

BELKIN®

User Manual
TuneStage® 2 for iPod®

Introduction

TuneStage 2 provides a stylish, easy way to play your iPod tunes through your home stereo—without wires. Setup takes only minutes and requires no software or custom configuration. Just plug it in and enjoy your music.

TuneStage 2 from Belkin delivers the pristine, CD-quality sound that iPod users demand. Featuring advanced *Bluetooth* 2.0 technology for enhanced audio quality, the TuneStage 2 provides improved rejection of interference, and lower power consumption compared to the *Bluetooth* 1.2 standard. TuneStage 2 transmits wirelessly from up to 10m away from your stereo, even through walls. Please review this User Manual carefully so that you can be sure to get the most from your TuneStage 2.

The TuneStage 2 works with any iPod that has a dock connector on the bottom



Package Includes



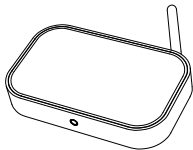
TuneStage 2 *Bluetooth*™ Transmitter



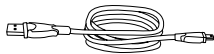
1.8m Dual RCA-to-3.5mm Stereo Cable



12V/1.0A AC Power Adapter



TuneStage 2 *Bluetooth* Receiver

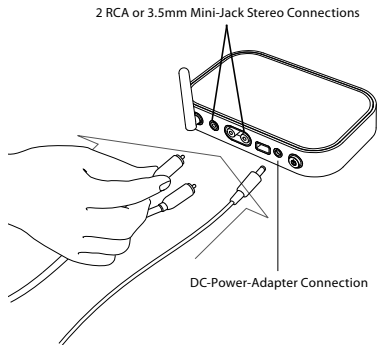


0.9m USB A-to-Mini-B Cable

Setup Instructions

STEP 1: TuneStage 2 Receiver Setup

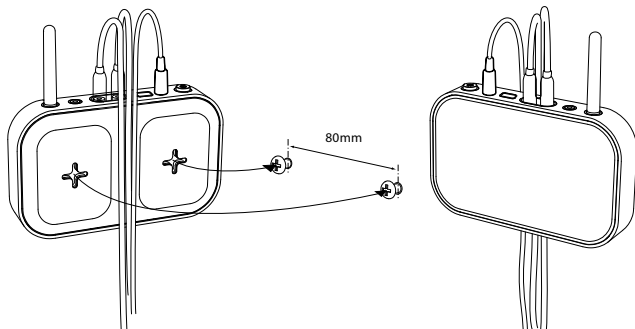
1. Power off your stereo system.
2. Plug the TuneStage 2 Receiver into one of your home-stereo, audio-source inputs using the supplied audio cable, usually the “aux” input is a good choice. Do not connect TuneStage 2 to your receiver’s “phono” input.
3. Plug the included power adapter into the TuneStage 2 Receiver and then plug the other end into an AC outlet.
4. Press in the power button located at the back of the TuneStage 2 Receiver.
5. Power on your home stereo and select the audio-source input to which the TuneStage 2 Receiver is connected.



Setup Instructions

Wall-Mounting the TuneStage 2 Receiver (Optional)

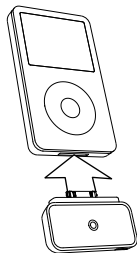
1. Make sure the antenna is pointed upward.
2. You can hang the Receiver on a wall using two screws (not included).
3. The cables should run through the channel on the bottom of the Receiver, so they are held securely to the wall.



Operating Instructions

STEP 2: TuneStage 2 Transmitter Setup

1. For best results, the Transmitter should be close to the Receiver when first making the wireless connection.
2. Power on your iPod, and then insert the TuneStage 2 Transmitter into the bottom of the iPod. Wait approximately two seconds and press "PLAY" on the iPod.
3. The Transmitter will power on automatically, and the blue LED will begin to blink rapidly while it searches for the Receiver to which to pair. The Receiver LED will also blink rapidly during this search mode.
4. The Transmitter and Receiver will pair with each other within 60 seconds. When the devices are paired and ready, the LED on the Receiver will remain on and the LED on the Transmitter will blink slowly. **NOTE:** The next time you start up the TuneStage 2, it will pair much faster as the Receiver remembers the last device with which it paired. This will usually happen in less than 10 seconds.
5. You can now play any song on your iPod through your stereo. For the best audio quality, adjust the volume level on your stereo to less than 50-percent full, and use just the iPod to change the volume up or down.



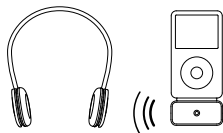
iPod with video 30GB

Operating Instructions

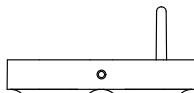
STEP 3: TuneStage 2 Setup for Use with Headphones Enabled with Bluetooth Technology (Optional)

NOTE: TuneStage 2 will only pair with stereo headphones enabled with *Bluetooth* technology that have a pairing code of 0000. Consult your headphones' manual for the pairing code.

1. Make sure the TuneStage 2 Receiver's power button is in the off position.
2. Put your headphones enabled with *Bluetooth* technology into pairing mode. Consult your headphones' user manual on how this is done.
3. For best results, the Transmitter should be close to the headphones when first making a wireless connection.
4. Power on your iPod, and then insert the TuneStage 2 Transmitter into the bottom of the iPod. Wait approximately two seconds and press "PLAY" on the iPod.
5. The Transmitter will power on automatically, and the blue LED will begin to blink rapidly while it searches for your headphones to which to pair.
6. Your headphones' LED indicator should also blink during pairing. Consult your headphones' user manual on how the LED-indicator light works.
7. The TuneStage 2 Transmitter and your headphones should pair within 60 seconds. You will be able to hear music through your headphones if your iPod is in play mode.
8. You can now play any song on your iPod through your headphones. You can control the volume and track change features through your iPod or through the headphones if they feature these controls.



Understanding the LEDs



TuneStage 2 Receiver Status	LED Behaviour
Power off	Off
Power switched on	Blinks on/off in 0.5-second intervals for 20 seconds, then turns off (Note: Receiver remains in standby mode, ready to detect a Transmitter.)
Pairing with Transmitter	LED blinks rapidly for 60 seconds (LED will turn OFF after 60 seconds, but the Receiver will remain detectable)
Paired/receiving signal	On



TuneStage 2 Transmitter Status	LED Behaviour
Power off	Off
Searching for Receiver	Blinks on/off rapidly for up to 60 seconds*
Paired/receiving signal	Blinks once every 2 seconds

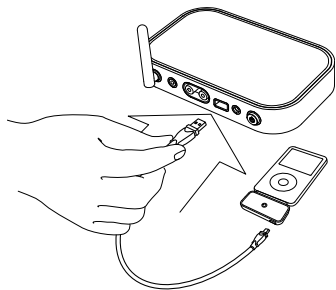
*Universal Pairing Sequence: The Belkin Transmitter will automatically search for the last connected/paired Receiver device first. If no device is detected, it will then search for a new Receiver with a security code of 0000. This sequence will last up to a total of 60 seconds. If no connection is made, the Receiver will return to standby mode and the Transmitter will turn off. To retry pairing, press "PLAY" on the iPod. Pairing will automatically begin again.

Charging your iPod

The Receiver and Transmitter are equipped with USB ports to allow charging while still allowing you to play your music through your stereo.

- Plug the larger, A-type connector on the included USB cable into the USB port on the back of the Receiver
- Plug the small, mini-B-type connector into the top of the Transmitter.
- Your iPod is now charging.
- Remove the USB cable from the Transmitter when your iPod is charged.

Note: The USB power out is for iPod charging only.



Troubleshooting

Transmitter is not powering on when plugged into the iPod.

- Press "PLAY" on the iPod scroll wheel.
- Remove the Transmitter and reinstall it into the bottom of your iPod. Wait two seconds, and then press "PLAY" on the iPod scroll wheel.
- Ensure that your iPod is charged and powered on, and then press "PLAY" on the iPod scroll wheel.

Receiver is not powering on.

- Ensure that the Receiver's power switch is in the ON position. Ensure that the AC power adapter is connected to a powered wall outlet and that the plug is properly inserted into the TuneStage Receiver's power jack.

The Transmitter and Receiver are connected, but there is no sound.

- Select a song on the iPod and press "PLAY".
- Make sure that the audio cable is correctly plugged into the back of the Receiver as well as the back of the stereo system.
- Ensure that the stereo system is set to the correct input source.
- Make sure that both the iPod and your stereo receiver are powered on.
- Repeat STEP 1 from the setup instructions.

While listening, I notice the sound quality diminishing or hear noticeable interference.

- If there is a 2.4-gigahertz cordless phone or a microwave oven within six feet of the Receiver and/or Transmitter, this may cause interference. Make sure that the Receiver and/or Transmitter are not within this range to ensure the best sound quality.

Another device is pairing with the TuneStage 2, and the music from the iPod cannot be heard.

- Turn off the other Receiver or Transmitter that is in the area of the TuneStage 2.
- Repeat STEP 1 from the setup instructions.

Specifications

Bluetooth Compliance:

Bluetooth v2.0-compliant

Supported Profiles: A2DP, AVRCP

Operating Frequency: 2.4 to 2.4835GHz

Spread Spectrum: FHSS

(Frequency Hopping Spread Spectrum)

Modulation: GFSK

(Gaussian Frequency Shift Keying)

Radio Characteristics

RF Output: +2.0 dBm

Sensitivity: <0.1% BER at -81 dBm

Operating Range: 10m*

***Bluetooth* Pairing Code of Receiver**

(required if attempting to use another

Transmitter to connect with the TuneStage 2

Receiver): 0000

***Bluetooth* Pairing Code of Transmitter**

(required if attempting to use another Receiver

to connect with the TuneStage 2 Transmitter):

0000

*10m range is dependent upon environment, number of users, and presence or absence of other wireless devices within immediate proximity.

Audio-Input Performance

SNR: >85 dBc

Distortion: -80 dB at 1kHz

Audio-Output Performance

Power: 10mW into 100 Ohms

THD: -80 dBc

Power Requirements for Transmitter

Typical Operating Current: <40mA

AC Power: 3.3V @ 40mA

Run time of Transmitter on a fully charged

iPod with video 60GB: up to 7 hours; other

models' run times will vary depending on

battery capacity

Standby time of Transmitter on a fully charged

iPod with video 60GB: up to 200 hours; other

models' standby times will vary depending on

battery capacity.

Power Requirements for Receiver

12V @ 1.0A

Physical

Receiver Dimensions: 16.5 x 11.5 x 3.0 (cm)

Transmitter Dimensions: 6.0 x 3.8 x 1.0 (cm)

Belkin International Limited 3-Year Product Warranty

What this warranty covers.

Belkin International warrants to the original purchaser of this Belkin product that the product shall be free of defects in design, assembly, material, or workmanship.

What the period of coverage is.

Belkin International warrants the Belkin product for three years.

What will we do to correct problems?

Product Warranty.

Belkin will repair or replace, at its option, any defective product free of charge (except for shipping charges for the product).

What is not covered by this warranty?

All above warranties are null and void if the Belkin product is not provided to Belkin International for inspection upon Belkin's request at the sole expense of the purchaser, or if Belkin International determines that the Belkin product has been improperly installed, altered in any way, or tampered with. The Belkin Product Warranty does not protect against acts of God (other than lightning) such as flood, earthquake, war, vandalism, theft, normal-use wear and tear, erosion, depletion, obsolescence, abuse, damage due to low voltage disturbances (i.e. brownouts or sags), non-authorized program, or system equipment modification or alteration.

How to get service.

To get service for your Belkin product you must take the following steps:

1. Contact Belkin Limited at 4 Pioneer Avenue, Tuggerah, NSW,2259, Attn: Customer Service, or call 1800 235 546, within 15 days of the Occurrence. Be prepared to provide the following information:
 - a. The part number of the Belkin product.
 - b. Where you purchased the product.
 - c. When you purchased the product.
 - d. Copy of original receipt.
2. Your Belkin Customer Service Representative will then instruct you on how to forward your receipt and Belkin product and how to proceed with your claim.

Belkin International Limited 3-Year Product Warranty

Belkin International reserves the right to review the damaged Belkin product. All costs of shipping the Belkin product to Belkin International for inspection shall be borne solely by the purchaser. If Belkin determines, in its sole discretion, that it is impractical to ship the damaged equipment to Belkin International, Belkin may designate, in its sole discretion, an equipment repair facility to inspect and estimate the cost to repair such equipment. The cost, if any, of shipping the equipment to and from such repair facility and of such estimate shall be borne solely by the purchaser. Damaged equipment must remain available for inspection until the claim is finalised. Whenever claims are settled, Belkin International reserves the right to be subrogated under any existing insurance policies the purchaser may have.

How state law relates to the warranty.

THIS WARRANTY CONTAINS THE SOLE WARRANTY OF BELKIN INTERNATIONAL, THERE ARE NO OTHER WARRANTIES, EXPRESSED OR, EXCEPT AS REQUIRED BY LAW, IMPLIED, INCLUDING THE IMPLIED WARRANTY OR CONDITION OF QUALITY, MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, AND SUCH IMPLIED WARRANTIES, IF ANY, ARE LIMITED IN DURATION TO THE TERM OF THIS WARRANTY.

Some states do not allow limitations on how long an implied warranty lasts, so the above limitations may not apply to you.

IN NO EVENT SHALL BELKIN INTERNATIONAL BE LIABLE FOR INCIDENTAL, SPECIAL, DIRECT, INDIRECT, CONSEQUENTIAL OR MULTIPLE DAMAGES SUCH AS, BUT NOT LIMITED TO, LOST BUSINESS OR PROFITS ARISING OUT OF THE SALE OR USE OF ANY BELKIN PRODUCT, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

This warranty gives you specific legal rights, and you may also have other rights, which may vary from state to state. Some states do not allow the exclusion or limitation of incidental, consequential, or other damages, so the above limitations may not apply to you.

Information

FCC Statement

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 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 which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Canada-Industry Canada (IC)

The wireless radio of this device complies with RSS 139 & RSS 210 Industry Canada. This Class B digital apparatus complies with Canadian ICES-003.



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www.belkin.com/anz

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In addition to the requirements of Section 7.1.5 in RSS-Gen, the device's shall also contain the following or equivalent statement: "Privacy of communications may not be ensured when using this telephone".

If privacy is provided as a standard feature, the privacy notice may be omitted provided that full justification accompanies the equipment certification application for evaluation by Industry Canada.

FCC statement in User's Manual (for class B)

"Federal Communications Commission (FCC) 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.**

1. The 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, and

(2) this device must accept any interference received, including interference that may cause undesired operation.

2.FCC RF Radiation Exposure Statement: The equipment complies with FCC RF radiation exposure limits set forth for an uncontrolled environment.

3. This device and its antenna(s) must not be co-located or operating in conjunction with any other antenna or transmitter.

4. Changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user authority to operate the equipment.