

# Veritas 2160BL

## smart mixer amplifier



## Product Overview

The award-winning Veritas series from Bose Professional delivers superior background/foreground music, paging and multimedia for commercial applications. *Bluetooth*® 5.0 wireless input and user-intuitive OLED screen with quick-start QR code simplify setup—whether you're a pro installer or a DIYer. With four models to choose from, Veritas amplifiers offer the perfect combination of power, performance and flexibility.

For applications requiring more power in a low-impedance 4/8-ohm system, the 2160BL delivers robust sound for larger rooms, restaurants, and performance spaces. It provides high output with advanced DSP tuning, perfect for integrators needing a high-performance amplifier for dynamic commercial audio without the complexity of a 70V/100V system.

## Key Features

- Premium amplification** with advanced DSP for optimized performance
- Bluetooth connectivity** and RCA connectivity—no wire splicing required
- Intuitive front-panel OLED screen** for easy setup and control
- Embedded quick-start QR code** in the OLED screen simplifies installation
- Supports low-impedance** (4–8Ω) applications
- Remote level control** with Bose Professional or third-party wall controllers
- Dynamic EQ** adjusts bass levels to achieve a fuller sound even at low volumes
- Up to 30 selectable EQ presets** ensure Bose Professional signature sound performance and long-term reliability
- Opti-Voice** paging feature ensures clear speech intelligibility

## Applications

- Retail stores
- Restaurants and bars
- Hospitality venues
- Conference centers
- Schools
- Auxiliary zones

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## Technical Specifications

<b>POWER RATING</b>		
Amplifier Power	2 × 160 W at 4 Ω / 2 × 80 W at 8 Ω	
<b>AUDIO PERFORMANCE</b>		
Frequency Response	20 Hz – 20 kHz (+0/-3 dB, @ 1 W reference 1 kHz)	
THD+N	≤ 0.5 % (at rated power)	
Channel Separation (Crosstalk)	≤ -58 dBu (below rated power, 1 kHz)	
Dynamic Range	88 dB	
<b>INTEGRATED DSP</b>		
A/D & D/A Converters	24-bit, 48 kHz	
Processing Functions	Volume, tone controls, Opti-Voice paging, loudspeaker EQ, Dynamic EQ	
Loudspeaker Presets	Flat, 80 Hz high-pass filter, AMU105, AMU108, DesignMax (all models), EdgeMax (all models), FreeSpace FS (all models), subwoofer	
Audio Latency	10.4 ms (any input to speaker output or aux output)	
<b>AUDIO INPUTS</b>	<b>Line Inputs</b>	<b>Page Inputs</b>
Input Channels	(2) balanced, (2) unbalanced	(1) balanced mic/line
Connectors	(2) RCA stereo pairs, (2) 5-pin Euroblock	(1) 4-pin Euroblock
Input Range	-8 dBu to +22 dBu	-58 dBu to +12 dBu
Adjustment Range	-20 dB to +20 dB	0 dB to +50 dB
Input Impedance	20 kΩ	2 kΩ
Maximum Input Level	22 dBu	12 dBu
Sensitivity	-8 dBu	-58 dBV
Nominal Input Level	4 dBu	-38 dBu
<b>AUDIO OUTPUTS</b>	<b>Loudspeaker Outputs</b>	<b>Auxiliary Outputs</b>
Output Channels	(2) loudspeaker	(1) unbalanced line
Connectors	(2) 2-pin inverted Euroblock	(1) RCA stereo pair
Output Impedance	4 Ω	400 Ω
Nominal Output Level	2 × 160 W at 4 Ω / 2 × 80 W at 8 Ω	2 dBu
<b>INDICATORS &amp; CONTROLS</b>		
Power LED	Solid blue (powered on), blinking blue (standby mode)	
Input Signal LED	Green (-34 dBu to +10 dBu), red (> +10 dBu). Input gain level set to 5.	
Output Limit LED	Green (-40 dBFS to -2 dBFS), red (> -2 dBFS). Approximately 100 W/channel. For each output, 160 W is 0 dBFS.	
Bluetooth LED	Off (no Bluetooth device connected), blinking blue (ready to pair to a Bluetooth device), solid blue (connected to a Bluetooth device)	
Display	OLED, 16-bit grayscale, 96 × 96 resolution	
Controls, Front Panel	Power on/off switch, input select switch (A/Bluetooth/B), rotary encoder	
Controls, Rear Panel	Amplifier mode DIP switches, input gain knobs (A, B, page), page threshold knob, mute connector, ControlCenter port	

For additional specifications and application information, visit [BoseProfessional.com](https://BoseProfessional.com). Specifications are subject to change. 05/2025

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<b>ELECTRICAL</b>	
Mains Voltage	100 VAC – 240 VAC (±10%, 50/60 Hz)
AC Power Consumption	13.6 W standby, 500 W maximum
Mains Connector	Standard IEC (C14)
Overload Protection	High temperature, output short, excessively low or high AC line voltage
<b>PHYSICAL</b>	
Cooling System	Fan system, left-to-right airflow
Product Dimensions (height × width × depth)	44 mm × 483 mm × 324 mm (1.7 in × 19.0 in × 12.8 in)
Net Weight	4.4 kg (9.7 lb)
Shipping Weight	5.8 kg (12.8 lb)
Package Contents	(1) Veritas 2160BL, (4) mounting feet with pins, (2) 5-pin Euroblock connectors, (1) 4-pin Euroblock connector, (3) 2-pin Euroblock connector, (1) power cord, (1) installation guide
Optional Accessories	ControlCenter CC-1, ControlCenter CC-2
<b>PRODUCT CODES</b>	
Veritas 2160BL, 120 V, US	892119-1110 VERITAS 2160BL 120V US
Veritas 2160BL, 230 V, EU	892119-2110 VERITAS 2160BL 230V EU
Veritas 2160BL, 230 V, UK	892119-4110 VERITAS 2160BL 230V UK
Veritas 2160BL, 100 V, JP	892119-3140 VERITAS 2160BL 100V JP
Veritas 2160BL, 230 V, CN	892119-2140 VERITAS 2160BL 230V CN
Veritas 2160BL, 240 V, AU	892119-5110 VERITAS 2160BL 240V AU
ControlCenter CC-1, US, black	768932-0110 CONTROLCENTER CC-1 US BLACK
ControlCenter CC-1, US, white	768932-0210 CONTROLCENTER CC-1 US WHITE
ControlCenter CC-1, EU, black	768932-2110 CONTROLCENTER CC-1 EU BLACK
ControlCenter CC-1, EU, white	768932-2210 CONTROLCENTER CC-1 EU WHITE
ControlCenter CC-1, JP, black	768932-3110 CONTROLCENTER CC-1 JP BLACK
ControlCenter CC-1, JP, white	768932-3210 CONTROLCENTER CC-1 JP WHITE
ControlCenter CC-2, US, black	768938-0110 CONTROLCENTER CC-2 US BLACK
ControlCenter CC-2, US, white	768938-0210 CONTROLCENTER CC-2 US WHITE
ControlCenter CC-2, EU, black	768938-2110 CONTROLCENTER CC-2 EU BLACK
ControlCenter CC-2, EU, white	768938-2210 CONTROLCENTER CC-2 EU WHITE
ControlCenter CC-2, JP, black	768938-3110 CONTROLCENTER CC-2 JP BLACK
ControlCenter CC-2, JP, white	768938-3210 CONTROLCENTER CC-2 JP WHITE

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## Hardware Details



- Power switch:** Turns amplifier on or off.
- Power LED:** Solid blue LED indicates the unit is on. Blinking blue LED indicates the unit is in standby mode.
- Input signal/clip LED:** LED is green from -34 dBu to +10 dBu. LED turns red over +10 dBu. Input gain level set to 5.
- Output signal/clip LED:** LED is green from -40 dBFS to -2 dBFS. LED turns red over -2 dBFS, approximately 100 W/channel. For each output, 160 W is 0 dBFS.
- Bluetooth LED:** LED is off when no device is connected to *Bluetooth* technology. LED blinks blue when ready to pair with a *Bluetooth* enabled device. LED is solid blue when a *Bluetooth* enabled device is connected.
- Input selection switch:** Selects either Input A/*Bluetooth* or Input B source connection.
- Display:** 16-bit grayscale OLED display, 96 × 96 resolution.
- Rotary encoder:** Controls the menu interface as well as adjusts volume, bass, and treble levels.



- Line input:** Balanced and unbalanced line-level input connectors (processed as stereo signals).
- Gain knob:** Allows for -20 dB to +20 dB of adjustment to each Input A/B. Allows for 0 dB to +50 dB of gain control of page input signal.
- Page input:** Euroblock mic/line input that supports dynamic microphones with voice activation (VOX) or a trigger contact closure for use with push-to-talk (PTT) microphones.
- Mute connector:** Contact closure connection that upon trigger will mute all outputs (including aux output).
- Threshold knob:** Adjusts the level at which the VOX page input signal causes other inputs to be lowered. A 10 dB adjustment range lifts the page trigger level away from the noise floor to prevent false triggers. At minimum setting, a -70 dBu signal will trigger a VOX page. At maximum setting, a -60 dBu signal will trigger a VOX page. When in PPT page mode this adjustment is not active.
- DIP switches:** Configure various functions/features such as the output mode or paging. Refer to the online user documentation for more information.
- Update port:** USB-C port for software updates.
- Aux output:** Variable or fixed, unbalanced line-level output signal for use with zone amplifiers or for routing the signal to additional audio equipment.
- ControlCenter port:** Input connector for either a CC-2 zone controller for volume control and A/B source selection or a CC-1 zone controller for volume control only.
- Loudspeaker output:** Two inverted 2-pin Euroblock connectors for loudspeaker connections. Outputs are not bridgeable.
- Power input:** Standard IEC power cord receptacle.

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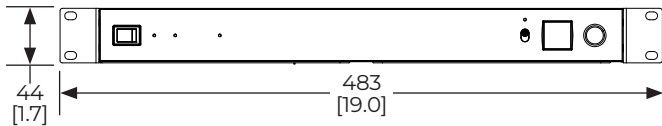
smart mixer amplifier

## AC Current Draw & Thermal Dissipation

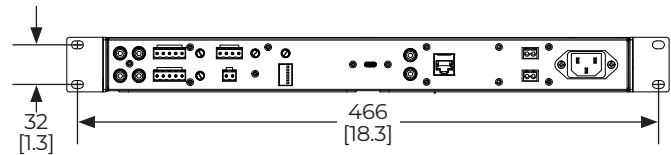
	Test signal & power level <sup>6</sup>	Load configuration (both channels driven)	Total audio output (W)	Current Draw (A)	Thermal dissipation, maximum		
					(W)	(BTU/h)	(kcal/h)
120 VAC	Power on, idle	—	0	0.16	19	65	16
	1/8 rated power	8 Ω/channel	20	0.36	23	79	20
	1/3 rated power	8 Ω/channel	53	0.72	34	116	29
	1/8 rated power	4 Ω/channel	40	0.58	30	102	26
	1/3 rated power	4 Ω/channel	107	1.28	47	160	40
230 VAC	Power on, idle	—	0	0.13	30	102	26
	1/8 rated power	8 Ω/channel	20	0.22	32	109	28
	1/3 rated power	8 Ω/channel	53	0.40	39	133	34
	1/8 rated power	4 Ω/channel	40	0.34	39	133	34
	1/3 rated power	4 Ω/channel	107	0.69	52	177	45

## Dimensions<sup>7</sup>

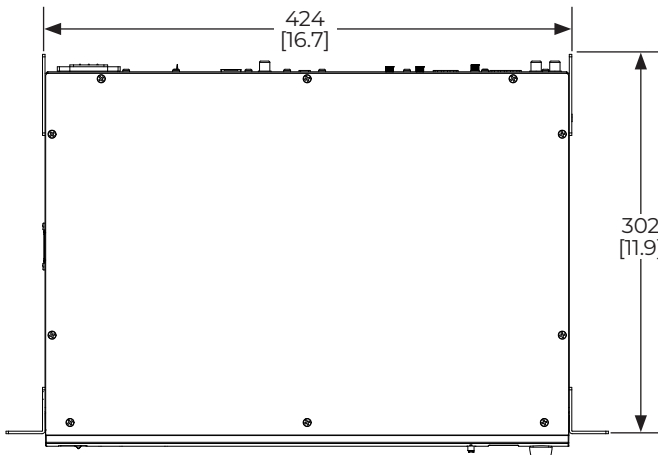
Front View



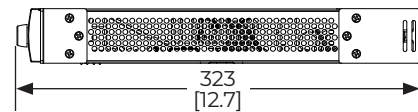
Rear View



Top View<sup>8</sup>



Right View<sup>8</sup>



6. IEC 268 band-limited pink noise, 6 dB crest factor, with flat amplifier EQ preset.

7. Dimensions are shown in millimeters over inches.

8. Dimensions also apply to opposite side.

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