



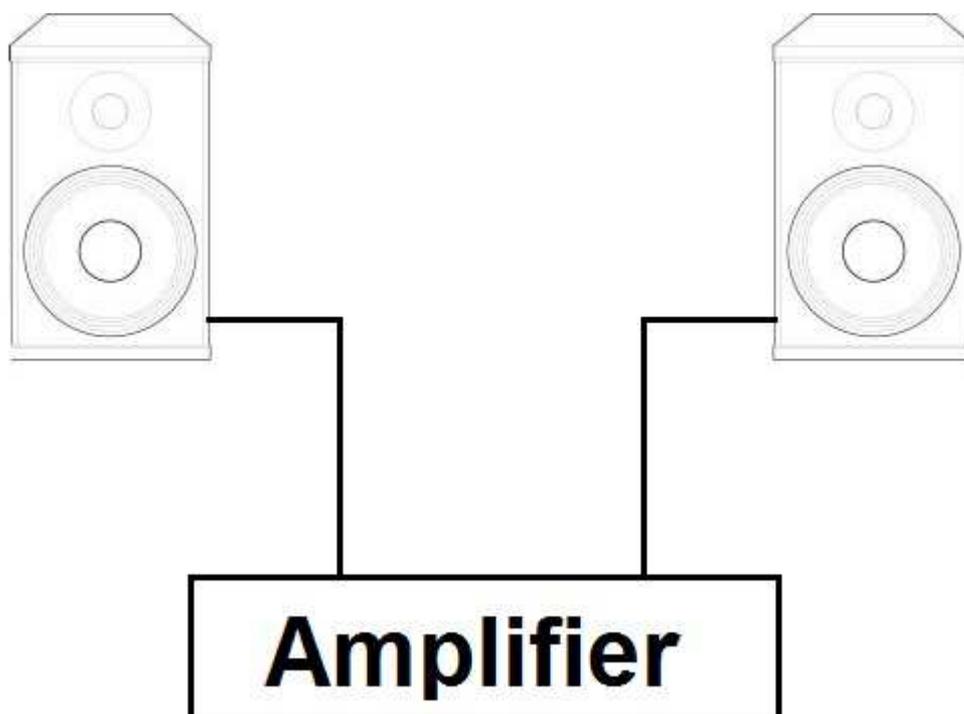
**100.015 – 100.016**

**75 Watts Passive 2-way  
Speakerset**



**INSTRUCTION MANUAL  
HANDLEIDING  
MODE D'EMPLOI  
BEDIENUNGSANLEITUNG  
MANUAL DE INSTRUCCIONES**

**Basis aansluiting / Basic connections / Connexions de base / Grundanschlüsse / Conexiones básicas:**



**SPECIFICATION:**

Model	100.015 & 100.016
Power Max.	2x 75W
Impedance	8 Ohm
Freq. Range	70Hz - 20kHz
SPL @ 1W/1m	89dB

Congratulations to the purchase of our SkyTec speaker box.  
Read the instructions thoroughly prior to using the unit.

## **SAFETY INSTRUCTIONS**

- Hearing damage:  
SkyTec loudspeakers are easily generating high sound pressure levels (SPL) sufficient to cause permanent hearing damage to performers, production crew and audience members. Care should be taken to avoid prolonged exposure to SPL in excess of 85 dB.
- Make sure that the amplifier is switched off when the speaker box is connected or disconnected.
- The box must be installed by a qualified technician who has knowledge of the techniques.
- Do not overload the box to avoid damage to the speakers.
- Connect the box only to a good quality amplifier:  
Direct voltage at the amplifier output will damage the speakers  
“Clipping” (overdrive) of the amplifier can damage the woofer, tweeter and horn speaker
- Do not overload the speakers to avoid damage to the components.
- Do not place an open fire (candle, etc.) on top or next to the box - FIRE HAZARD
- For indoor use only. If the box is used outdoors, you need to make sure that no humidity can enter the box.
- Make sure that the box is placed on a stable, solid surface.
- The boxes can be stacked but do not put more than 60kg weight on the box.
- The boxes can be hung. Use only strong and approved mounting material. The installation should only be carried out by a qualified

technician who has knowledge of the techniques and regulations regarding the mounting/hanging of speaker boxes. During the mounting, make sure that nobody is standing below the mounting area.

- Use only stands which are designed to support the weight of the speaker. Do not attempt to place more than one speaker on a stand designed for a single speaker.
- Do not place liquids on the box and protect it against humidity. Humidity can shorten the life time considerably.
- If the unit is damaged to an extent that internal parts are visible, DO NOT connect the unit and DO NOT switch it on. Contact your dealer or Tronios.
- Never try to repair the unit yourself. It does not contain any user serviceable parts. All repairs must be carried out by a qualified technician.
- Set the amplifier to the lowest volume prior to switching it on.
- Keep the unit out of the reach of children.

Protect your environment. Recycle packing material whenever possible.

Do not throw a faulty unit into normal household waste but bring it to a special collection point. A large part of it can be recycled.



## **CONNECTIONS:**

First of all, check the specifications of the amplifier if it is suitable for your speaker boxes. Pay particular attention to the power rating and impedance.

Check if the amplifier is switched off. If yes, you can connect the speakers. PLEASE NOTE! Watch the polarity (+/-). Wires of the same colour must be connected to the same sign of every side i.e. the + of the amplifier must be connected to the + of the speaker box. If the connections are inverted, the sound quality will diminish. Only use high quality speaker cables that are suitable for the power and distance between the amplifier and the speaker.

### **Connection of several speakers:**

When a second speaker is connected in parallel the impedance will change from 8 Ohms to 4 Ohms. Check if the amplifier can handle this. If more than two speakers are connected in parallel, the impedance will go below 4 Ohms. Most of the amplifiers can't handle this!

*Do not attempt to make any repairs yourself. This would invalid your warranty. Do not make any changes to the unit. This would also invalid your warranty. The warranty is not applicable in case of accidents or damages caused by inappropriate use or disrespect of the warnings contained in this manual. Tronios cannot be held responsible for personal injuries caused by a disrespect of the safety recommendations and warnings. This is also applicable to all damages in whatever form.*

Hartelijk dank voor de aanschaf van onze SkyTec luidspreker.  
Lees deze gebruiksaanwijzing aandachtig door alvorens het apparaat in bedrijf te stellen.

## **VEILIGHEIDSVORSCHRIFTEN:**

- Gehoor beschadiging:  
SkyTec luidsprekers kunnen gemakkelijk een zeer hoge geluidsdruk weergeven (SPL) welke een gehoorbeschadiging kunnen toebrengen bij gebruikers, productie crew en publiek. Zorg voor gehoorbescherming als men blootgesteld wordt aan een geluidsniveau van 85dB of meer.
- Zorg ervoor dat de versterker uit staat als de luidspreker aangesloten of losgekoppeld wordt.
- De luidspreker dient geïnstalleerd te worden door een erkende technici of deskundige personen die kennis hebben van de technieken.
- Overbelast de luidspreker niet – om schade aan de componenten te voorkomen.
- Sluit de luidspreker alleen aan op een versterker van goede kwaliteit:  
Gelijkspanning op de uitgang van een versterker zal de luidsprekers laten doorbranden  
Door “clippen” (oversturen) van de versterker kan de woofer, tweeter of hoorn stuk gaan
- Overbelast de luidspreker nooit – om schade aan de luidsprekers te voorkomen.
- Plaats geen open vlam (kaars, sfeerlamp) op of direct naast de luidspreker – **BRANDGEVAAR**
- De luidspreker is ontworpen voor gebruik binnenshuis – voor gebruik buitenshuis dienen maatregelen worden genomen om het binnendringen van vocht te voorkomen.
- Zorg er altijd voor dat de luidspreker stevig en stabiel geplaatst wordt.
- Luidsprekers kunnen gestapeld worden, maar plaats nooit meer dan max 60kg op een luidspreker.
- De luidspreker kan opgehangen worden, gebruik alleen deugdelijk en goedgekeurd

bevestigingsmaterialen. De installatie mag enkel uitgevoerd worden door deskundige personen die kennis hebben van de technieken en regelgeving aangaande het ophangen/plaatsen van luidsprekers. Tijdens de montage mag zich niemand onder de montageplaats bevinden.

- Gebruik alleen luidsprekerstandaards welke geschikt zijn voor het gewicht van de luidspreker en plaats niet meer luidsprekers op een standaard dan waarvoor deze ontworpen is.
- Zet geen vloeistoffen op de luidspreker en bescherm de luidspreker tegen binnendringend vocht. Vocht kan de levensduur aanzienlijk bekorten.
- Indien het apparaat dermate beschadigd is dat inwendige (onder)delen zichtbaar zijn mag deze **NOOIT** aangesloten worden en **NOOIT** worden gebruikt. Neem in dit geval contact op met uw leverancier of Tronios.
- Laat reparaties over aan een erkende reparateur – er bevinden zich geen door de gebruiker te vervangen onderdelen binnen in de behuizing.
- Schakel een versterker altijd in op het laagste volume niveau.
- Het apparaat buiten bereik van kinderen houden.

Milieubescherming, recycle verpakkingsmateriaal daar waar mogelijk.



Gooi een defect apparaat nooit bij het huisafval, maar lever deze in bij een inzamelingsplaats of een gemeentelijk depot. Een groot deel kan gerecycled worden.

## **AANSLUITING:**

Controleer eerst de specificaties van de versterker of deze geschikt is voor de luidsprekers. Let hierbij vooral op het vermogen en de impedantie.

Controleer of de versterker uit staat en sluit de luidsprekers aan. **LET OP!** Polariteit (+/-), sluit de geleider met dezelfde kleur aan beide zijden gelijk aan. Dus versterker + = luidspreker +. Indien de geleiders niet juist aangesloten zijn geeft dit verlies van geluidskwaliteit.

Gebruik alleen luidsprekerkabel van goede kwaliteit en geschikt voor het vermogen en afstand tussen versterker en luidspreker.

### **Meerdere luidsprekers aansluiten:**

Wanneer een tweede luidsprekers parallel aangesloten worden, zal de impedantie van 8 Ohm naar 4 Ohm gaan. Controleer of de versterker hiervoor geschikt is. Indien meer dan twee luidsprekers parallel geschakeld worden zal de impedantie onder de 4 Ohm uitkomen. Meeste versterkers zijn hiervoor niet geschikt!

*Voer zelf geen reparaties uit aan het apparaat; in elk geval vervalt de totale garantie. Ook mag het apparaat niet eigenmachtig worden gemodificeerd, ook in dit geval vervalt de totale garantie. Ook vervalt de garantie bij ongevallen en beschadigingen in elke vorm t.g.v. onoordeelkundig gebruik en het niet in acht nemen van de waarschuwingen in het algemeen en gestelde in deze gebruiksaanwijzing. Tevens aanvaardt Tronios geen enkele aansprakelijkheid in geval van persoonlijke ongelukken als gevolg van het niet naleven van veiligheidsinstructies en waarschuwingen. Dit geldt ook voor gevolgschade in welke vorm dan ook. Specificaties en ontwerp kunnen worden veranderd zonder dat er een mededeling over wordt gedaan.*

**Nous vous remercions pour l'achat de cette enceinte SkyTec.**  
**Lire attentivement le mode d'emploi avant la première mise en service.**

## **CONSIGNES DE SECURITE:**

- Protection de l'ouïe:  
Les enceintes SkyTec peuvent générer une pression acoustique très forte qui risque d'endommager l'ouïe des utilisateurs, du personnel et du public. Veillez à ce que la pression sonore ne dépasse jamais 85dB.
- Veillez à ce que l'amplificateur soit éteint lorsque vous branchez ou débranchez les enceintes.
- L'enceinte doit être installée par un technicien qualifié.
- Ne pas surcharger les haut-parleurs afin de ne pas endommager les composants.
- Branchez l'enceinte uniquement sur un amplificateur de bonne qualité :  
Une tension continue à la sortie de l'amplificateur peut détruire les haut-parleurs. Le « clipping » (surcharge) de l'amplificateur peut détruire le boomer, le tweeter ou le pavillon.
- Ne pas surcharger l'enceinte afin de ne pas endommager les haut-parleurs.
- Ne pas placer une flamme ouverte (bougie, lampe à pétrole) à proximité de l'enceinte – RISQUE D'INCENDIE
- L'enceinte est conçue pour une utilisation à l'intérieur. Pour une utilisation à l'extérieur, vous devez prendre des mesures pour empêcher l'humidité de pénétrer dans l'enceinte.
- Placer l'enceinte sur une surface plane et stable.
- Vous pouvez empiler les enceintes jusqu'à une charge de 60kg.
- Vous pouvez suspendre les enceintes sur des supports homologués solides. L'installation doit être effectuée par un spécialiste qui connaît les

techniques et la réglementation concernant la suspension/le montage d'enceintes. Pendant l'installation, personne ne doit se trouver en dessous de la surface de montage.

- Utiliser uniquement un support adapté au poids de l'enceinte et ne pas placer davantage d'enceintes sur un support qu'il n'est autorisé.
- Ne pas poser de liquides sur l'enceinte. Protéger l'enceinte contre l'humidité qui réduit considérablement la durée de vie de l'enceinte.
- Déplacez l'enceinte uniquement à l'aide d'un moyen de transport adapté. **MENAGEZ VOTRE DOS !!**
- Si l'appareil est endommagé au point que des pièces internes sont visibles, **NE PAS** brancher l'appareil sur le secteur et **NE PAS** le mettre sous tension. Prenez contact avec votre revendeur ou Tronios.
- Toutes les réparations doivent être effectuées par un technicien qualifié. L'enceinte ne contient pas de pièces remplaçables par l'utilisateur.
- Baisser complètement le volume de l'amplificateur avant la mise sous tension.
- Tenir hors de la portée des enfants.



Protection de l'environnement : Recyclez les matériaux d'emballage chaque fois que c'est possible.



Ne pas jeter un appareil en fin de vie aux ordures ménagères mais amenez-le à un point de collecte. Une grande partie de ses composants est recyclable.

## **CONNEXIONS:**

Vérifiez tout d'abord les caractéristiques techniques de votre amplificateur afin de savoir s'il convient à votre enceinte, notamment en termes de puissance et d'impédance.

Vérifiez si l'amplificateur est éteint avant de brancher l'enceinte. ATTENTION ! Les polarités (+ et -) doivent correspondre. Connectez les fils de la même couleur sur le même signe de chaque côté donc, branchez le + de l'enceinte sur le + de l'amplificateur. Si les connexions sont inversées, la qualité du son en souffre.

Utilisez uniquement des câbles de haut-parleurs de bonne qualité qui conviennent à la puissance et à la distance entre l'amplificateur et l'enceinte.

### **Branchement de plusieurs haut-parleurs :**

Lorsqu'une deuxième enceinte est branchée en parallèle, l'impédance passe de 8Ω à 4Ω. Vérifiez si votre amplificateur accepte 4Ω. Si vous branchez plus de 2 enceintes en parallèle, l'impédance descendra en dessous de 4Ω. La plupart des amplificateurs ne le supportent pas.

***N'effectuez jamais de réparations vous-mêmes sous peine d'invalider la garantie. Ne pas modifier l'appareil. La garantie ne couvre pas les dommages survenus à la suite d'une mauvaise utilisation de l'appareil ou du non-respect des avertissements et consignes contenus dans ce manuel. Tronios décline toute responsabilité pour des accidents et blessures survenus à la suite du non-respect des consignes de sécurité et avertissements contenus dans ce manuel. Ceci s'applique également aux conséquences indirectes quel qu'elles soient.***

**Herzlichen Glückwunsch zum Kauf unserer SkyTec Box.  
Vor der ersten Inbetriebnahme bitte sorgfältig diese Anleitung durchlesen**

## **SICHERHEITSHINWEISE:**

- **Gehörschäden:**  
SkyTec Boxen können sehr hohe Schallpegel erreichen, die bei Publikum, Benutzern und technischem Personal schwere Gehörschäden verursachen können. Achten Sie darauf, dass der Schallpegel nie 85dB übersteigt.
- Der Verstärker muss ausgeschaltet sein, wenn die Box angeschlossen oder abgekoppelt wird.
- Die Box muss von einem Fachmann installiert werden, der mit der Technik vertraut ist.
- Die Lautsprecher nicht überlasten, um Schäden an den Bauteilen zu vermeiden.
- Die Box nur an einen Qualitätsverstärker anschließen:  
Gleichspannung am Verstärkerausgang kann die Lautsprecher durchbrennen lassen. Clipping (Übersteuerung) des Verstärkers kann den Tieftöner, den Hochtöner und den Hornlautsprecher beschädigen.
- Die Box nicht überbelasten, um Schäden an den Lautsprechern zu vermeiden.
- Kein offenes Feuer (Kerze, Petroleumlampe) auf oder neben die Box stellen - **FEUERGEFAHR**
- Die Boxen sind für Gebrauch in Innenräumen ausgelegt. Bei Benutzung im Freien müssen Maßnahmen getroffen werden, die ein Eindringen von Feuchtigkeit verhindern.
- Die Box nur auf eine ebene, stabile Fläche stellen.
- Die Boxen können gestapelt werden. Es dürfen jedoch nicht mehr als 60kg Gewicht auf die Box gestellt werden.
- Die Boxen können aufgehängt werden. Nur kräftige, geprüfte und zugelassene Haken verwenden. Die Montage muss von einem Fachmann durchgeführt werden, der mit der Technik und den Vorschriften bez. dem Aufhängen/Montieren von Boxen vertraut ist. Während der Montage darf sich niemand unter dem Arbeitsbereich aufhalten.
- Nur Stative benutzen, die für das Gewicht der Boxen ausgelegt sind und nicht mehr Boxen auf ein Stativ setzen, als für das Stativ zugelassen sind.
- Keine Flüssigkeiten auf die Box stellen und die Box gegen Eindringen von Feuchtigkeit schützen. Feuchtigkeit kann die Lebensdauer der Boxen stark verkürzen.
- Nur zweckdienliche Transportmittel benutzen – Schonen Sie Ihren Rücken!!
- Wenn das Gerät so stark beschädigt ist, das Innenteile sichtbar sind, NICHT das Gerät ans Netz anschließen und NICHT einschalten. Wenden Sie sich in dem Fall an Ihren Fachhändler oder Tronios.
- Reparaturen dürfen nur von Fachpersonal ausgeführt werden. Die Box enthält keine vom Benutzer auswechselbaren Teile.
- Vor Einschalten des Verstärkers erst die Lautstärkeregel ganz herunterfahren.
- Das Gerät außerhalb der Reichweite von Kindern aufstellen.

Umweltschutz: Verpackungsmaterial wann immer möglich recyceln



Entsorgung: Das Gerät darf nicht in den normalen Hausmüll. Bringen Sie es zu einer Sammelstelle, wo ein großer Teil des Geräts recycelt werden kann.

## **ANSCHLÜSSE:**

Prüfen Sie zuerst die technischen Daten Ihres Verstärkers, um sicherzugehen, dass er für die Box geeignet ist. Achten Sie dabei besonders auf die Leistung und die Impedanz.  
Prüfen Sie, dass der Verstärker ausgeschaltet ist und schließen Sie dann die Box an. **ACHTUNG!** Achten Sie auf die Polarität (+/-). Schließen Sie Leiter mit derselben Farbe an beiden Seiten gleich an, also + am Verstärker mit dem + an der Box. Bei falschem Anschluss wird die Klangqualität beeinträchtigt.  
Benutzen Sie nur Lautsprecherkabel von guter Qualität, die der Leistung und der Entfernung zwischen Verstärker und Box entsprechen.

### **Anschluss mehrerer Boxen**

Wenn eine zweite Box parallel angeschlossen wird, ändert sich die Impedanz von 8Ω auf 4Ω. Prüfen Sie, ob Ihr Verstärker mit 4 Ohm arbeiten kann. Wenn mehr als zwei Lautsprecher parallel geschaltet sind, sinkt die Impedanz unter 4Ω. Die meisten Verstärker sind dafür nicht geeignet.

**Keine eigenmächtigen Reparaturen oder Veränderungen am Gerät vornehmen, sonst verfällt jeglicher Garantieanspruch.  
Es besteht kein Anrecht auf Garantie bei Unfällen und Schäden, die durch unsachgemässen Gebrauch und Nichtbeachtung der Sicherheits- und Bedienhinweise in dieser Anleitung entstanden sind.  
SkyTec übernimmt keine Haftung für Sach- und Personenschäden, sowie Folgeschäden, die durch Nichtbeachtung der Warnungen und Sicherheitshinweise entstanden sind.**

Enhorabuena por la compra de nuestra caja acústica SkyTec.  
Lea atentamente las instrucciones antes de usar las cajas.

## **INSTRUCCIONES DE SEGURIDAD**

- Daños auditivos:  
Los altavoces SkyTec generan fácilmente niveles de presión acústica altos (SPL) suficientes para causar daños auditivos permanentes a los artistas, al equipo de producción y al auditorio en general. Debería evitarse la exposición prolongada a SPL superiores a 85 dB.
- Asegúrese de que el amplificador está apagado antes de conectar o desconectar la caja acústica.
- La caja debe instalarse por técnicos cualificados que tengan conocimientos técnicos.
- No sobrecargar la caja para evitar dañar los altavoces.
- Conecte la caja solo a un amplificador de buena calidad:  
La corriente continua de la salida del amplificador puede dañar los altavoces. El "Clipping" del amplificador puede dañar al woofer, el tweeter y la trompeta.
- No sobrecargue los altavoces para evitar dañar los componentes.
- No coloque material combustible (velas, etc.) encima de la caja - PELIGRO DE INCENDIO
- Solo para uso interior. Si la caja se usa en exteriores, debe asegurarse de que no entre humedad en la caja.
- Asegúrese de que la caja se coloca en una superficie estable y sólida.
- Las cajas pueden apilarse, pero no colocar más de 60kg encima.
- Las cajas pueden colgarse. Use solo material de montaje resistente y homologado. La instalación debe llevarse a cabo solo por técnicos cualificados que posean conocimientos técnicos y de montaje de cajas acústicas. Durante el montaje asegúrese de que nadie esté debajo del área de montaje.
- Solo utilice soportes que estén diseñados para aguantar el peso de los altavoces. No intente colocar más de un altavoz en un soporte diseñado para un solo altavoz.
- No coloque líquidos en la caja y protéjala de la humedad. La humedad puede acortar considerablemente el tiempo de vida.
- Solo utilice formas de transportar adecuadas si desea mover la caja – ¡¡VIGILE SU ESPALDA!!
- Si el aparato está dañado hasta el grado de que sus partes internas se hacen visibles, no enchufe el aparato. En este caso, por favor contacte con Tronios.
- Nunca intente reparar el aparato por usted mismo. No contiene ninguna parte reemplazable por el usuario. Todas las reparaciones deben llevarse a cabo por técnicos cualificados.
- Ajuste el volumen del amplificador al mínimo antes de encenderlo.
- Mantenga el aparato fuera del alcance de los niños.

Proteja el medio ambiente. Recicle el material de embalaje siempre que sea posible.



No tire el aparato estropeado a un contenedor normal de basura sino llévelo a un punto de recogida especial. La mayor parte de sus piezas pueden ser recicladas.

## **CONEXIONES:**

Antes de nada, compruebe las especificaciones del amplificador para ver si es adecuado para sus cajas acústicas. Preste especial atención al rango de potencia y a la impedancia.

Compruebe que el amplificador está apagado. Si lo está, puede encender los altavoces. ¡POR FAVOR ASEGURESE! Vigile la polaridad (+/-). Los cables del mismo color han de conectarse a la misma señal en cada extremo. Por ejemplo el + del amplificador debe conectarse al + de la caja acústica. Si se invierten las conexiones, la calidad del sonido disminuirá.

Utilice solo cales de altavoz de alta calidad adecuados para la potencia y la distancia entre el amplificador y el altavoz.

### **Conexión de varios altavoces:**

Cuando un segundo altavoz se conecta en paralelo, la impedancia cambia de 8 Ohms a 4 Ohms. Compruebe que el amplificador admite esto. Si más de dos altavoces se conectan en paralelo, la impedancia disminuirá por debajo de los 4 Ohms. ¡La mayoría de los amplificadores no lo admiten!

*No intente hacer reparaciones por usted mismo. Esto invalidaría la garantía. No intente hacer cambios en el aparato. Esto también invalidaría la garantía. La garantía no es aplicable en caso de accidentes o daños producidos por el uso inapropiado o por no respetar las advertencias contenidas en este manual. Tronios no se hace responsable por daños personales causados por no respetar por no respetar las recomendaciones y advertencias de seguridad. Esto también es aplicable a todos los daños de cualquier tipo.*



# CE Declaration of Conformity

Importer: TRONIOS BV  
Bedrijvenpark Twente 415  
7602 KM - ALMELO  
Tel : 0031546589299  
Fax : 0031546589298  
The Netherlands

Product number: 100.015 & 100.016

Product Description: Skytec, Passieve speakerset

Regulatory Requirement: EN 60065  
EN 55013  
EN 55020  
EN 61000-3-2/-3-3

The product met the requirements stated in the above mentioned LVD & EMC Declaration(s).  
This certificate does not cover the aspects that may be relevant such as performance and fitness for purpose.

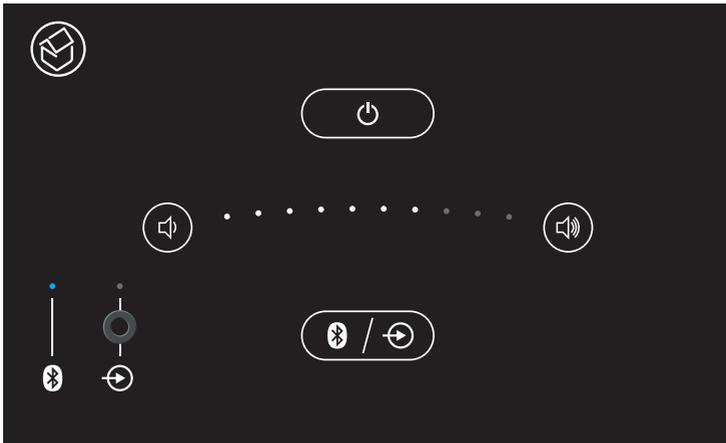
ALMELO,  
13-08-2013

Signed:  
P. Feldman

A handwritten signature in black ink, appearing to read 'P. Feldman', is written over a light blue circular stamp.

# E50/E50w 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 Radio Equipment Directive (2014/53/EU) when used and installed according to the instruction manual.

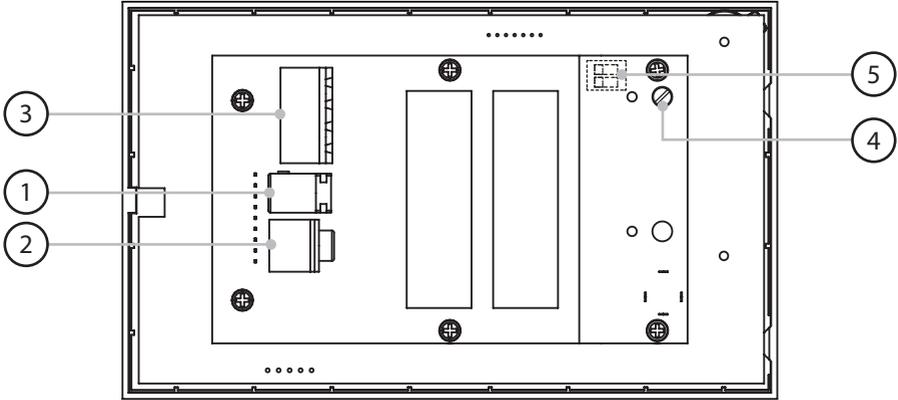
NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

The user is cautioned that changes or modifications not expressly approved by Armour Home Electronics could void the user's authority to operate the equipment.

Contains FCC ID: OC3BM1856

# 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

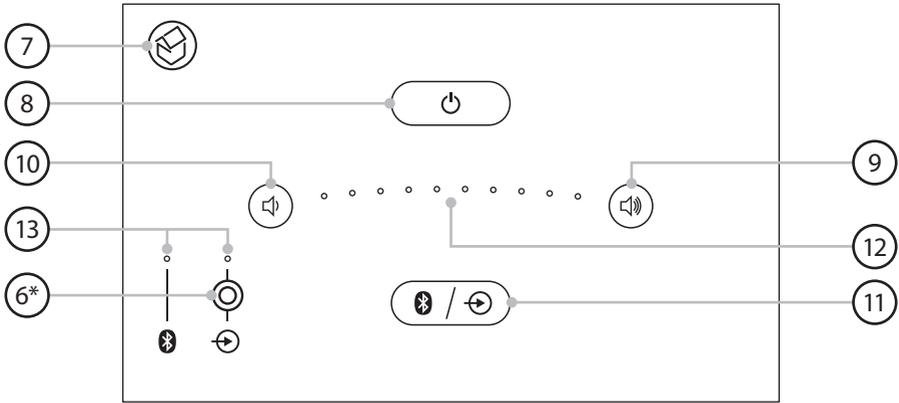
### 4. Max volume adjustment

See installer adjustments for details (page 11).

### 5. Stereo/Mono & EQ DIP switches

See installer adjustments for details (page 11).

\* Not present on E50w. Both models include line in socket on rear.



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

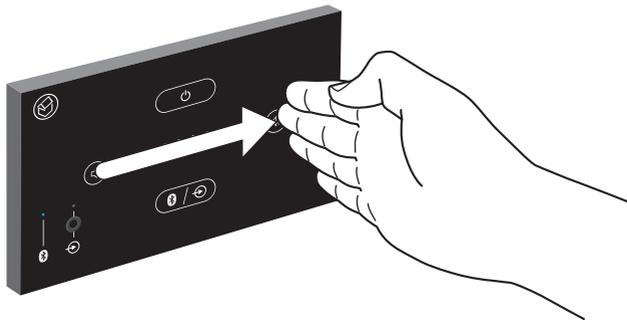
1. The E50 is always in pairing mode. Navigate to the *Bluetooth* devices list on your phone or other *Bluetooth* transmitter device. Select *Systemline E50(\_n)* from the device list. If the phone has not previously been paired a *Bluetooth pairing request* will be displayed on the phone. On the E50 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

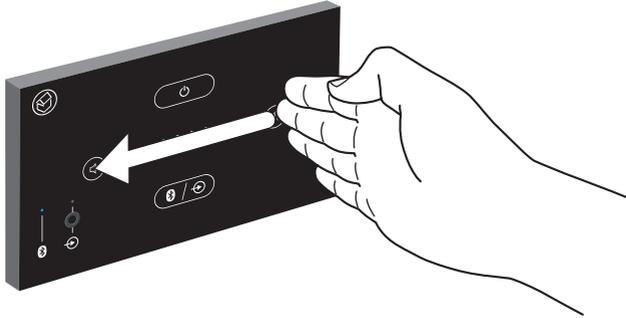
1. Use your four outstretched finger tips to flick from left of the *volume down* key to right of the *volume up* key in a single consistent sweeping motion from left to right at a distance of up to 70mm from the front panel. Do not actually touch the front panel. The track will skip forward.



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

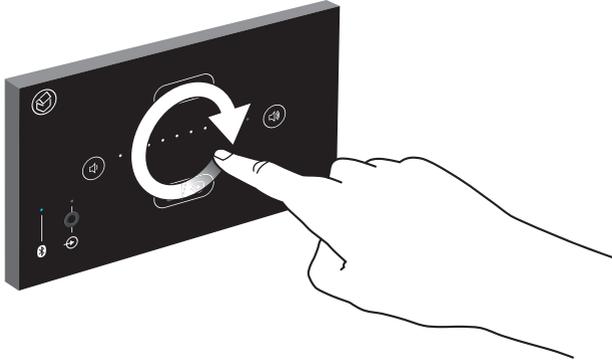
1. Make sure that a compatible analogue music source is connected to either the front or rear input jack (not both) using a 3.5mm stereo audio jack cable.

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

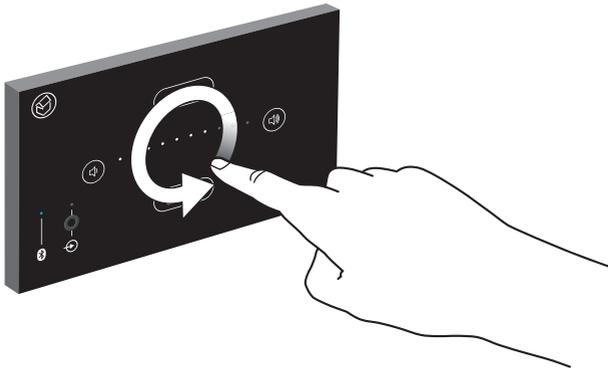
2. Check that the green *source* LED is illuminated. If not, press the *source* key. The green LED will be illuminated and the default turn on volume level will be indicated.

## 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.



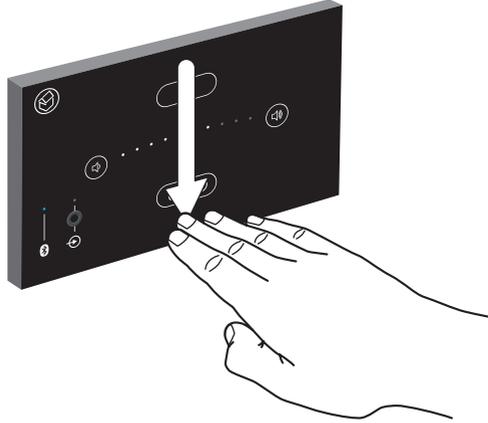
**Increase volume using hand gesture**



**Decrease volume using hand gesture**

## To mute the volume

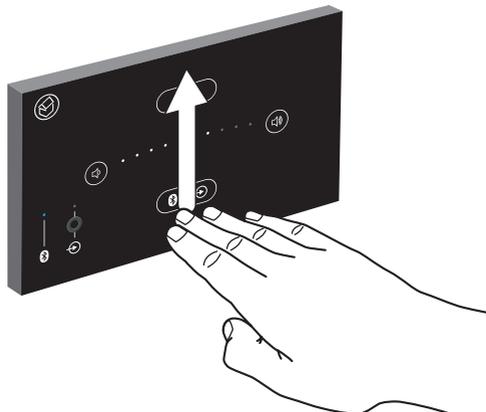
1. Use your four outstretched finger tips to flick from above the *standby* key to below the *source* key in a single consistent sweeping motion from top to bottom at a distance of up to 70mm from the front panel. Do not actually touch the front panel.
2. The music will mute and the white volume LED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

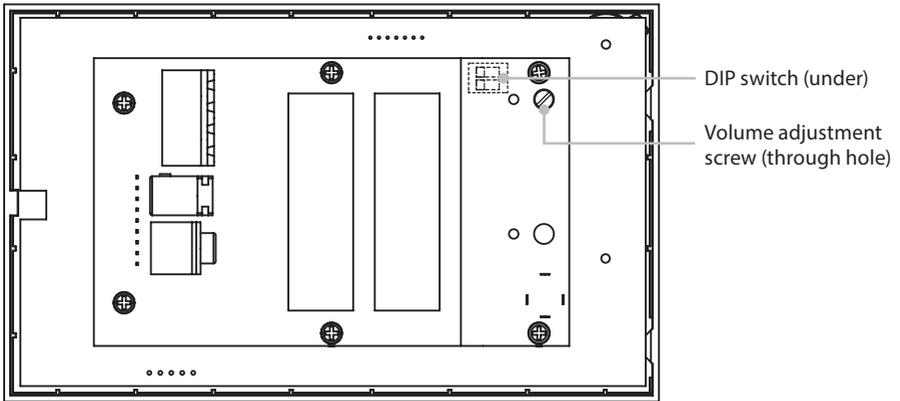
To restrict the maximum volume level of the E50, adjust the preset screw (labelled below) with a small flat blade screw driver. Turning anti-clockwise will reduce the maximum volume level and turning clockwise will increase it. The maximum output level of the speakers will be altered accordingly but the range of volume indication on the front of the unit will not be affected.

## Mono/Stereo setting

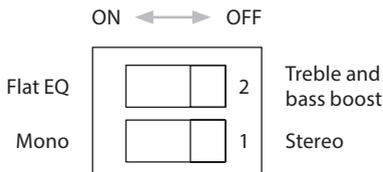
To set the amplifier output to *mono*, use a ball point pen or small screw driver to move the DIP switch #1 (labelled below) to the *ON* position. The default position for this switch is *OFF* (*stereo*).

## 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 *ON* position. The default position for this switch is *OFF* (*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*”. For installations where multiple E50s are within range of the same *Bluetooth* source, 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 volume LEDs are illuminated and the green source LED is flashing.

**DO NOT PRESS ANY BUTTONS. WAIT 2 SECONDS.**

2. Press the *source* key once. The blue source LED will flash.
3. Using the *volume up* and *down* keys on the E50 and the chart below, illuminate the corresponding number of white volume LEDs to select a new *Bluetooth* name.
4. Press the *standby* key once to set the new *Bluetooth* name.

The E50 will reboot with the new *Bluetooth* name.

Status of LEDs:

Number of white LEDs illuminated	<i>Bluetooth</i> Name
1	E50
2	Kitchen
3	Dining
4	Living
5	Master Bed
6	Ensuite
7	Bathroom
8	Conservatory
9	Garden
10	Systemline E50_2

## 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

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**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).

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# Technical Specification

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<b>Power Supply</b>	18-19V , 2.5-3.5A DC
<b>Frequency Response</b>	10Hz – 20kHz $\pm$ 1dB
<b>Signal to Noise Ratio</b>	> 80dB
<b>Cross-talk @ 1kHz</b>	better than 60 dB
<b>Total Harmonic Distortion</b>	
@1kHz Bluetooth input	0.1%
@1kHz Line input	0.2%
<b>Maximum output level</b>	
Speakers	18W/ch continuous
<b>Minimum speaker impedance</b>	4 $\Omega$
<b>Sensitivity</b>	
Analogue	550mV rms Line in
Digital	0dBFS
<b>Dimensions (W x H x D)</b>	150 x 90 x 47mm
<b>Weight</b>	830g

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## **RX30 Universal Cable Red & Black 2 x 0.75mm<sup>2</sup> 10m**

10m Standard quality Red & Black stranded power 2x 0.75mm cable for automotive and other applications.

Product colour : Black, Red  
CSA : 0.75mm<sup>2</sup>  
Conductor : 24x0.2mm  
Sheath : Black, Red  
Outer diameter : 2.75 x 6mm  
Weight (kg) : 0,25