
Active Loudspeaker System User's Guide

Your new Active Loudspeaker System will add high-quality audio playback capabilities to your workstation. This user's guide explains how to set up and use your speakers in the following sections:

- "Installing the Speakers" on page 2
- "Operating the Speakers" on page 4
- "Technical Specifications" on page 6

Note: For safety and regulatory information, see the user's manual that came with your workstation.

Installing the Speakers

This section explains how to set up your speakers. See Figure 1 while you follow these steps.

1. Before you begin, ensure that you received all of the following components with you shipment:
 - 1 right speaker with I/O panel and control knobs
 - 1 left speaker with captive input cable
 - 1 10-ft. stereo input cable with 3.5-mm jack on each end
 - 1 power supply transformer module with captive output cord
 - 1 AC line cord with geography-specific plug

If any of these components are missing, contact your sales representative.

2. Place the right speaker on the right side of your monitor; place the left speaker on the left side.
3. Connect the left speaker input cable to the jack labeled **Left Speaker** on the rear of the right speaker.
4. Connect one end of the 10-ft. stereo input cable to the jack labeled **Input Signal** on the rear of the right speaker; connect the other end of the cable to the audio output jack on your workstation.

Note: Some workstations use an adapter to connect the speakers to a USB port. If your workstation does not have a 3.5-mm audio output jack, you need to install the USB digital audio converter. Refer to the documentation that ships with the converter for more information.

5. Ensure that the knob labeled **Off/On** on the front of the right speaker is turned all the way to the left. Then, connect the DC power input cord to the jack labeled **18.5 VDC** on the rear of the right speaker.
6. Connect the AC line cord to the power supply transformer module. Then plug the AC line cord into an approved electrical outlet. A illuminated green LED on the power supply transformer module indicates that power is present.
7. Ensure that the cables and cords are not stretched or pinched in their installed positions.

This completes the installation of your speakers. For operating instructions, proceed to the next section.

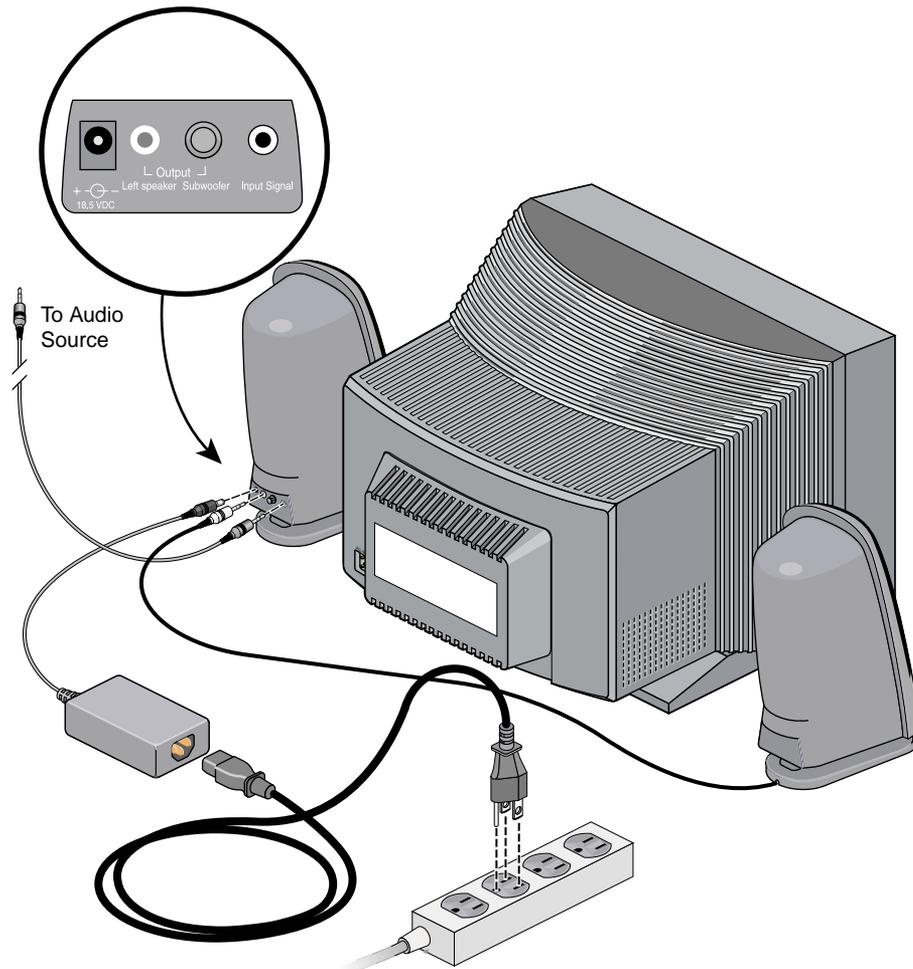


Figure 1 Installing the Speakers

Operating the Speakers

This section contains rules and instructions for operating your speakers.

Operating Rules and Precautions

When operating your speakers, follow these rules:

- To prevent risk of electrical shock, do not open the speaker housings or power supply transformer module.
- Do not expose the speakers or power supply to water or other liquids.
- Always disconnect the power cable from the speakers before adjusting any other cables.
- To prevent data loss, keep floppy disks and tapes at least four inches away from the speakers.
- Fluorescent and neon light fixtures can cause interference. Move the speakers away from these fixtures to eliminate interference.
- Do not use solvents to clean the speakers; wipe them with a damp soft cloth.
- Do not expose the speakers to direct sunlight, excessive dust, or harsh vibration.
- Use only the AC power adapter that came with your speakers. Using another power supply can damage them.

Powering On and Off

Find the knob labeled **Off/On** on the front of the right speaker. To turn on the speakers, turn this knob to the right; to turn them off, turn the knob to the left until it clicks. If the speakers are on, a green LED on the right speaker will illuminate.

Adjusting Volume

Find the knob labeled **Off/On** on the front of the right speaker. Turn this knob to the left to decrease volume; turn the knob to the right to increase volume.

Adjusting Tone

Find the knobs labeled **Bass** and **Treble**. Turn either knob to the left to decrease the bass or treble response; turn either knob to the right to increase the bass or treble response.

Connecting Peripherals

The right speaker has two additional output jacks that can accommodate a pair of headphones and a sub woofer. The headphone jack is located on the front of the right speaker, to the left of the knobs. The subwoofer jack is located on the rear of the right speaker, next to the left speaker output jack. These jacks are covered with small rubber plugs to prevent interference. When these jacks are not in use, keep the covers in place.

Testing the Speakers

To test your speakers, follow these steps:

1. Power on your workstation and log in.
2. Enter the following command to produce an audio signal:

```
sfplay /usr/share/data/sounds/soundscheme/soundfiles/*
```

Turn the volume knob on the right speaker clockwise until you hear the sounds. Then adjust the volume and tone controls on your speakers to the desired levels. If you do not hear anything, check the following:

- Is your workstation producing an audio signal? Check the console output for error messages.
- Are the speakers powered on and is the volume set to an audible level? An illuminated green LED on the right speaker indicates that power is present.
- Are all cables connected as shown in Figure 1?

If all of these criteria are met and your speakers still do not produce any sound, turn them off and contact your service representative.

Technical Specifications

The following tables provide technical specifications for the speaker system.

Table 1 Component Dimensions

Component	Dimensions
Speaker housing	Height: 253.63 mm (9.99 in.) Width: 106.45 mm (4.19 in.) Depth: 165.1 mm (6.50 in.)
Power supply transformer module	Length: 114.3 mm (4.50 in.) Width: 57.15 mm (2.25 in.) Height: 28.58 mm (1.13 in.)
AC line cord	Length: 1.83 meters (6 ft.)
DC power input cord	Length: 1.22 meters (4 ft.)
Stereo input cable	Length: 3 meters (10 ft.)
Left speaker input cable	Length: 1.83 meters (6 ft.)

Table 2 Environmental Specifications

Variable	Operating Tolerance	Non-operating Tolerance
Temperature	0 °C to 40 °C	-10 °C to 65 °C
Relative humidity	10% to 80%, non-condensing	5% to 95%, non-condensing
Altitude	10,000 ft.	40,000 ft.

Table 3 Performance Specifications

Specification	Value
Output power	6W RMS per channel
Input sensitivity	1.5 vrms @ Rs 25 ohms
Frequency range	180 Hz - 20 kHz
Amplifier distortion	1% THD maximum
Transducers	3-in. full range driver 2-in. tweeter
Maximum acoustic output	> 90 dB @ 1 kHz, 1m, both speakers driven
Input impedance	150 ohms

Table 4 Power Specifications

Specification	Value
Polarity	
Power output	18.5 Vdc @ 1.5A
Maximum power consumption	28W (VA)
Power input	North America: 110V Europe: 220V-240V Japan: 100V United Kingdom: 240V
Magnetic flux leakage	<50 mGauss @ 2 cm

