Intercom, and Alerts, ensuring clear and immediate communication.

MyFrontRow app

The MyFrontRow App makes it easy for teachers to control your classroom audio, UNITY device and Interactive displays, from anywhere. Reduce IT Support calls, adjust volume levels, pair microphones and more.

FlipCharger

The FlipCharger microphone charging cradle can be placed on a surface, like a desk or shelf, or mounted vertically on a wall. This smart charger keeps microphone batteries healthy and ready for eight hours of use.
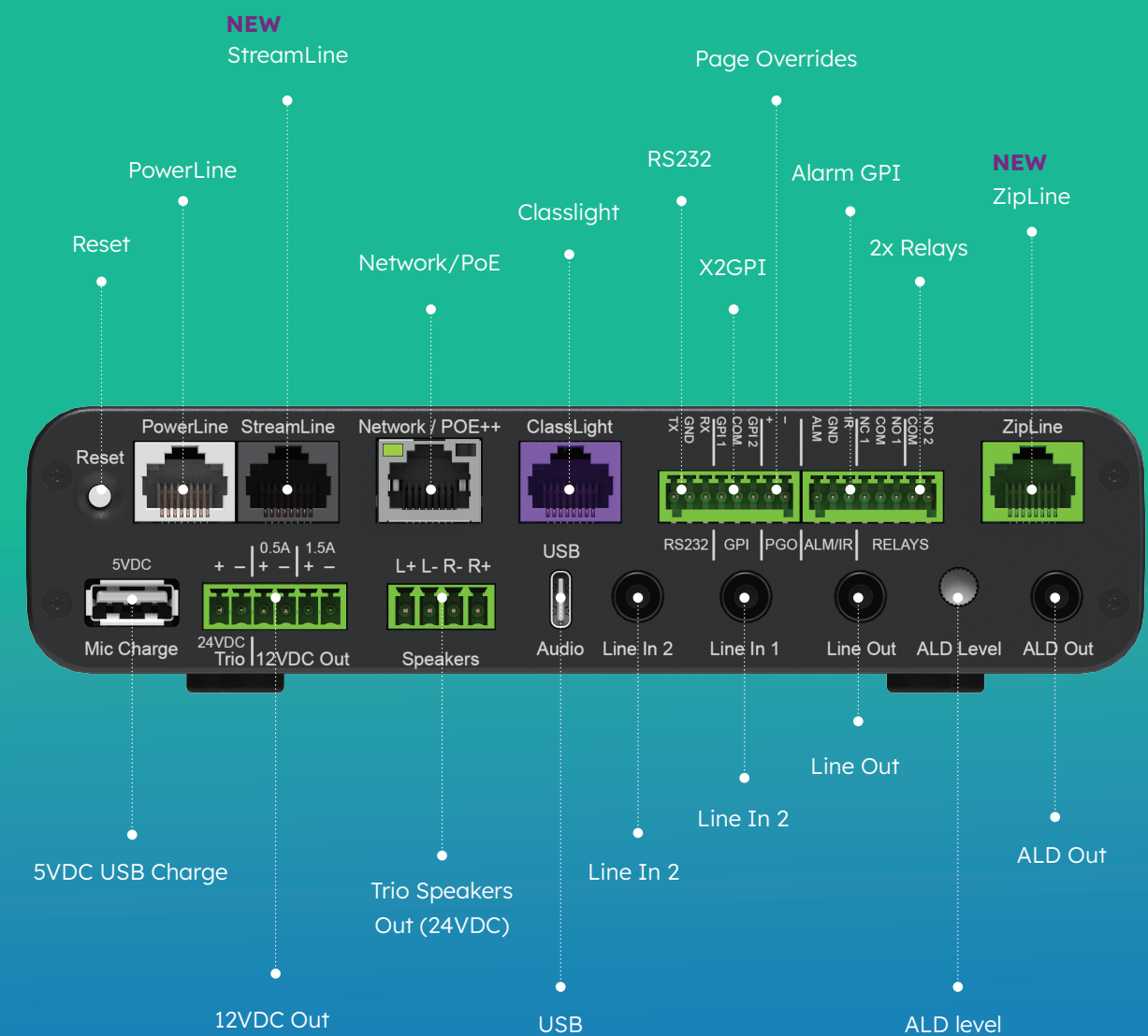
Bravo! Student Microphone

Students are more likely to participate when their voices are elevated as well. The Bravo! microphone ensures that a student can be heard by others in the classroom and online. All your microphones come paired with your system.

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■ BOXLIGHT

Fully capable, expandable and scaleable

More control and audio inputs and outputs than any other classroom audio system. No other solution does more!

NEW StreamLine
PowerLine
Reset
Network/PoE
Page Overrides
Classlight
RS232
Alarm GPI
NEW ZipLine
X2GPI
2x Relays

Reset | PowerLine | StreamLine | Network / POE++ | ClassLight | RS232 | GPI | PGO | ALM/IR | RELAYS | ZipLine

5VDC | 24VDC | 0.5A | 1.5A | L+ L- R- R+ | USB
Mic Charge | Trio | 12VDC Out | Speakers | Audio | Line In 2 | Line In 1 | Line Out | ALD Level | ALD Out

Line Out
Line In 2
ALD Out

5VDC USB Charge
Trio Speakers Out (24VDC)
Line In 2
12VDC Out
USB
ALD level

2 powerful new ports.
StreamLine and ZipLine for future expansion.

Power from anywhere.
Built-in PowerLine and connect up to 100ft away.

PoEE+.
The only system to support full time or backup PoE+ or PoE++.

Audio.
Bring in all your audio sources. Send out a balanced mix.

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■ BOXLIGHT

Unity Base Unit Specifications

Physical Device

Dimensions	45mm tall (1 - 49/64") 175.7mm wide (6 - 59/64") 203.6mm deep w/o faceplate (8 - 1/64") 222.6mm deep w/ faceplate & Knob (8 - 49/64")
Weight	0.760kg / 1.68lbs

Network

Network Support	10/100 Mb/s (auto sensing)

Amplifier

Power	32W continuous (2 channels x 16W @ 4Ω) Use four(4) - 8 Ohm FrontRow Lay-In or Cut-In Speakers wired in parallel for 32W, for complete classroom coverage. Use two(2) - 8 Ohm FrontRow Lay-In speakers for 16W for smaller rooms.
THD	1kHz, at nominal level (1 watt, 8-ohm load)
Type	Class D
Signal-to-Noise	>84 dB @ 20 Hz to 20 kHz at maximum output (unweighted, with balanced input)

Audio

Speaker Out	Left / Right channel - Phoenix connector
Line Out	1, 3.5 mm line level output (TRS Stereo Unbalanced)
ALD Line Out	1, 3.5 mm line level output (TRS - Mono Unbalanced) with rotary volume control for assistive listening devices (Headworn microphone 1000-00235 with teacher mic recommended for best experience)
USB-C In/Out	1, USB-C bidirectional audio (USB-2.0)
Line In	2, 3.5 mm line level inputs (TRS Stereo Unbalanced)

Control

RS 232	1, RS 232 connection – 500mA – Phoenix connector
Serial Baud Rate	2400 to 115200
GPI	2, General Purpose Inputs – Phoenix connectors
Relay	1, Normally open / Normally closed – Phoenix connector 1, Normally open – Phoenix connector
Alarm Input	1, Alarm input – Phoenix connector
Analog Page Mute	1, Page Override (PGO) – Phoenix connector
IR Output	1, IR out – Phoenix connector

Power

Power Out	1, RS 232 connection – 500mA – Phoenix connector
Power In	2400 to 115200

Other Connections

ClassLight	Multi-color LED beacon for paging, intercom, bells, and alerts
Zipline	Future accessory expansion port
StreamLine	Future accessory expansion port

Microphone Reciever Specifications

General Spec

Frequency Response	150hz to 7.5Khz +/-3db
Carrier Frequency	1.9GHz Band (1.92-1.93 GHz US/CAN, 1.88-1.90 GHz UK/EU/AUS)
Number of mics registered per base station	8 can be registered, 4 can be active
Number of base stations each mic can register with	1 Base stations per mic
Operating Range	(open field) 250ft (Line of sight)
Maximum number per school	No limit
DECT Standard	6.0/EU selectable
Wireless Communication	ELEVATE™ technology
Operating Territories	US/CAN - EU/UK/AUS, selectable

Bluetooth Specifications

Bluetooth Standard	4.1 BR/EDR
Profile	A2DP for high quality stereo audio
Codecs	SBC, MP3, FastStream
Multipoint support	Connect up to 2 devices at once (1 can stream at a time)
Typical range	Up to 18.2m/60ft depending on transmitter
Latency	40ms - 200ms depending on codec and environment

Remote Management

Web Interface	Complete control of all UNITY settings via device IP address access
Control Commands	Remotely trigger soft and hard resets, ClassLight colors, audio levels, mic and Bluetooth pairing, control I/O commands and more
Rollout App	Network device discovery, device data, configuration file updates, firmware updates. Windows 10 or later.

Classroom Control

MyFrontRow App	Available for Boxlight displays, MacOS, Android tablets, iPad, and Windows PC. (see MyFrontRow datasheet).

Mounting Options

Tower Holder	For UNITY tower (vertical) model, drop-in flexible holder with rubberized grips (Included)
Wall Mount Bracket (Sold Seperate)	Mount on the wall behind an interactive display panel. Articulated spring-hinge arm with 90 degree rotation for easy cable access and management. Dual cable posts for wrapping cables for a clean install.
M6 threaded insert	Bottom of unit. For securing to shelves for theft prevention.
None	Shelf (horizontal model) can be placed directly on a desk or shelf.

Elevate Microphone Specifications

General Spec

Battery Type/Voltage/Am-perage	LiPo 3.7V, 650mA
Battery Life (hours) - talk time	8+hrs US / 7+ EU/AUS
Recharge Time	3.5 hrs
RF Power (dBm)	19dbm peak (teacher only), 6dbm average - US/CAN, 24/10 in UK/EU/AUS
Weight	44.3g / 1.5oz (teacher) 89.7g / 3.16oz (student)
Size (HxWxD)	68 x 36 x 22mm / 2.7 x 1.4 x 0.9 inches (teacher) 118 x 36 x 22mm / 4.6 x 1.4 x 0.9 inches (student)
Headset in	3.5mm TRRS (T=left, R1=Right, R2=Mic, S=Gnd), use with FrontRow headworn mic (1000-00235) or plug in an audio source
Wireless Communication	ELEVATE™
Operating Territories	US/CAN - EU/UK/AUS, selectable

FlipCharger

Size (HxWxD)	127 x 71 x 38 mm / 5 x 2.8 x 1.5 in
Weight	110g/3.9oz
Power Supply	5.9V / 700mA
Mounting Options	Wall Mount (frame included), Desktop

Power Over Ethernet Compatibility

PoE+

Standard	802.3at
Type	2
Class	4
Power Sent	30W
Power at Endpoint	25.5W
Cabling	Cat5e
UNITY Support	Maximum amp power may be limited to 25.5W (same as any device running PoE+) ClassLight not supported. Supports fulltime or backup power.

PoE++

Standard	802.3bt
Type	3
Class	6
Power Sent	60W
Power at Endpoint	51W
Cabling	Copper Cat6a or better recommended. Cable compatibility test kits available from Boxlight.
UNITY Support	All UNITY features supported, including ClassLight. Recommended for new construction or campus communication with ClassLight. Supports fulltime or backup power.

PoE++

Standard	802.3bt
Type	4
Class	8
Power Sent	90W
Power at Endpoint	71W
Cabling	Copper Cat6a or better recommended. Cable compatibility test kits available from Boxlight.
UNITY Support	All UNITY features, including ClassLight, plus future accessories.

Statement

Size and weight vary by configuration and manufacturing process, please refer to the actual product. The product images are for illustrative purposes only and may be slightly different in appearance, color, size, etc. from the actual product. The description, illustrations, etc. in this document may be subject to change in accordance with the latest product specifications and performance. Should the above-mentioned change in the document become necessary, the document may be updated without written notice.