TECHNICAL DATA

Veritas 2160BH

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.

The ultimate choice for large-scale 70V/100V distributed audio systems, the 2160BH efficiently powers multiple zones with premium sound clarity and reliable, consistent coverage. Ideal for hotels, conference centers, and multi-room installations, the 2160BH offers high output with advanced features for integrators handling complex, high-demand applications.

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 high-impedance (70/100V) applications

Multi-zone flexibility—support for up to four independent zones

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

For additional specifications and application information, visit BoseProfessional.com. Specifications are subject to change. 05/2025

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Technical Specifications

POWER RATING		
Amplifier Power	2 × 160 W at 70V/100V	
AUDIO PERFORMANCE		
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	
INTEGRATED DSP		
A/D & D/A Converters	24-bit, 48 kHz	
Processing Functions	Volume, tone controls, Opti-Voice paging, loudspeaker EQ, Dynamic EQ	
Loudspeaker Presets	70 Hz high-pass filter, 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)	
AUDIO INPUTS	**Line Inputs**	**Page Inputs**
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 dBu
Nominal Input Level	4 dBu	-38 dBu
AUDIO OUTPUTS	**Loudspeaker Outputs**	**Auxiliary Outputs**
Output Channels	(2) loudspeaker	(1) unbalanced line
Connectors	(2) 2-pin inverted Euroblock	(1) RCA stereo pair
Output Impedance	n/a	400 Ω
Nominal Output Level	2 × 160 W at 70V/100V	2 dBu
INDICATORS & CONTROLS		
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 ports, 70V/100V switch	

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ELECTRICAL	
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
PHYSICAL	
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 2160BH, (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
PRODUCT CODES	
Veritas 2160BH, 120 V, US	892121-1110 VERITAS 2160BH 120V US
Veritas 2160BH, 230 V, EU	892121-2110 VERITAS 2160BH 230V EU
Veritas 2160BH, 230 V, UK	892121-4110 VERITAS 2160BH 230V UK
Veritas 2160BH, 100 V, JP	892121-3140 VERITAS 2160BH 100V JP
Veritas 2160BH, 230 V, CN	892121-2140 VERITAS 2160BH 230V CN
Veritas 2160BH, 240 V, AU	892121-5110 VERITAS 2160BH 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



1. **Power switch:** Turns amplifier on or off.
2. **Power LED:** Solid blue LED indicates the unit is on. Blinking blue LED indicates the unit is in standby mode.
3. **Input signal/clip LED:** LED is green from -34 dBu to +10 dBu. LED turns red red over +10 dBu. Input gain level set to 5.
4. **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.
5. ***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.
6. **Input selection switch:** Selects either Input A/*Bluetooth* or Input B source connection.
7. **Display:** 16-bit grayscale OLED display, 96 × 96 resolution.
8. **Rotary encoder:** Controls the menu interface as well as adjusts volume, bass, and treble levels.



1. **Line input:** Balanced and unbalanced line-level input connectors (summed to mono).
2. **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.
3. **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.
4. **Mute connector:** Contact closure connection that upon trigger will mute all outputs (including aux output).
5. **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.
6. **DIP switches:** Configure various functions/features such as the output mode or paging. Refer to the online user documentation for more information.
7. **Update port:** USB-C port for software updates.
8. **Aux output:** Variable or fixed, unbalanced line-level output signal for use with zone amplifiers or for routing the signal to additional audio equipment.
9. **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.
10. **70V/100V switch:** Selects the Hi-Z output voltage level for powering 70V or 100V loudspeakers.
11. **Loudspeaker output:** Two inverted 2-pin Euroblock connectors for loudspeaker connections. Outputs are not bridgeable.
12. **Power input:** Standard IEC power cord receptacle.

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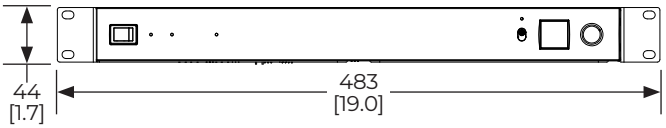
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AC Current Draw & Thermal Dissipation

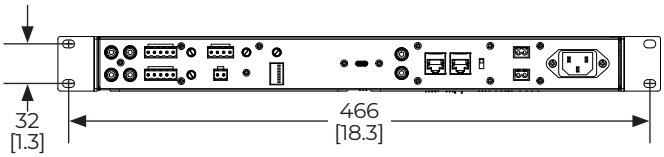
	Test signal & power level [6]	Load configuration (both channels driven)	Total audio output (W)	Current Draw (A)	Thermal dissipation, maximum (W)	(BTU/h)	(kcal/h)
120 VAC	Power on, idle	—	0	0.17	21	72	18
	1/8 rated power	70 V	40	0.66	40	137	35
	1/3 rated power	70 V	107	1.43	64	219	55
	1/8 rated power	100 V	40	0.47	17	58	15
	1/3 rated power	100 V	107	1.07	21	72	18
230 VAC	Power on, idle	—	0	0.17	40	137	35
	1/8 rated power	70 V	40	0.38	48	164	41
	1/3 rated power	70 V	107	0.77	69	236	59
	1/8 rated power	100 V	40	0.29	27	92	23
	1/3 rated power	100 V	107	0.63	38	130	33

Dimensions [7]

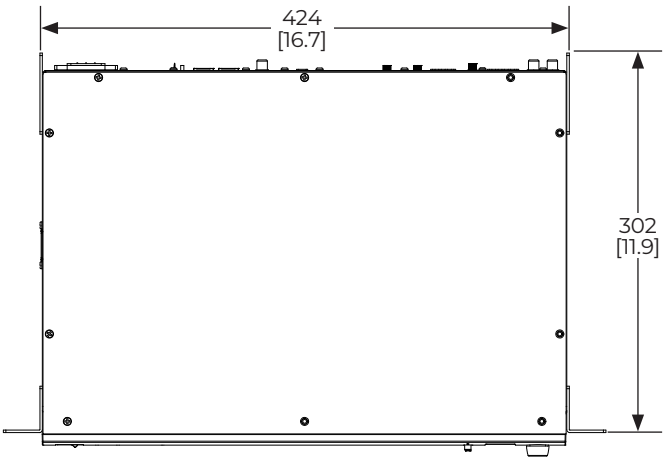
Front View



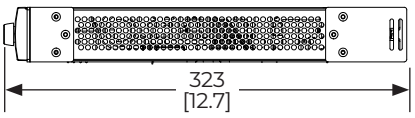
Rear View



Top View [8]



Right View [8]



6. IEC 268 band-limited pink noise, 6 dB crest factor, with 70 Hz high-pass filter amplifier EQ preset.
7. Dimensions are shown in millimeters over inches.
8. Dimensions also apply to opposite side.

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