FOSTEX

8588131000
(587416)

Owner's Manual

Active monitor speaker

6301ND/NX/NE/NB



Thank you for purchasing this Fostex product.
This manual provides instructions for basic use of the unit.
Read this before using the unit for the first time.

More information : click here

Introduction

The 6301N series are small monitors with built-in amplifiers for various kinds of monitoring.

■ Features of 6301ND/NX/NE/NB

- The cone–shaped, full-range speaker produces stable sound.
- As the speaker is compact and consists of a single unit, it can be placed anywhere.
- The speaker uses a tough, aluminum die cast enclosure.
- The speaker has the same width and height as the older model, so upgrading is easy.
- Switches and knobs do not protrude from the panel to prevent damage caused if the speaker falls over.
- Equipped with a switching power circuit compatible with 100 V to 240 V AC power supplies.
- By attaching wall mounting bracket EB-6301 (sold separately) to the unit, you can both adjust the angle of the unit and fix it to walls.
- The unit has an auto standby function that saves power automatically (power consumption of 0.5 W or less) when input continuously falls below a certain level.

■ Comparison of the different models

	Input	Output
6301ND	Digital (AES/EBU)/XLR Analog (unbalanced)/phone	THRU (AES/EBU) /XLR
6301NX	Analog (transformer type balanced)/XLR Analog (unbalanced)/phone	—
6301NE	Analog (electronic type balanced)/XLR Analog (unbalanced)/phone	—
6301NB	Analog (unbalanced)/phone	—

■ Accessories

- Power cord × 1
- Owner's manual (this manual) × 1

Part names and functions

■ Front (same for 6301ND/NX/NE/NB)

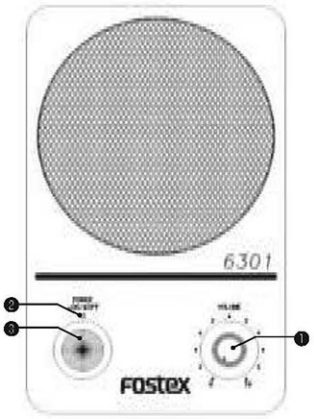
❶ **[VOLUME]**
Adjusts the volume.

❷ **[POWER] indicator**
Lights to indicate the state of the unit.

❸ **[ON/OFF] button**
Turns the unit on/off.

Note

- Use a standard AC outlet.
- Disconnect the plug from the outlet when the unit will not be used for a long time.



■ Back

❹ **[DIGITAL IN] terminal**
AES/EBU-compliant digital input terminal.

❺ **[DIGITAL THRU] terminal**
Directly outputs the signal from the [DIGITAL IN] terminal.

❻ **Analog input terminal (phone)**
φ6.3 mm (1/4") TS phone unbalanced analog input terminal.
Inputs connected to the analog input terminal ❻ are prioritized over inputs to other terminals.
6301ND: [ANALOG IN]
6301NX/NE: [INPUT UNBALANCED]
6301NB: [INPUT]

6301ND



❼ [INPUT SEL] switch
Used to select the type of analog signal that the digital signal is transformed into.
Choose between left and right (R+L), left only (L), and right only (R).

❽ [AC IN] terminal
Used to connect to a power outlet using the supplied power cord.

❾ [INPUT BALANCED] terminal
XLR balanced analog input terminal.
6301NX uses a transformer type balanced system, and 6301NE uses an electronic type balanced system.

6301NX/NE



(The unit pictured above is 6301NX.)

6301NB



The [POWER] indicator

- 6301ND
  Unlit: The power is off
  Lit in green: A device is connected to the [DIGITAL IN] terminal and the digital signal is locked
  Lit in orange: A plug is inserted in the analog input terminal (phone)
  Lit in red: In standby

Note

- When a plug is inserted in the analog input terminal (phone), the indicator lights in orange whether anything is connected to the [DIGITAL IN] terminal or not.

- 6301NX/NE/NB
  Unlit: The power is off
  Lit in green: The power is on
  Lit in red: In standby

The auto standby function

When input to the unit continues below a certain level for approximately 25 minutes, the auto standby function is activated, and power consumption is reduced to 0.5 W or below. If input then exceeds a certain level, the unit reverts to its normal state. The auto standby function may not function normally depending on the noise level of devices connected to the input terminals on the unit.

Note

- When a device is only connected to the [DIGITAL IN] terminal, the unit goes into standby unless the digital signal is locked.
- Even if the digital signal is locked, the unit goes into standby when input continues below a certain level for about 25 minutes.

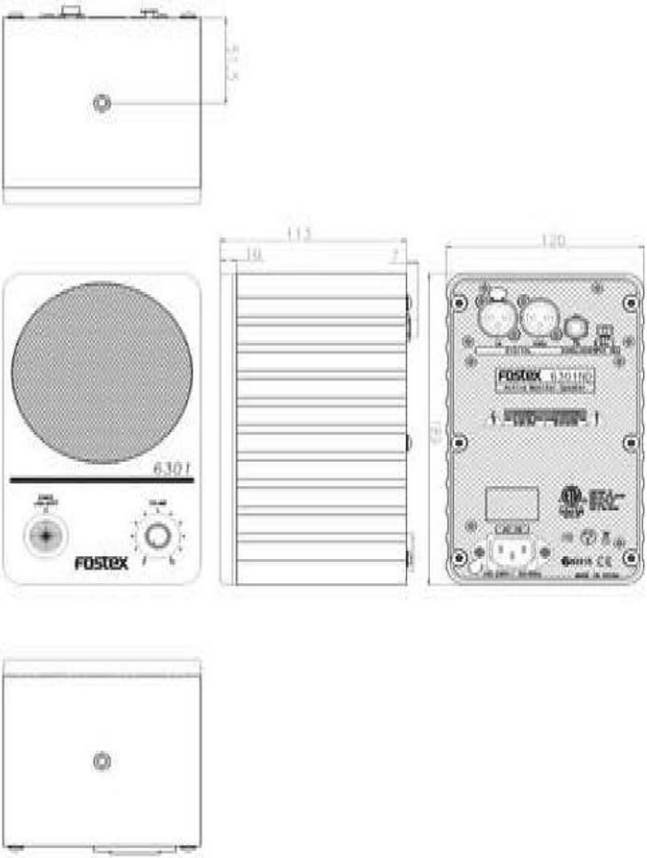
Troubleshooting

Problem	Solutions
There is no sound.	• Check the connection. (⇨ page 4, page 5, page 6) • Check the set volume of each device.

Specifications

	6301ND	6301NX	6301NE	6301NB
Type	Sealed powered speaker system			
Speaker	100 mm cone-shaped, full-range speaker × 1			
Frequency band	70 Hz to 15 kHz			
Output sound pressure level	85 dB/W (1 m)			
Maximum output sound pressure level	98 dB			
Rated output	20 W			
T. H. D.	0.05% (at 1 kHz 1 W output)			
Input terminal	Analog unbalanced/φ6.3 mm (1/4") TS phone			
	Digital XLR-3-31 type IEC60958 (AES/EBU) sampling frequency 44.1 kHz to 96 kHz	Analog balanced XLR-3-31 type HOT No. 2/ transformer type	Analog balanced XLR-3-31 type HOT No. 2/ electronic type	—
Output terminal (THRU)	Digital XLR-3-32 type	—		
Input impedance	Analog input (balanced/unbalanced) 10 kΩ or more			
Input sensitivity	Analog (unbalanced): -14 dBV (0.2 Vrms) Digital: -12 dBFS	Analog (unbalanced): -14 dBV (0.2 Vrms) Analog (balanced): +4 dBu (1.2 Vrms)		Analog (unbalanced): -14 dBV (0.2 Vrms)
Residual noise	–65 dBV	–70 dBV		
Enclosure material	Aluminum die-casting			
Power consumption	10 W			
External dimensions (mm)	120 (W) × 189 (H) × 120 (D)			
Weight	Approx. 2.3 kg			
Length of the power cord	Approx. 2 m			

Dimensional drawings



(6301ND is pictured above, but the external dimensions are the same for each model.)

Optional accessory

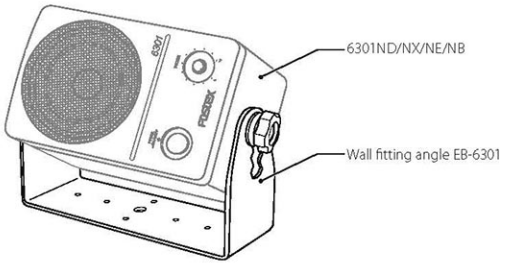
By attaching a wall fitting angle (sold separately) to the unit, you can adjust the angle of the unit and fix the unit to walls.

Wall fitting angle EB-6301

⚠ CAUTION

Ask a professional to fix the unit to a wall using the bracket.
Fostex is not responsible for accidents and casualties caused by using the bracket.

When you attach the unit to the bracket, attach it firmly using the screws supplied with EB-6301. Otherwise the unit may fall and cause accidents leading to injuries and damage.

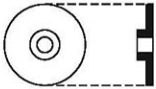


Specifications

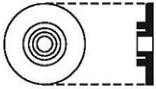
External dimensions (mm)	200 (W) × 75 (H) × 148 (D)
Weight	850 g

■ Accessories of EB-6301

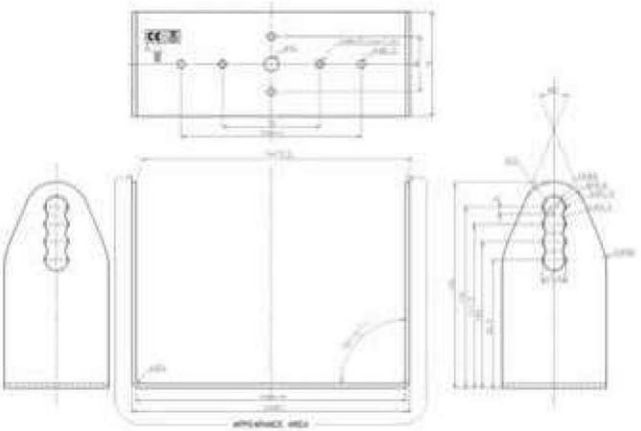
- Mounting screw × 2
- Rubber washer (with no grooves) × 2



- Rubber washer (with grooves) × 2

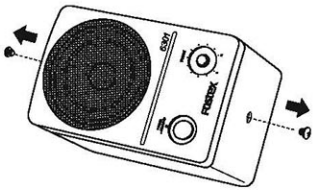


■ Dimensional drawings of EB-6301

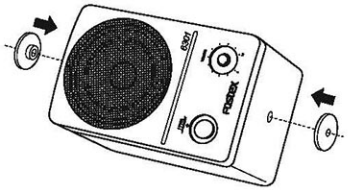


■ Attaching EB-6301

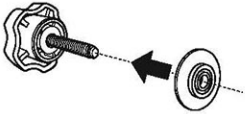
1 **Remove the screws on the top and bottom of the 6301N series.**



2 **Attach the rubber washers (with no grooves) to the top and bottom of the unit.**



3 **Fit the rubber washers (with grooves) onto the mounting screws.**



4 **Adjust the unit to your preferred position in the bracket, then attach and tighten the mounting screws prepared in step 3.**

