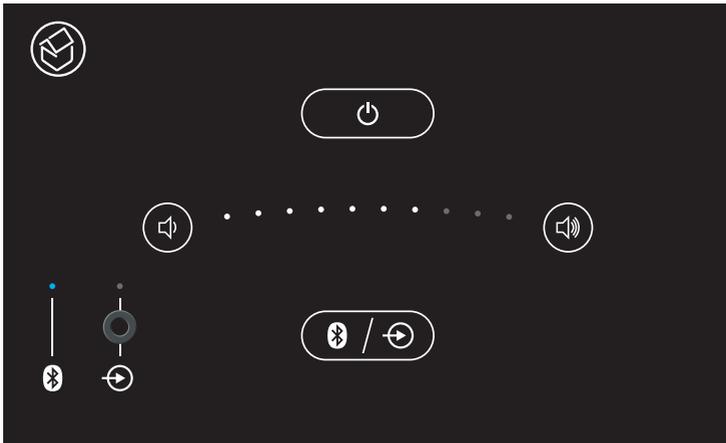


E50 User Guide

*Built-in **Bluetooth**® Hi-Fi amplifier / touch panel*



Important Safety Instructions



CAUTION: To reduce the risk of electric shock, do not remove the cover. No user-serviceable parts inside. Refer to qualified personnel.

WARNING: To reduce the risk of fire or electric shock, do not expose this appliance to rain or moisture.



The lightning flash with arrowhead within an equilateral triangle is intended to alert the user to the presence of an uninsulated "dangerous voltage" within the product's enclosure, that may be of sufficient magnitude to constitute a risk of electrical shock to persons.



The exclamation mark within an equilateral triangle is intended to alert the user to the presence of important operating maintenance (servicing) instructions in the guide accompanying this device.

Read Instructions: All the safety and operating instructions should be read before the unit is operated.

Retain Instructions: The safety and operating instructions should be retained for future reference.

Heed Warnings: All warnings on the unit and in the operating instructions should be followed.

Follow Instructions: All operating instructions should be followed.

Cleaning: Unplug the unit from the wall outlet before cleaning. The unit should be cleaned only with a lint free dry cloth.

Attachments: Only use attachments recommended by the manufacturer as non-recommended attachments may cause hazards.

Water and Moisture: Do not use the unit near water—for example, near a bath tub, wash bowl, kitchen sink, or laundry tub; in a wet basement; or near a swimming pool.

Accessories: Do not place the unit on an unstable surface, stand, tripod, bracket, or table. The unit may fall, causing serious injury to yourself or others, and serious damage to the unit.

Ventilation: Do not place in a location or position that will interfere with the unit's ventilation. Do not operate on a bed, sofa, rug, or other similar surface.

Power Sources: The unit should be operated only from the type of power source indicated on the marking label. If you are not sure of the type of power supplied to your home, consult your local power company.

Power-Cord Protection: Power-supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to cords where they enter a plug, or exit from the unit.

Lightning: For added protection for the unit during a lightning storm, or when it is left unattended and unused for long periods of time, unplug it from the wall outlet and disconnect from other devices. This will prevent damage to the unit due to lightning and power-line surges.

Overloading: Do not overload wall outlets, extension cords, or integral convenience receptacles as this can result in a risk of fire or electric shock.

Object and Liquid Entry: Never push objects of any kind into the unit through openings as they may touch dangerous voltage points or short-out parts that could result in a fire or electric shock. Never spill liquid of any kind on the unit.

Servicing: Do not attempt to service the unit yourself as opening or removing covers may expose you to dangerous voltage or other hazards. Refer all servicing to qualified service personnel.

Damage Requiring Service: Unplug the unit from the wall outlet and refer servicing to qualified personnel under the following conditions:

- When the power-supply cord or plug is damaged,
- If liquid has been spilled, or objects have fallen into the unit,
- If the unit has been exposed to rain or water,
- If the unit does not operate normally by following the operating instructions,
- If the unit has been dropped or damaged in any way,
- When the unit exhibits a distinct change in performance— this indicates a need for service.

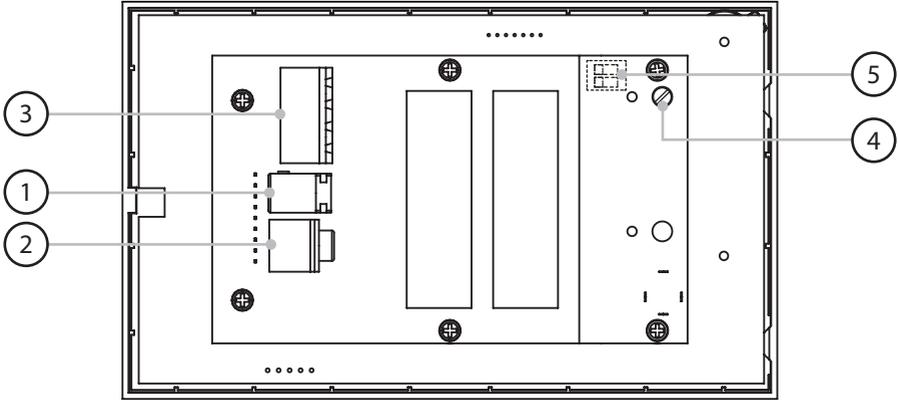
Replacement Parts: When replacement parts are required, be sure the service technician uses replacement parts specified by the manufacturer or which have the same characteristics as the original parts. Unauthorized substitutions may result in fire, electric shock, or other hazards.

Heat: The unit should be situated away from heat sources such as radiators, heat registers, stoves, or other units (including amplifiers) that produce heat.



This product complies with the European Low Voltage (2014/35/EU) and Electromagnetic compatibility (89/336/EEC) Directives when used and installed according to the instruction manual.

Connections and Controls



E50 Rear View

Rear panel connections

1. Power input



Use ONLY the power supply provided. Failure to do so may cause irreparable damage to the unit.

DO NOT alter the length of the supplied DC extension cable

2. Analogue audio – line in

Connect an analogue audio input here using a stereo 3.5mm jack cable such as QED Performance J2J. A green LED means this input is active.

3. Speaker outputs

Use the green terminal blocks provided to attach left and right stereo speakers.

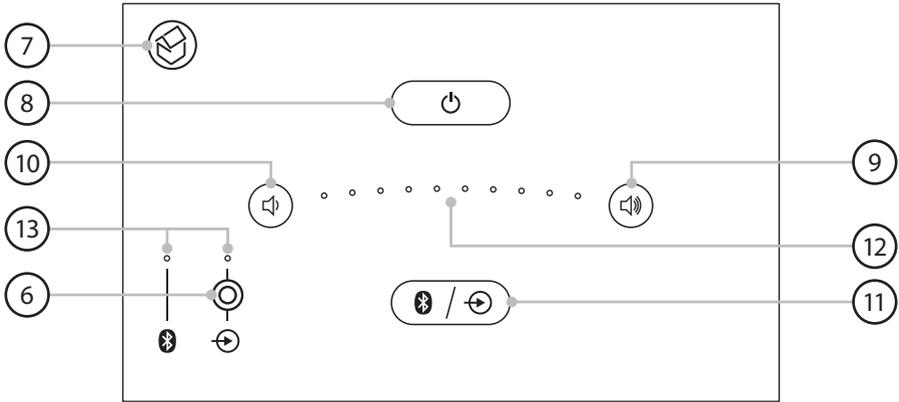
Rear panel installer controls

4. Max volume adjustment

See installer adjustments for details (page 10).

5. Stereo/Mono & EQ DIP switches

See installer adjustments for details (page 10).



E50 Front View

Front panel connections

6. Analogue audio - line in

Connect an analogue audio input here using a stereo 3.5mm jack cable such as QED Performance J2J. A green LED means this input is active.

Front panel controls

7. Standby indicator

Illuminates red to indicate the unit has entered standby.

8. Standby/on key

Touch here to toggle the unit on or off.

9. Volume up key

Touch here to increase the volume.

10. Volume down key

Touch here to decrease the volume.

11. Source key

Touch here to toggle between *Bluetooth* and line-in sources.

12. Volume position array

Provides a visual indication of current volume setting. A single pulsing LED means mute. Auto dims after 10s. Touch here to toggle play/pause when in *Bluetooth* mode.

13. Indicator LEDs

Blue = *Bluetooth*, Green = Analogue In

Operating Instructions

Pairing/connecting a *Bluetooth* music source

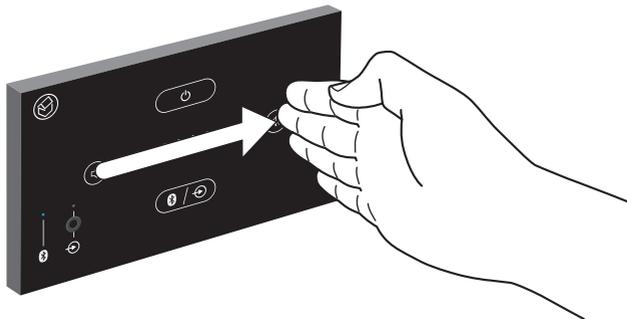
1. The E50 is always in pairing mode. Navigate to the *Bluetooth* devices list on your phone or other *Bluetooth* transmitter device. Select *Systemline E50(_n)* from the device list. If the phone has not previously been paired a *Bluetooth pairing request* will be displayed on the phone. On the E50 the blue LED will flash.
2. Press and hold the *source* key on the E50 until the blue LED stops flashing.
3. Press *pair* on the phone. The unit will now pair and connect. The E50 will wake up, the blue LED will be illuminated and the default volume level will be displayed.
4. If the phone has previously been paired it will connect straight away, without the need for steps 2 and 3.

Listening to a *Bluetooth* music source

1. If not already done, pair or connect with the *Bluetooth* device (see above).
2. Navigate to the media player on your phone or other *Bluetooth* transmitter device and press *play*. The *Bluetooth* source will be selected and music will play through the E50.
3. Check that the blue source LED is illuminated, if not press the *source* key on the E50. The LED will turn from green to blue and the default volume level will be displayed.

To skip track forwards in *Bluetooth* mode

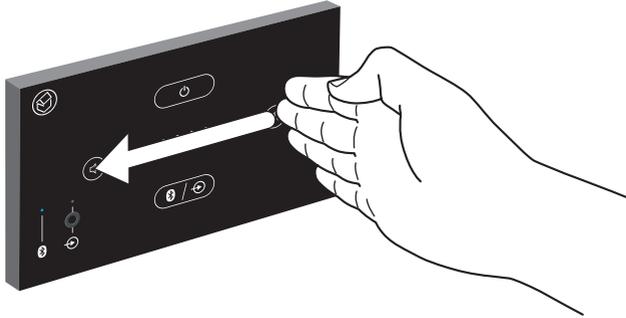
1. Use your four outstretched finger tips to flick from left of the *volume down* key to right of the *volume up* key in a single consistent sweeping motion from left to right at a distance of up to 70mm from the front panel. Do not actually touch the front panel. The track will skip forward.



Skip track forwards using hand gesture

To skip track back in *Bluetooth* mode

1. Use your four outstretched finger tips to flick from right of the *volume up* key to left of the *volume down* key in a single consistent sweeping motion from right to left at a distance of up to 70mm from the front panel. Do not actually touch the front panel. The track will skip back.



Skip track back using hand gesture

To pause/play in *Bluetooth* mode

1. Touch the centre of the touch panel where the volume LEDs are positioned to pause playback while in *Bluetooth* mode.
2. Touch the centre of the touch panel again to resume playback.

Listening to an analogue music source

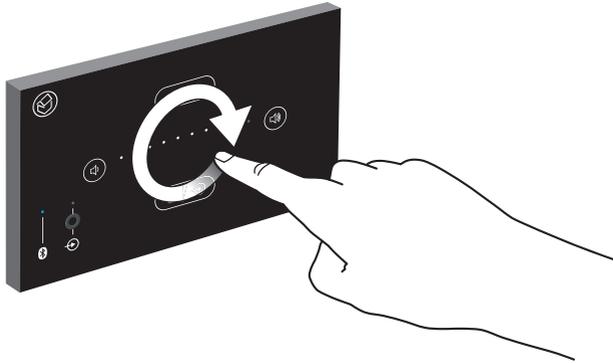
1. Make sure that a compatible analogue music source is connected to either the front or rear input jack (not both) using a 3.5mm stereo audio jack cable.

Do not connect audio sources to the front and rear line inputs at the same time.

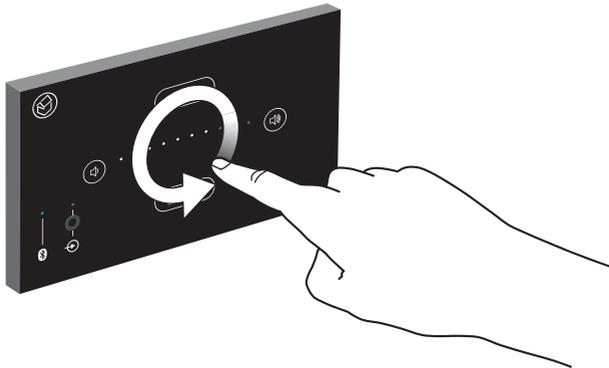
2. Check that the green *source* LED is illuminated. If not, press the *source* key. The green LED will be illuminated and the default turn on volume level will be indicated.

To adjust the volume

1. Touch the *volume up* key to increase the level of the music, and touch the *volume down* key to reduce it.
2. The same functionality can be achieved using a convenient gesture control.
3. Use your index finger to describe a circular pattern within the confines of the four touch key symbols at a distance of up to 70mm from the front panel. Do not actually touch the front panel. A clockwise rotation will increase the volume level and an anti-clockwise rotation will decrease the volume level.



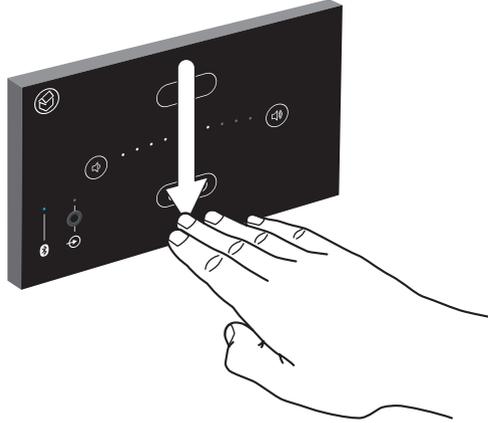
Increase volume using hand gesture



Decrease volume using hand gesture

To mute the volume

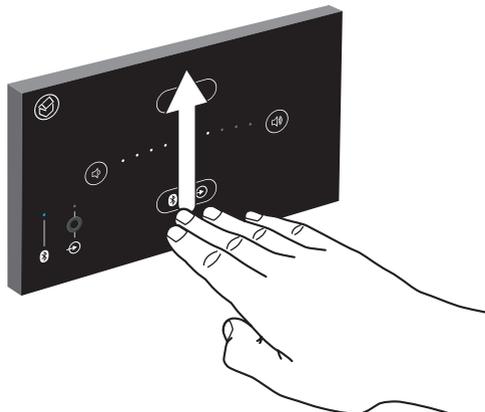
1. Use your four outstretched finger tips to flick from above the *standby* key to below the *source* key in a single consistent sweeping motion from top to bottom at a distance of up to 70mm from the front panel. Do not actually touch the front panel.
2. The music will mute and the white volume LED will gently pulse. In *Bluetooth* mode the music will also be paused.



Mute using hand gesture

To unmute the volume

1. Use your four outstretched finger tips to flick from below the *source* key to above the *standby* key in a single consistent sweeping motion from bottom to top at a distance of up to 70mm from the front panel. Do not actually touch the front panel.
2. The music will unmute and the volume display will return to the previous setting. In *Bluetooth* mode the music will also be unpaused.



Unmute using hand gesture

To put the E50 into standby

1. Press the *standby* key. The E50 will turn off and the red LED will illuminate. In this mode the amplifier is turned off and the *Bluetooth* connection is dropped. The E50 is still in *Bluetooth pairing mode* and will wake instantly when the *standby* key is pressed or when paired.

To put the E50 into deep standby

1. Press and hold the *standby* key until the red LED is extinguished. In this mode the amplifier and the *Bluetooth* pairing are turned off and the unit will consume only 0.5W of power.
2. When the *standby* key is pressed the unit will reboot to standby mode as above.

Installer Adjustments

Maximum volume setting

To restrict the maximum volume to a level anywhere from min to max, adjust the preset screw (labelled below) with a small flat blade screw driver until the desired level is indicated on the front panel. This adjustment must be made with the unit powered up in order to see the indication.

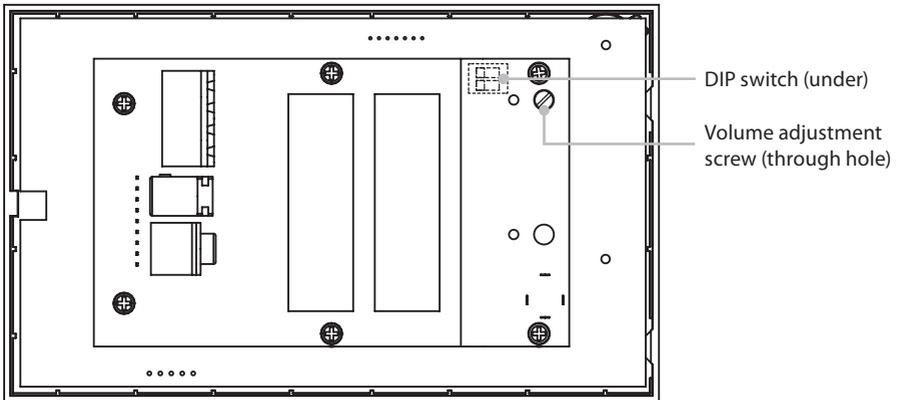
Mono/Stereo setting

To set the amplifier output to *mono*, use a ball point pen or small screw driver to move the DIP switch #1 (labelled below) to the *OFF* position. The default position for this switch is *ON* (*stereo*).

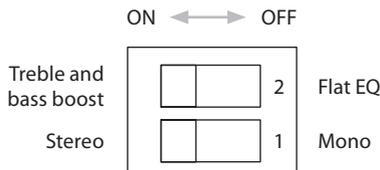
EQ adjustment

To adjust the EQ to a flat response, use a ball point pen or small screw driver to move the DIP switch #2 to the *OFF* position. The default position for this switch is *ON* (*treble and bass boost for Qi 65CB speakers*).

Rear panel controls for installer adjustments



DIP switch detailed view



Changing the *Bluetooth* name

The E50 is shipped with the default *Bluetooth* name “*Systemline E50*”. Where more than one E50 can be seen from the same *Bluetooth* source device each E50 can be renamed in order to distinguish one from another.

1. Make sure that the E50 is in standby mode. Press and hold the *standby* and *source* keys at the same time until the white and green LEDs are illuminated.

DO NOT PRESS ANY BUTTONS. WAIT 2 SECONDS.

2. Press the *source* key until the blue LED is illuminated.
3. Set a *Bluetooth* name between 1 and 10 by using the volume up and down keys to illuminate the corresponding number of LEDs.
4. Press the *standby* key once to set the new *Bluetooth* name.

The E50 will reboot with a new *Bluetooth* name of the form “*Systemline E50_n*” where n = number of LEDs illuminated in step 3.

To disable gesture control

The E50 is shipped with gesture control enabled. In some installations gesture control may not be required. In order to enable/disable gesture control:

1. Make sure that the E50 is in standby mode. Press and hold the *standby* and *source* keys at the same time until the white and green LEDs are illuminated.

DO NOT PRESS ANY BUTTONS. WAIT 2 SECONDS.

2. To disable gestures press the *volume down* key to extinguish all the white LEDs.
3. To enable gestures press the *volume up* key to light all the white LEDs.
4. Press the *standby* key to save the current setting.

Troubleshooting

There is no sound

Check that the correct input is selected using the source key.

There is no sound when using the Bluetooth input

Check that the *Bluetooth* device is correctly paired (blue LED).

Make sure the *Bluetooth* source is playing.

There is no sound when using the analogue input

Check that the analogue source device is correctly connected (front or rear jack).

Check that the analogue source is playing and that any volume on the device is set to maximum.

Check that the *Bluetooth* device is not connected (green LED).

Technical Specification

Power Supply	19V 2500mA DC
Frequency Response	10Hz – 20kHz \pm 1dB
Signal to Noise Ratio	> 80dB
Cross-talk @ 1kHz	better than 60 dB
Total Harmonic Distortion	
@1kHz Bluetooth input	0.1%
@1kHz Line input	0.2%
Maximum output level	
Speakers	18W/ch continuous
Sensitivity	
Analogue	550mV rms Line in
Digital	0dBFS
Dimensions (W x H x D)	150 x 90 x 47mm
Weight	830g

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