

## Quick Start Guide

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X300A Wireless Digital Hi-Fi Speaker System

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# English

## X300A Wireless Digital Hi-Fi Speaker System

### Quick Start Guide

## Introduction

Thank you for choosing a KEF digital hi-fi speaker system – the X300A Wireless model.

Innovation is what sets KEF apart from its competitors. For over 50 years KEF has been at the forefront of loudspeaker research and development, designing class-leading speakers that have dealt with the challenges of reproducing the latest musical formats, and reproducing them to the highest possible quality. This legacy continues today with the X300A Wireless, our first active wireless hi-fi speaker system for the digital music era.

Now let's hi-fi your computer.

Please read and follow this manual carefully before using this system.

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# Safety Instructions

- Follow this manual carefully for best results from your speakers
- Read and return warranty card
- Clean with a dry lint-free cloth
- Do not use alcohol-based cleaners
- Avoid damp
- Avoid temperature extremes
- Avoid direct sunlight
- SAFETY NOTICE! Trailing cables are dangerous, secure all cables

## WARNING

TO REDUCE THE RISK OF FIRE OR ELECTRICAL SHOCK, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE

	<b>CAUTION</b> RISK OF ELECTRIC SHOCK DO NOT OPEN	
<p>CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.</p>		

- A combined mains power input lead and country-specific mains plug is provided.
- Check before connecting to your local mains supply that the local supply voltage is the same as that marked on the rear panel. If it is not, check with your supplier before proceeding.

## Explanation of Graphical Symbols



The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the products enclosure that may be of a 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 and maintenance (servicing) instructions in the literature accompanying the appliance.

### WARNING:

Due to the mains switch being located on the rear panel, the appliance must be located in an open area without anything obstructing access to the mains switch.

The apparatus should be connected to a mains socket with a protective earthing connection.



Correct Disposal of This Product. This marking indicates that this product should not be disposed with other household wastes throughout the EU. To prevent possible harm to the environment or human health from uncontrolled waste disposal, recycle it responsibly to promote the sustainable reuse of material resources.

To return your used device, please use the return and collection systems or contact the retailer where the product was purchased. They can take this product for environmentally safe recycling.

Please take heed of the following before using the KEF Model X300A Wireless. Note also that the word "appliance" shall refer to the KEF X300A Wireless, or any part of it.

1. **Read Instructions** – All the Safety and Operating Instructions should be read before operating the appliance.
2. **Retain Instructions** – The Safety and Operating Instructions should be retained for future reference.
3. **Heed Warnings** – All warnings on the appliance and in the Operating Instructions should be adhered to.
4. **Follow Instructions** – All Operating and Use Instructions should be followed. Only use attachments/accessories specified by the manufacturer.
5. **Important** – Do not defeat the safety purpose of the polarized or grounding type plug. The third prong is provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet. Refer all servicing to a qualified service personnel. Servicing is required for any damaged parts such as power supply cord or plug.
6. **Water and Moisture** – The appliance should not be used in or near water; for example, near a bathtub, washbowl, kitchen sink, or laundry tub, in a wet basement, near a swimming pool, and the like. The appliance shall not be exposed to dripping or splashing. Care should be taken so that objects containing liquids are not placed upon or spilled into the enclosure through openings and that no objects filled with liquids, such as a vase, shall be placed on the appliance.
7. **Ventilation** – The appliance should be situated so that its location or position does not interfere with its proper ventilation. For example, the appliance should not be situated on a bed, sofa, or similar surface that may block any ventilation openings.
8. **Heat** – The appliance should be situated away from heat sources such as radiators, heat registers, stoves or other appliances (including amplifiers) that produce heat.
9. **Power Sources** – The appliance should be connected to a power supply only of the type described in the Operating Instructions or as marked on the appliance and it shall remain readily operable. The mains plug is used as the disconnect device. To be completely disconnected from the power input, the mains plug of the appliance must be disconnected from the mains completely.
10. **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. Pay particular attention to cords at plugs, convenience receptacles and the point where they exit from the appliance. The mains plug should not be obstructed or should be easily accessed during intended use.
11. **Attachments and Accessories** – Use only attachments/accessories specified by the manufacturer.
12. **Handling** – The appliance should be transported with the cart, stand, tripod, bracket, or table specified by manufacturer, or sold with the apparatus. When a cart is used, pay caution when moving the cart/appliance combination to avoid injury from tip-over.
13. **Non-use Periods** – Unplug the appliance during lightning storms or when unused for long periods of time.
14. **Damage Requiring Service** – The appliance should be serviced by qualified service personnel when:
  - a) The power supply cord or the plug has been damaged; or
  - b) Objects have fallen or liquid has been spilled into the appliance; or
  - c) The appliance has been exposed to rain; or
  - d) The appliance does not appear to operate normally or exhibits a marked change in performance; or
  - e) The appliance has been dropped or the enclosure is damaged.
15. **Servicing** – The user shall not attempt to service the appliance beyond that described in the Operating Instructions. All other servicing should be referred to qualified service personnel.

## FCC Compliance Statement

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.

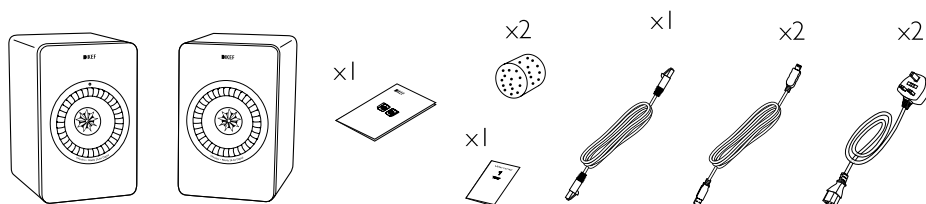
### Caution:

Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

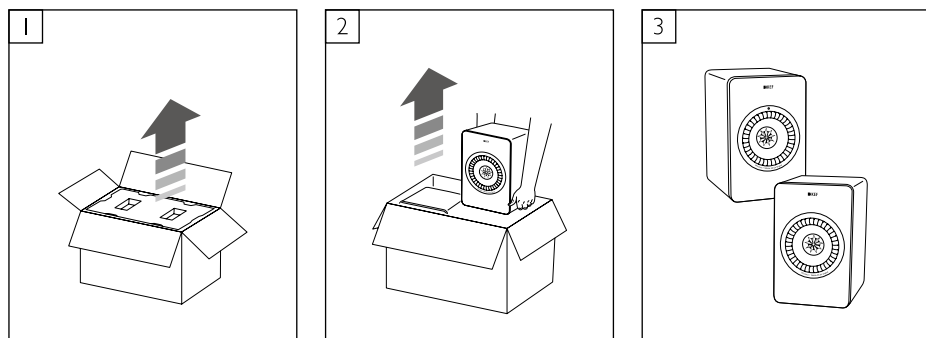
This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment.

This equipment should be installed and operated with minimum distance 20cm between the radiator & your body and must not be co-located in conjunction with any other antenna or transmitter.

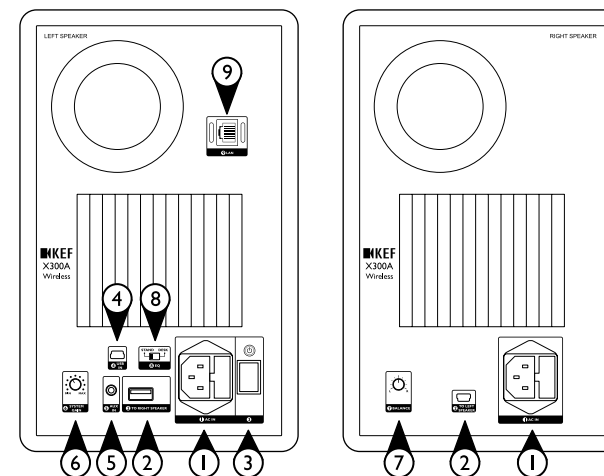
## Inside the Box



## Unpacking



## Controls and Connectors



1. AC power
2. USB between Left and Right speakers
3. Standby button
4. USB IN
5. AUX IN
6. SYSTEM GAIN control
7. BALANCE control
8. EQ switch
9. LAN port

## Standby Button

### Switch On

Press and hold	Switch on to Wireless setup mode
Press once	Switch on to operation

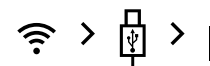
### Switch Off

Press and hold	Switch off from operation
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## Operation Modes

X300A Wireless provides you 3 ways to connect to your music source, Wireless, USB and AUX IN. The highest priority mode available will be activated automatically when an active signal is detected.

Playback priority is given as below:

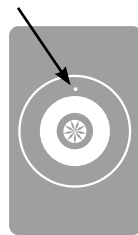


Operation mode	Conditions to activate
Wireless	N/A (Always at the highest priority)
USB	No playback in Wireless mode
AUX IN	1. No playback in Wireless mode 2. USB cable unplugged from computer

## Status Indicator

Light Indicator	System Status
Blue/ Amber blinking	Wireless setup mode
Blue, slow blinking	Network connecting
Blue, solid	Network connected
Amber, slow blinking	Firmware Upgrade
Amber, solid	Network problem
Amber, fast blinking	Critical firmware error
Blue, fast blinking	Connection problem between the Left and Right speakers
Red, blinking	System fault
Red, solid	Switch off

Light Indicator



## Wireless Network Set-Up

A few more steps are needed before you can start wireless streaming.

You can setup a connection between X300A Wireless and your home Wi-Fi network by either wireless connection or wired connection. For wireless connection, please download KEF Wireless Easy Setup Wizard (available at [www.kef.com](http://www.kef.com)).

\* X300A Wireless will remember the last home Wi-Fi network it was connected to. Every time the system restarts, it will automatically search and connect to that network.

## By Wireless Connection

Before proceeding, please ensure you have the following:

- A Wi-Fi enabled Mac/ PC.
  - KEF Wireless Easy Setup Wizard (available at [www.kef.com](http://www.kef.com)).
  - Name and password of your home Wi-Fi network.
1. Run the KEF Wireless Easy Setup Wizard and select your language of choice.
  2. Click "First time setup" and follow the on-screen instructions to complete the setup process.

## By Wired Connection

Before proceeding, please ensure you have the following:

- A Mac/ PC with Ethernet port.
  - Name and password of your home Wi-Fi network.
1. Disconnect all network connections of your Mac/ PC.
  2. Connect the Ethernet cable to the Ethernet port of your Mac/PC and LAN port ⑨ of X300A Wireless.
  3. Power up each speaker ① and turn on the system by pressing the standby button ③. Indicator light will flash blue.
  4. Indicator light will turn to solid blue once the network connection is established. This process may take up to 2 minutes.
  5. Run the internet browser on your computer, enter the URL <http://169.254.112.202>
  6. a) (Optional) Rename your speaker.  
b) Select the home Wi-Fi network you are going to connect to and input the password. Click "Save" and remove the LAN cable.
  7. Speaker will restart. Blue light will flash and become solid again when the setup is completed.


## Change Wireless Configurations

You can always rename your X300A Wireless speaker, change the home Wi-Fi network connection and check network configurations.

1. Repeat the above steps to enter the KEF Wireless Easy Setup Wizard.
2. Select your language of choice, click "Change settings" and follow the on-screen instructions.

## Streaming with AirPlay



### Stream Music from iOS device (iPhone/ iPad/ iPod touch) / Mac

1. Make sure your iOS device/ Mac and X300A Wireless are connected to the same home Wi-Fi network.
2. Power up each speaker and connect the USB cable between Left and Right speaker.
3. Press the standby button. Wireless network is ready once the indicator light turns solid blue.
4. Open iTunes, select the AirPlay icon .
5. Select "KEF X300A Wireless" on the AirPlay menu.
6. Play and enjoy your music.

Caution! Volume can only be adjusted on source device. Please ensure your source volume is set to low before you start streaming and adjust to volume of your liking.

## Streaming with DLNA (Android device)

### Stream Music from Android device

1. Make sure your Android device and X300A Wireless are connected to the same home Wi-Fi network.
2. Power up each speaker and connect the USB cable between Left and Right speaker.
3. Press the standby button. Wireless network is ready once the indicator light turns solid blue.
4. Download and install the KEF Digital Media Control app (available at Google Play Store and [www.kef.com](http://www.kef.com)).
5. Run the app. Choose "KEF X300A Wireless" as your speaker.
6. a) Select the Android device you would like to stream music from as the server or  
b) Select your own Android device as the server.
7. Once the server is connected, you will see your music library stored in your Android device.
8. Tap on any music file you would like to play, they will be streamed to X300A Wireless directly.
9. If you have renewed music contents in the Android device, tap the  icon and select "Update Server".
10. End the app by tapping the  icon and "Exit".


## Streaming with DLNA (PC)

### Setup Media Sharing in Windows Media Player 12

1. Run Windows Media Player 12.
2. Click "Stream" and "Turn on home media streaming". "Turn on home media streaming" would not be available on the Stream menu if streaming is already turned on. In this case, please skip to step 5.
3. On the "Media streaming options" page, click "Turn on media streaming". If you are prompted for an administrator password or confirmation, type the password or provide confirmation.
4. Click "OK".
5. Click "Stream", select "Allow remote control of my Player" and "Automatically allow devices to play my media".
6. Your Windows Media Player is ready to be the media sharing server and be discovered by KEF Digital Media Control app.

\* You can setup other media sharing software on your PC as server. For details, please refer to the instructions of your media sharing software.

## Stream Music from PC

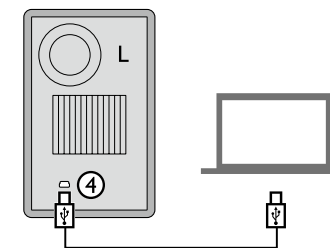
1. Make sure your PC, Android device and X300A Wireless are connected to the same home Wi-Fi network.
2. Power up each speaker and connect the USB cable between Left and Right speaker.
3. Press the standby button. Wireless network is ready once the indicator light turns solid blue.
4. Download and install the KEF Digital Media Control app (available at Google Play Store and [www.kef.com](http://www.kef.com)).
5. Run the app, choose "KEF X300A Wireless" as your speaker and your PC as server.
6. Once the server is connected, you will see the music library stored in your PC.
7. Tap on any music file you would like to play, they will be streamed to X300A Wireless directly.
8. End the app by tapping the  icon and "Exit".


Caution! Volume can only be adjusted on source device. Please ensure your source volume is set to low before you start streaming and adjust to volume of your liking.

## USB / AUX Playback

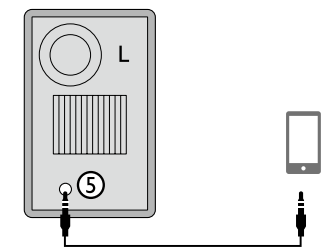
Connect 

### USB IN




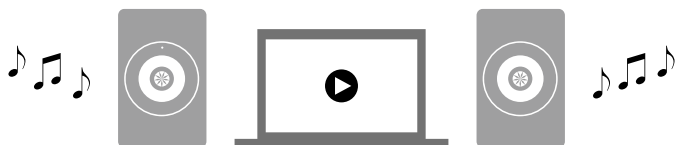
- Ia. Connect the USB cable between the Left speaker  and your computer.

### AUX IN



Or

- Ib. Connect a 3.5mm stereo cable (not included) between the Left speaker  and your music player, smartphone or other analogue device.

Play 

## 2a. For Windows

- I. Play and enjoy your music.

## 2b. For Mac OS

- I. Choose "System Preferences" from the Apple menu.
- II. Click "Sound".
- III. Click the "Output" tab.
- IV. Select "KEF X300A Wireless" from the device list.
- V. Play and enjoy your music.

\* It is recommended that the X300A Wireless be used with Windows 7 and Mac OS 10.6 & above operating systems.

**Recommendation**

For optimal sound output, it is recommended that you set the X300A Wireless system gain level to its minimum (See P.11 – System gain control), and the master volume of your computer to its maximum. Increase the system gain slowly to a level comfortable for your listening.

Options for volume control during playback:

1. Use the system gain as the main volume control
  - I. Use this option for playback without losing bit-depth.
  - II. Set the volume on media player to its maximum when using this option.
2. Use the volume control on media player
  - I. Use this option for convenience in volume adjustment via your computer's interface.

For better music enjoyment while multi-tasking on your computer, it is recommended that the system sound be disabled to prevent any interruption to music listening.

**For Windows:**

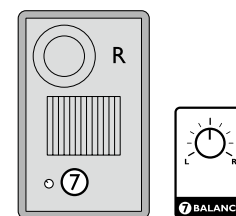
1. Choose "Control Panel" from the Start menu.
2. Click "Sound".
3. Click the "Sounds" tab.
4. Select "No Sounds" under "Sound Scheme" and click "OK".

**For Mac OS:**

1. Choose "System Preferences" from the Apple menu.
2. Click "Sound".
3. Click the "Sound Effects" tab.
4. Uncheck "Play user interface sound effects".

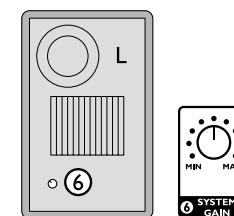
## Controls and Settings

### Balance control



Adjust the "BALANCE" knob (7) until you hear the most balanced sound from Left and Right speakers. The default setting is at the 12 o'clock position for equal balance between the speakers.

### System gain control

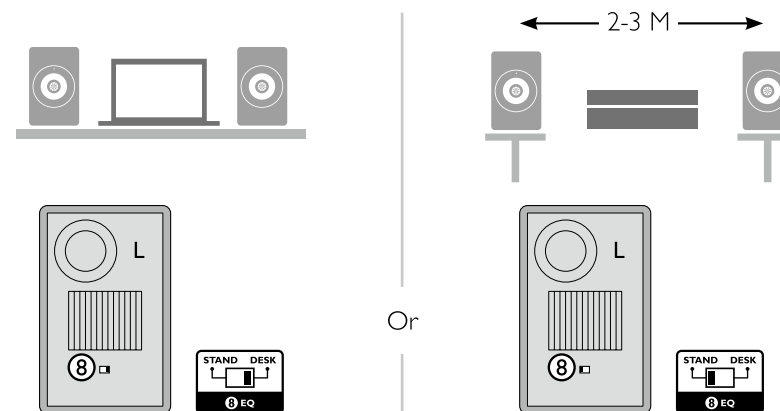


Adjust the "SYSTEM GAIN" knob (6) to control music volume. The default setting is at the 12 o'clock position.

\* Not available in Wireless streaming mode.

Caution! Continuous listening to music at high volume may cause hearing damage.

### Sound Optimisation - EQ setting

**Desktop**

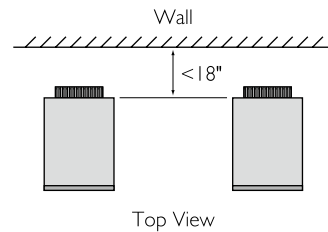
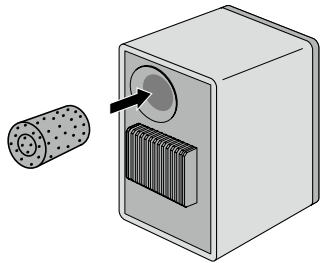
Switch to "DESK" (8) for desktop / near field listening.

Or

**Stand**

Switch to "STAND" (8) for open space listening. For optimal performance, the use of good quality speaker stands with the X300A Wireless is recommended. A 5M USB cable is also recommended for open space configuration so that the speakers could be placed between 2M to 3M apart for optimum stereo effect.

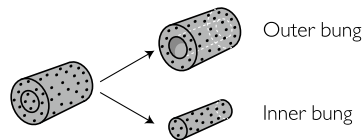
## Sound Optimisation - Use of bungs



A pair of bungs is supplied with the X300A Wireless system for you to fine-tune the bass output. When the speakers are positioned close to the wall, it is recommended that the bungs be placed into the rear port if you find the bass output to be overwhelming or boomy.

### 1. Outer bung only

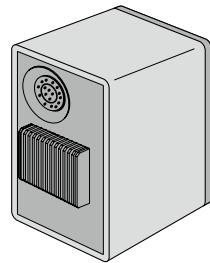
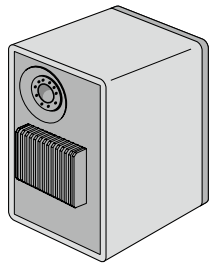
The bung can be separated into outer and inner bungs. The use of the outer bung only will give less bass reduction.



### 2. Full bung

For more bass reduction, you may put the full bung into port.

It is recommended that you try the different bung configuration to achieve the most optimal sound output for your environment.



## Firmware Upgrade

Stay tuned to firmware upgrade announcements on KEF website ([www.kef.com](http://www.kef.com)). Always upgrade to the latest firmware to ensure you can enjoy the best of X300A Wireless.

1. Enter the KEF Wireless Easy Setup Wizard and select your language of choice.
2. Select "Upgrade firmware" and follow the on-screen instructions.
3. Power off and on the X300A Wireless after Firmware Upgrade is completed.

\* No playback is allowed during Firmware Upgrade.

## Troubleshooting

### Status Indication

Problem	Action
Fast blue light blinking	Make sure that the Left and Right speakers are properly connected through the USB cable.
Amber light on	Check if your home Wi-Fi network is working properly. If problem persists, try to re-setup the wireless connection.
Fast amber light blinking	Try to upgrade your firmware again. If problem persists, please contact your local dealer or service helpdesk.
Red light blinking	Switch off the X300A Wireless and switch on again after 15 minutes.

### Power

Problem	Action
X300A Wireless does not turn on	Connect power cords between speakers and the mains socket respectively.
	Make sure that your main power supply has been turned on.



## Sound

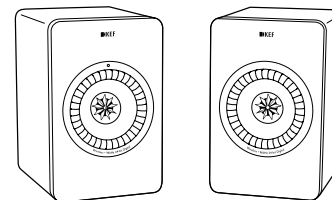
Problem	Action
No sound	Make sure that the USB cable to computer has been disconnected when you are playing the AUX IN source.
	Check if amber light is on when you are going to stream music. If yes, please refer to the previous section "Status Indication".
	Playback function is deactivated in Wireless setup mode and Firmware upgrade mode.
	Check if the USB/ 3.5mm stereo cable is properly connected.
	If you are Mac OS user, manually select KEF X300A Wireless as your sound device (See P. 10 "Play").
	Try volume up on system gain control, computer and app. Make sure the volume is audible.
	Make sure that the Left and Right speakers are properly connected.
Sound fades out	Make sure that the speakers are powered up.
	Switch off the speakers and switch on again.
	Switch off the speaker and switch on again after 15 minutes.

## Network Connection

Problem	Action
Wireless setup failed	Check if your home Wi-Fi network is working properly.
	If you failed in setup by wireless connection, try the wired connection method (See P. 6 "By Wired Connection" ).
Wireless network cannot be established	Check if your home Wi-Fi network is working properly.
	If problem persists, try to re-setup the wireless connection.

For further updates and troubleshooting, please visit KEF website: [www.kef.com](http://www.kef.com)

## Specifications



Model	X300A Wireless
Design	Two-way bass reflex
Drive units	Uni-Q driver array: HF: 25mm (1in.) vented aluminium dome LF/MF: 130mm (5.25in.) magnesium/ aluminium alloy
Frequency range (-6dB)	49Hz - 45kHz
Frequency response (±3dB)	58Hz - 28kHz
Max peak SPL	104dB
Amplifier class	Twin Class AB
Amplifier power	LF: 50W HF: 20W
AC power input	US/JP versions: 100-120VAC 50/60Hz EU/UK versions: 220-240VAC 50Hz China version: 220-230VAC 50Hz
Analogue input	AUX: 3.5mm stereo jack
Digital input	USB: Mini USB Type B connector
Resolution	Up to 24-bit
Sampling rate	Up to 96kHz, depending on source resolution
Wireless standard	IEEE 802.11b/g
Wireless frequency band	2.4 GHz
Network connection	802.11b/g wireless 100 Base-T, RJ45 Ethernet
Wireless network streaming	DLNA: V1.5 Digital Media Renderer (DMR) AirPlay: AirPlay works with iPhone, iPad and iPod touch with iOS 4.3.3 or later, Mac with OS X Mountain Lion (10.8.0) or later, and Mac or PC with iTunes 10.2.2 or later
Control	Balance control System volume control
Internal volume	4.7L
Dimensions (H x W x D)	Without heatsink: 280 x 180 x 215 mm (11.0 x 7.1 x 8.5 in.) With heatsink: 280 x 180 x 243 mm (11.0 x 7.1 x 9.6 in.)
Weight	7.5kg per speaker

KEF reserves the right, in line with continuing research and development, to amend or change specifications. E&OE.

[www.kef.com](http://www.kef.com)

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