

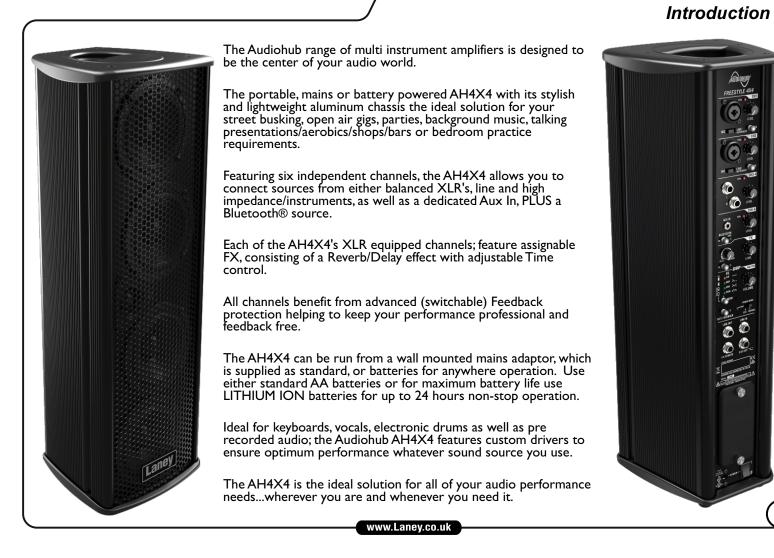
AH4X4 USER MANUAL

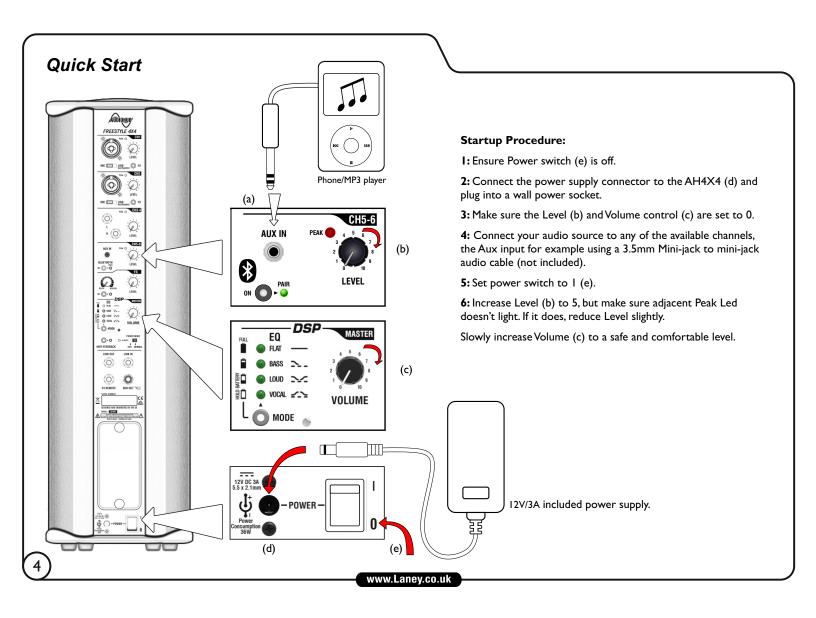


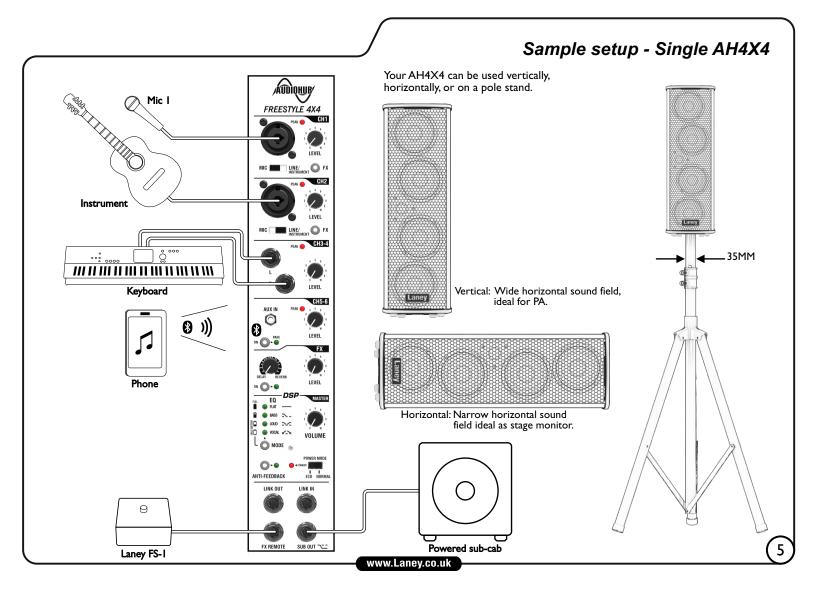
British Engineering from the Black Country United Kingdom



Velcome	
Dear Player,	
Thank you very much for purchasin family. Each and every Laney unit trust yours will give you many yea	ng your new Laney product and becoming part of the worldwide Laney is designed and built with the utmost attention to care and detail, so I Irs of enjoyment.
Laney products have a herítage whíc my parent's garage.	ch stretches back to 1967 when I first began building valve amplifiers in
public address, multi instrument av	strength to strength developing an extensive range of guitar, bass, nd keyboard amplification products along with a list of Laney endorsees ost famous and respected musicians.
At the same time we believe we have dedication to building great soundi	not lost sight of the reason Laney was founded in the first place - a ng amplification for working musicians.
Warm Regards,	
Lyndon L Chairman	aney .g Founder
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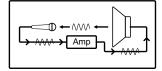


Inputs

Your AH4X4 provides you with a choice of four dedicated input channels, two of which are stereo allowing up to 8 mono inputs. I.CHI/CH2 MIC/LINE INPUT: Combi socket providing the flexibility to connect either an XLR or jack terminated cable. For improved noise performance, both inputs will accept a balanced signal, but will quite happily work with a single ended, unbalanced signal. For best results, always use a good quality instrument/mic cable. MIC I Phantom Power is available from the XLR Input only. 2. MIC LINE: Use to select required gain setup for your chosen input device. PFAK For low impedance dynamic microphones please use the MIC input settings. For LINE level devices such as keyboards, drum machines, signal processors or an instrument, switch to the LINE/Instrument setting. Phantom Power is available from the XLR Input only. 3. PEAK: A warning light to let you know that your signal is almost at the point of over-loading the input. Ideally, you don't really want to see the Peak led light at all. Damage won't occur to the amplifier, 2 LINE/ INSTRUMENT MIC | 5 but audio quality may suffer. Peak illuminates constantly = possible distortion. PFAK 4. LEVEL: Use to set the optimal level for the input, but also to create a desired level balance with other channels. Adjust the Level control so the Peak Led lights only during the very highest peaks of 6 the connected signal, then reduce the Level control slightly so the Peak led doesn't light. 5. FX: When enabled, the channel signal is routed through the onboard FX processor. For more information, please page 7. 6. CH3/4 STEREO LINE INPUT: 2 x Unbalanced lack sockets for connection of a stereo line level signal. Either input may also be used to connect a single mono source, or two individual sources. When AUX IN connecting independent sources, use the output controls on your device to adjust the balance between the two signals. Active instruments may also be connected here. BLUETOOTH 7. AUX IN: A convenient 3.5mm stereo jack input, perfect for adding a backing track to the mix from LEVEL your MP3 player or phone. www.Laney.co.uk

FX and Outputs 8. Bluetooth: Keep things tidy and lose the wire by connecting your souce via a Bluetooth capable device. To enable the onboard Bluetooth receiver, press the ON button. Whilst searching, the adjacent Pair led will AILX IN flash fast. Once a connection has been established, the Pair led will flash slowly. The range for a Bluetooth connection is approximately 10M. If you aren't using Bluetooth, de-press the Bluetooth ON switch. This will reduce power consumption and prevent accidental pairing. LEVEL 8 Both Bluetooth and AUX inputs can be used simultaneously. FX (Please see the manufacturers documentation for your Bluetooth device for connection information). 9 11 9. FX TYPE: This control determines the amount of Delay or Reverb to be applied to CH1 and CH2 if FX switch (5) is enabled. The delay/reverb length will be increased as you turn the control away from the centre position for both modes. I FVFI (10 **ON** INCOMPLETE TO ENABLE CHI/CH2 FX switches and enable Master FX ON, if you want them to DSP be routed through the FX processor. MASTER EQ 10. MASTER FX ON: Quickly switch FX on and off using this control. The adjacent LED with illuminate FLAT when the FX section is active. The FX can also be switched via a Laney FSI foot-switch. 2 Master FX switch (10) must be On for FX remote to function. Ô ~~ **II.FX LEVEL:** Fine tune the amount of FX applied to the signal using this control. ₫ΰ VOCAL VOLUME 12. MODE SWITCH: This dual function switch allows you to select one of four pre-defined EQ curves allowing you to adjust the overall feel of your music. To toggle from one to the next simply press the switch MODE momentarily. An adjacent led will clearly indicate what's selected. The EQ setting will be stored in memory, ready for use next time. Flat: General purpose EQ setting. Bass: An increase in the low frequency content of your audio. Loud: An increase in both low and high frequencies, with a slight mid cut. Vocal: Decreases the amount of bass and emphasises the vocal content. Also ideal for outdoors If you press and hold the Mode switch (for around a second) the EQ leds reconfigure to indicate the available/remaining battery life. The battery meter will display for as long as you hold the switch. INFOR the most reliable battery level check, there shouldn't be any sound from the speakers. This could be done by turning down input level, disconnecting/muting input signals or by turning the Master Volume (13) to minimum. 13. VOLUME: This is the master volume level control. It controls the level from the onboard speakers, Link Out and Sub Out. Always start with this turned to minimum. www.Laney.co.uk

Outputs

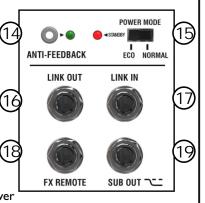


Audio feedback is caused when a loop occurs between a microphone or guitar pickup and the loudspeaker. Commonly caused by pointing a microphone at a speaker or simply by the two being too close. The result is an unpleasant screeching or whistling sound. The AH4X4 is equipped to deal with this.

14. ANTI-FEEDBACK: When the Anti-Feedback control enabled, (the adjacent LED will illuminate) the AH4X4 actively and automatically searches for any signs of feedback (over multiple frequencies) and eliminates it before it becomes a serious problem.

If you have microphones connected, enable the Anti-Feedback.

15. POWER MODE: The AH4X4 comes equipped with two power modes; Normal and ECO mode. Normal mode gives the maximum output level, while ECO mode is designed to prolong battery life whilst slightly sacrificing a little output level. When powered via the provided DC power adaptor it is recommended to enable Normal power mode for best performance. Normal mode uses intelligent power



switching to give you the loudest and best sound quality whilst also conserving battery life. In either power mode, the amplifier will enter a sleep state after a short period of inactivity to conserve battery life. While in this mode the amplifier is muted and the adjacent standby led illuminates. As soon as signal is detected at any of the channel 1-6 inputs, the amplifier will wake instantly without missing a beat.

Tou may temporarily disable sleep mode by holding the Mode button '12' in for one second whilst turning the power on. Four leds will illuminate then extinguish to confirm this is active. This mode will also temporarily disable the intelligent power switching and force the amplifier to follow the mode switch setting, regardless of audio level.

16. LINK OUT: Intended for connecting to the 'Link In' of a second AH4X4 unit. Also can be used to feed signal to another amplifier, a recorder or mixing desk.

17. LINK IN: Intended for connecting to the 'Link Out' of a second AH4X4 unit. Also could be used as an additional input for the AH4X4 amplifier stage. A line level signal is required here.

The Connecting a signal to the Link In disables the amplifier sleep function. See page 11 for connection information.

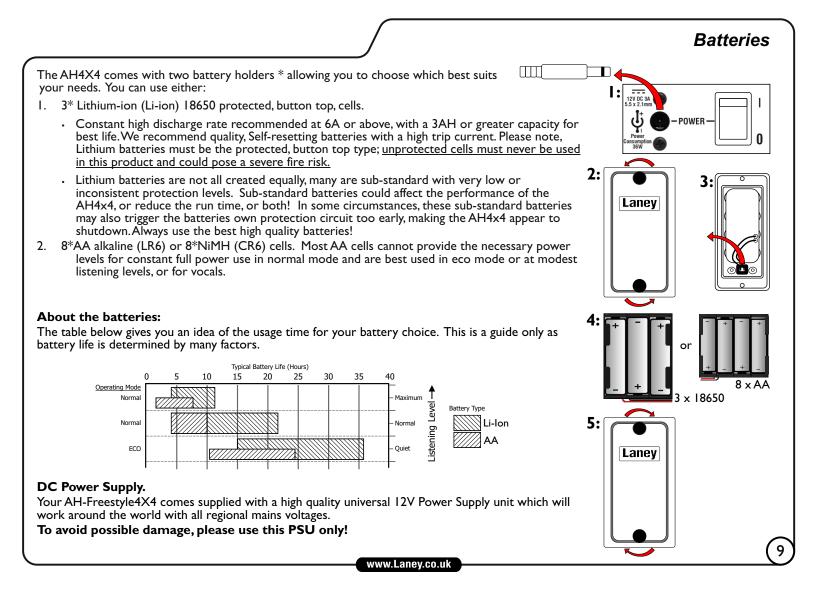
18. FX REMOTE: With the use of a one-way foot-switch (Laney FS-1 recommended) the internal effects can be switched on/off **19. SUB OUT:** A dedicated output allowing you to connect a powered sub or bass amplifier.

When a jack is plugged in to this socket, frequencies below 120Hz are removed from the onboard speakers giving more power for the mid and high frequencies. Frequencies below 120Hz are routed to the Sub Out for the sub amplifier to take care of.

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Battery safety.

If used incorrectly batteries may leak or explode and cause damage or injury, please take the following precautions.

I: Avoid mixing new batteries with old or part used batteries.

- 2: Avoid mixing battery types.
- 3: Do not try to recharge or take apart alkaline batteries.
- 4: Remove the batteries from the unit if it is not going to be used for a long time.
- 5: If batteries have leaked in the battery tray, remove the batteries and all traces of the discharge from the tray. Use caution so that none of the discharge gets near the skin or the eyes. Any affected areas should be immediately rinsed with cold running water, seek medical advice.
- 6: Do not dispose of used batteries in fire or water systems. Batteries must not be exposed to excessive heat such as sunlight, fire or the like.
- 7: Used batteries should always be disposed of in compliance with the current regulations applicable to the country/region where you live.

Fitting the batteries:

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I: Before you start, switch off the amplifier and unplug the DC power connector.

2: To access the battery compartment, remove the thumb screws on the rear of the amplifier.

3: Remove the battery pack termination connector from the amplifier.

Note - Don't remove the connector by pulling on the connected wire.

4: Carefully fit the batteries into your chosen battery holder.

Ensure the polarity markers on the battery align with those in the battery pack!

5: Load the battery back into the battery box and reconnect the pack termination connector.

Replace the cover taking care to not trap the wires.

The AH4X4 will not allow charging the batteries when the mains adaptor is connected, you should use a standard commercially available charger instead. Please follow the manufacturers instructions when charging.

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Rechargeable Li-ion batteries should be used and handled with care and only by persons who understand the dangers posed.

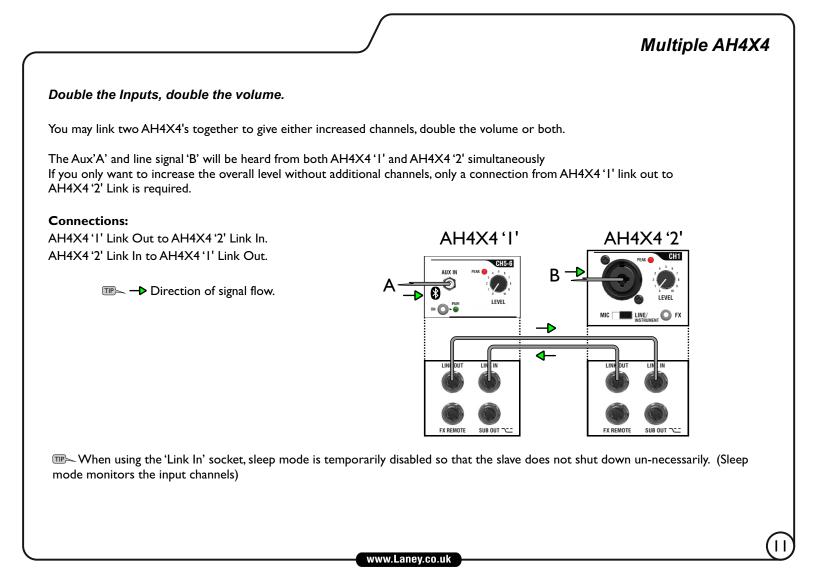
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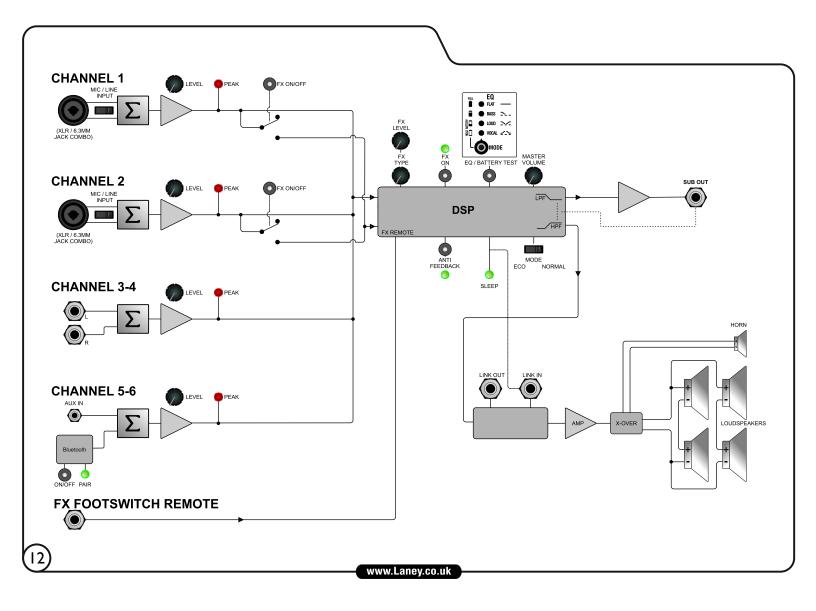
tested and found to work acceptably in

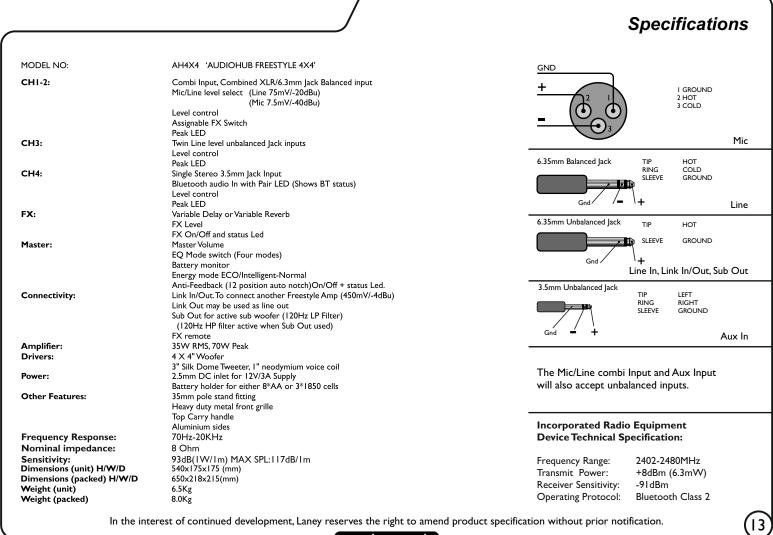
this product

* Batteries not included.

Brand Type Samsung NCR18650 XTAR 3400mAH(Black) Keeppower NCR18650B EVVA NCR18650 (Black) Enerpower NCR18650B (Blue) Panasonic NCR18650B (Green) (MH12210)







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Important Safety Instructions

1). Read & Retain these Instructions carefully before installing or operating this product.

2). Comply with Warnings: All warnings and instructions for these products should be adhered to.

3). Unpacking: On unpacking your product please check carefully for any signs of damage that may have occurred whilst in transit from the Laney factory to your dealer. In the unlikely event that there has been damage, please re-pack your unit in its original carton and consult your dealer. We strongly advise you to keep your original transit carton, since in the unlikely event that your unit should develop a fault, you will be able to return it to you dealer for rectification securely packed.

4). Amplifier Connection: In order to avoid damage, it is advisable to establish and follow a pattern for turning on and off your system. With all system parts connected, turn on source equipment, CD/MP3 players, mixers/recorders, etc, BEFORE turning on your amplifier. Many products have large transient surges at turn on and off which can cause damage to your speakers. By turning on your amplifier LAST and making sure its level control is set to a minimum, any transients from other equipment should not reach your loud speakers. Wait until all system parts have stabilised, usually after a couple of seconds. When turning off your system, always turn down the level controls on your amplifier and then turn off its power before turning off other equipment.

5). Servicing: Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as when the DC Power Supply is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.

6).Placement: This electrical apparatus should not be exposed to dripping or splashing and care should be taken not to place objects containing liquids upon the amplifier.

Do not install near any heat sources such as radiators, heat registers, stoves or other apparatus (including amplifiers) that produce heat. Do not block any of the ventilation openings.

Use only with a stand/tripod specified by the manufacturer.

7). When using the DC power Supply: Only use the approved DC power supply provided by the manufacturer.

Protect the power cord on the DC power supply from being walked on or pinched, particularly at plugs, convenience receptacles, and the point they exit from the apparatus. See notes on using the DC Power Supply page 4.

8). Batteries: See page 9 for fitting and replacing batteries.

9).Sound Levels: Exposure to extremely high noise levels may cause a permanent hearing loss. Individuals vary considerably in susceptibility to noiseinduced hearing loss, but nearly everyone will lose some hearing if exposed to sufficiently intense noise for a sufficient time.

The U.S. Government's Occupational Safety and Health Administration (OSHA) has specified the following permissible noise level exposures: According to OSHA, any exposure in excess of the above permissible limits could result in some hearing loss. Earplugs or protectors to the ear canals or over the ears must be worn when operating this amplification system in order to prevent a permanent hearing loss, if exposure is in excess of the limits as set forth above. To ensure against potentially dangerous exposure to high sound pressure levels, it is recommended that all persons exposed to equipment capable of producing high sound pressure levels such as this amplification system be protected by hearing protectors while this unit is in operation.

10). Maintenance: Clean only with a dry cloth.

Care of your Laney amplifier will prolong it's life.....and yours!

II.) Pole Stand: Don't over-extend poles/tripods; ensure at least 4 x the pole diameter is still inside the outer pole.

Make sure the legs have a good splay on tripods, but do not obstruct doorways or other access-ways. Ensure the unit is stable and cannot fall over.

Duration Per	Sound Level dBA,
Day in Hours	slow response
8	90
6	92
4	95
3	97
2	100
I 1/2	102
	105
1/2	110
¼ or less	115

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FCC COMPLIANCY STATEMENT This device compiles with Part 15 of the FCC rules. Operation is subject to the following two conditions: 1) This device must accept any interference received, that may cause undesired operation. Warning: Changes or modification to the equipment not approved by Laney can void the user's authority to use the equipment. •Note: This equipment has been tested and found to comply with the limits for 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 radia read in accordance with the instructions, may 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 and 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. •Consult the dealer or an experienced radio/TV technician for help •Consult the dealer or an experienced radio expression for help This product conforms to the requirements of the following European Regulations, Directives & Rules: CE Mark (93/68/EEC). Low Voltage 2014/35/EU, EMC (2014/30/EU), ReD (2014/30/EU), ErP 2009/125/EU SIMPLIFIED ED DECLARATION OF CONFORMITY Hereby, Laney Electronics Ltd. declares that the radio equipment to the second must be approved regulared to a size and the second must be approved regulared to endowing intermet address: support.Laney.co.uk/approvals	This device complies with Part 15 of the FCC rules. Operation is subject to the following two conditions: 1) This device may not cause harmful interference 2) This device may accept any interference received, that may cause undesired operation. Warning: Changes or modification to the equipment not approved by Laney can void the user's authority to use the equipment. Note: This equipment has been tested and found to comply with the limits for Class B digital device, pursuant to Part 15 of the initis are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generate radio frequency energy and if not installed and used in accordance with the instructions, may cause harmful interference to radio com there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio com there is no guarantee that interference will not occur in a particular installation. This equipment does cause harmful interference to radio com there is no guarantee that interference will not occur in a particular installation. This equipment does cause harmful interference to radio com there is no guarantee that interference will not occur in a particular installation. This equipment does cause harmful interference to radio com there is no guarantee that interference will not occur in a particular installation. This equipment does cause harmful interference to radio com there is no guarantee that interference will not occur in a particular installation. This equipment does cause harmful interference to radio com there is no guarantee that interference to radio COM to any be determined by turning the equipment of from that to which the receiver is connected. Consult the dealer or an experienced radio/TV technician for help This product conforms to the requirements of the following turpent haves (2011/65/EU), RED (2011/65/EU, EMC (2014/30/EU, EMC (2014/30/EU), RED (2014/30/EU), EPP 2009/125/EU SIMPLIFIED EU DEC			FCC Compliancy Statem
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In order to reduce environmental damage, at the end of its useful life, this product must not be disposed of along with normal household waste to landfill sites. It must be taken to an approved recycling centre according to the recommendations of the WEEE (Waste Electrical and Electronic Equipment) directive applicable in your country.	In order to reduce environmental damage, at the end of its useful life, this product must not be disposed of along with normal househor sites. It must be taken to an approved recycling centre according to the recommendations of the WEEE (Waste Electrical and Electro directive applicable in your country. The Bluetooth® word mark and logos are registered trademarks owned by the Bluetooth SIG, Inc. and any use of such marks by Hear is under license. Other trademarks and trade names are those of their respective owners. Laney is a registered trademark of Headstock Distribution Ltd. INCORPORATED RADIO EQUIPMENT DEVICE TECHNICAL SPECIFICATION: Frequency Range: 2402-2480MHz Transmit Power: +8dBm (6.3mW) Receiver Sensitivity: -91dBm		,	
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	Operating Protocol: Plugtooth Class 2	Receiver Sensitivity:	91dBm	

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Model number:	
Serial number:	
Place of purchase:	
Date of purchase:	

Please complete for future reference.



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