

LF-30S

Owner's Manual



LF-30S
Wireless A/V Transmitter and
Receiver System



Important Safety Precautions:

1. To prevent fire or shock hazard, do not expose this product to rain or moisture. Do not use near a bathtub, wash bowl, sink or laundry tub, in a wet basement or around a swimming pool.
2. To avoid electrical shock, do not open the case of this product.
3. Operate this product using only the power supply included with the unit or supplied as an accessory.
4. Do not overload electrical outlets or extension cords as this can result in electrical shock.
5. Refer servicing to qualified personnel only.

Caution: Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Disclaimer: This product is designed for lawful use as a wireless system for transmitting audio and video signals from one location in the home or office to another location. TERK Technologies Corporation hereby advises the consumer to consult with local officials and other legal authorities regarding the proper use and application of this product in compliance with all applicable state and federal laws. TERK Technologies Corporation shall not be responsible for any misuse or unlawful application of this product by any individual or entity under any circumstances.

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Need extra help?

Please call us toll free at
1-800-942-TERK (8375) -
Mon.-Fri., 9 AM-5 PM EST.

Introduction

Leapfrog LF-30S - 2.4GHz Wireless Convenience

The TERK Leapfrog LF-30S uses the latest in wireless technology to deliver consistently sharp and clear video images and stereo audio up to 150 feet away.

By transmitting at a super-high frequency of 2.4 GHz, the FCC-approved LF- 30S avoids the crowded frequency band used by many cordless phones and other wireless A/V transmitters, and utilizes FM rather than lower quality AM signal modulation. The use of state-of-the-art circularly polarized directional transmitting and receiving antennas maximizes signal range and minimizes interference from unwanted signals.

The LF-30S is compatible with all types of TVs, both new and old, and A/V components. You can even add more receiver units (Model LF-30RX, sold separately) to accommodate additional TVs or A/V components and expand your home entertainment system.

Introduction (continued)

The LF- 30S gives you the convenience to wirelessly:

- Watch cable, satellite programming or DVD movies on any TV in your home, without the hassle and expense of running extra wiring, moving your A/V source or buying another one.
- Set up a TV anywhere inside or outside your home (where you have access to an AC outlet).
- Listen to stereo music on powered speakers inside or outside the home.

Remote Control Extension Function:

- Control the A/V source from the remote TV's location using the A/V source's remote control.
- 4 channel frequencies lets you choose between channels for best reception.

LF- 30S gives you safety and security:

- Monitor your baby or children on any TV in your home using your camcorder or a miniature CCD security camera.
- See who is outside your door, in the backyard, on the playset or in the pool.

Simply connect the transmitter unit to any A/V source component you want to view or hear at another location, and then connect the receiver unit to the TV or powered speakers in that location.

Package Contents

The following items are included in the LF-30S box. Please check that they are all present before discarding the box and beginning the installation.

- 1 - LF- 30S Transmitter (Model LF-30STX)
Sends wireless A/V signals to the receiver
- 1 - LF- 30S Receiver (Model LF-30SRX)
Receives wireless A/V signals from the transmitter
- 2 - Audio/Video (A/V) cables
Connects the transmitter and receiver to your TV sets and/or A/V components
- 2 - Power adapters
Provides 15V DC power to the transmitter and receiver
- 1 - Coaxial cable with two type "F" connectors
- 1 - IR Extender

Controls and Features

The transmitter and receiver units look virtually alike but are labeled accordingly on the front of the units. However, the receiver can also be identified by the threaded RF coax connector labeled "TO TV" on the back panel.

A - Directional 2.4GHz antenna (both units)

Sends and receives A/V signals.

Caution: Do not attempt to rotate the antenna a full 360 degrees, or permanent damage to the antenna and mechanical stopper will occur.

B - Channel Selection Switch (both units – underneath unit)

Both the transmitter and the receiver must be set to the same channel for proper operation.

C - On/Off Switch (both units)

Turns the transmitter and receiver on or off.

D - 15V DC Power Port (both units)

Both adapters are the same and are interchangeable.

E - Audio/Video Jacks (both units)

Right and left stereo audio (red/white) jacks and a composite (yellow) video jack are used for connection to A/V components and/or TV sets.

F - RF Connector (receiver only)

Used to connect the RF output from the receiver unit to the RF input of a TV set.

G - Channel 3/4 Video Selector Switch (receiver only – underneath unit)

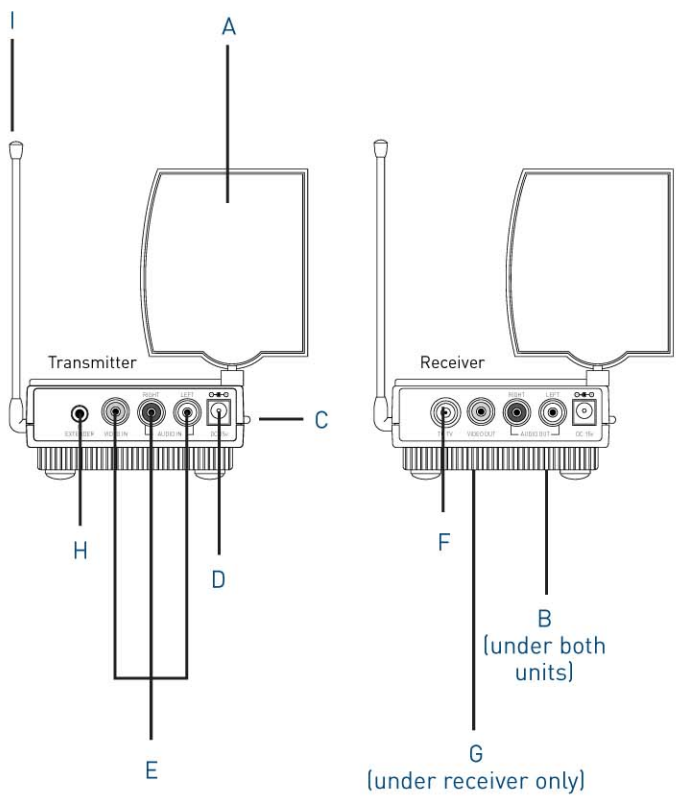
Set the output of the receiver unit to either channel 3 or 4, to correspond to the TV channel you wish to watch the A/V source video on.

H - IR Extender Jack (transmitter only)

Allows you to remotely control the A/V source that is connected to the transmitter.

I - Antenna (both units)

Sends and receives remote control signals.



Connecting the Transmitter to a Video Component

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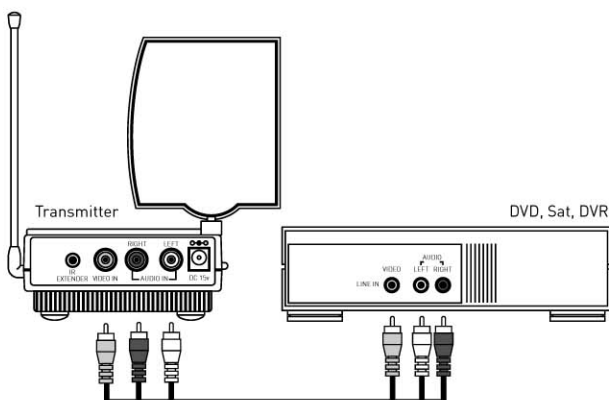
Connecting the transmitter to a video component such as a DVD player, satellite receiver, VCR, PVR or camcorder.

1. Make sure the transmitter's On/Off switch is "Off."
2. Connect one set of red, white and yellow A/V cables from the A/V jacks on the back of the transmitter to the LINE OUT A/V jacks on the back of the A/V device.

Be sure the red, white and yellow plugs on the A/V cables match the red, white and yellow jacks on both the transmitter and the A/V device.

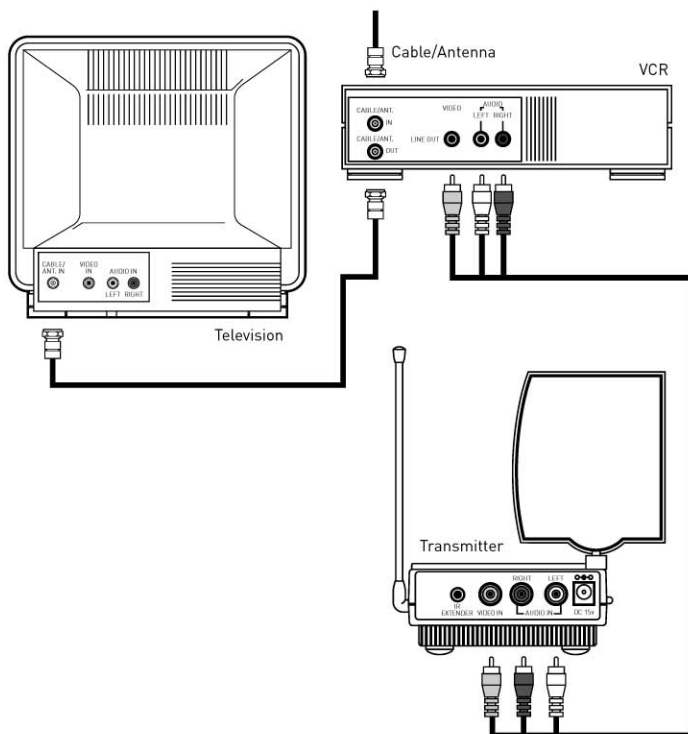
If the A/V device has only one output for audio (mono sound only); connect the white plugs on the cable to that single audio output and to the transmitter's AUDIO LEFT jack.

3. Plug the small end of the power adapter into the back of the transmitter and the other end into a standard A/C wall outlet. Turn the On/Off switch to the "On" position.
4. Make sure the receiver and transmitter units are set to the same channel.
5. Locate and orient the transmitter unit according to the "Orienting the Transmitter and Receiver Units" (page 14) section of this manual.



VCR users:

If you want to view your VCR on a TV located near the transmitter, connect a coaxial cable (not supplied) from the CABLE/ANT OUT (or OUT TO TV) on the VCR to the CABLE/ANT IN port connector on your TV.



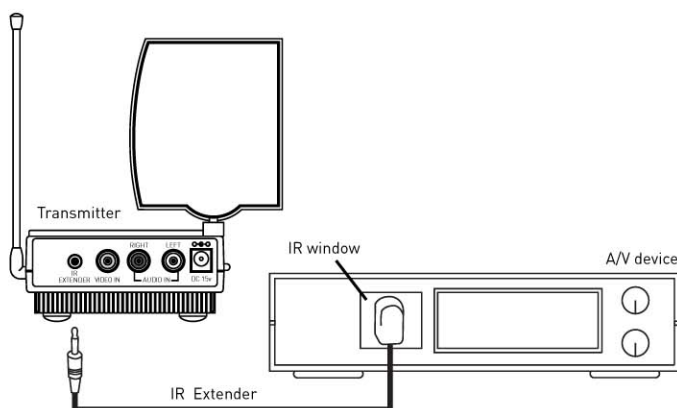
Connecting and Using the IR Extender

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The IR extender allows you to remotely control the A/V device that is connected to the transmitter from the room you have the receiver located in.

Connecting the IR Extender:

1. Extend the thin antenna upwards.
2. Plug in the IR extender into the connector on the back of the transmitter.
3. Extend the IR extender cable to the front of the A/V device that is connected to the transmitter.
4. Locate the IR window (dark, nearly opaque plastic) on the A/V device connected to the transmitter. Look into the window and try to locate the IR receiver behind the plastic.
5. Remove the adhesive pad on the IR extender and adhere it to the window in front of the IR receiver on the A/V device connected to the transmitter.



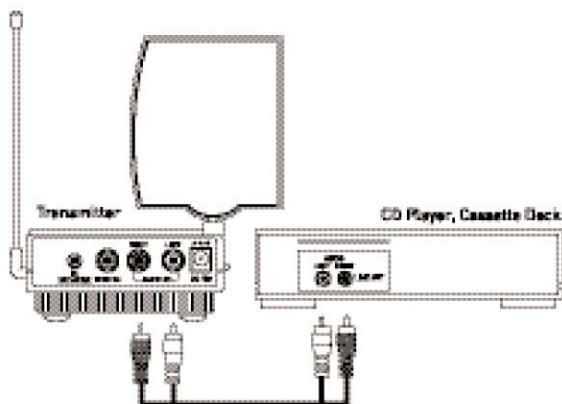
Controlling the A/V device remotely with your remote control: Operate the A/V source's remote control (the A/V device that is connected to the transmitter) as you normally do while pointing it at the receiver. The receiver wirelessly sends the infrared command to the transmitter which then transmits it via the IR extender to the A/V source device.

If you are having difficulty controlling the A/V device make sure that you verify that your IR extender is positioned correctly in front of the IR emitter on the device.

Connecting the Transmitter to Audio Components

To enjoy sound from your CD player, cassette deck or other audio component in another room, you can connect the transmitter directly to that component. To use this feature, you must connect either powered speakers, another stereo receiver, or an amplifier to the receiver at the remote site.

1. Make sure the transmitter's On/Off switch is "Off."
2. Connect one set of A/V cables from the red and white AUDIO IN jacks on the back of the transmitter to the LINE OUT audio jacks on the back of your audio component. Be sure the red and white plugs on the A/V cables match the red and white jacks on both the transmitter and audio component. (The yellow video plugs will not be used.)
3. Plug the small end of the power adapter into the back of the transmitter and the other end into a standard A/C wall outlet. Turn the On/Off switch to the "On" position.
4. Make sure the receiver and transmitter units are set to the same channel.
5. Locate and orient the transmitter unit according to the "Orienting the Transmitter and Receiver Units" (page 14) section of this manual.



Connecting the Receiver to a TV

After connecting the transmitter to your A/V source, you must connect the receiver to a TV or another component.

There are two ways to connect the LF-30S Receiver to a remote TV (a TV in a remote location away from the A/V source):

- 1 - Connected directly to the remote TV
- 2 - Connected directly to a VCR, which is then connected to the TV

Note: If your TV has picture-in-picture (PIP) capability, you can also view any image sent by the transmitter (such as a sleeping baby monitored by your camcorder) in the small inset picture while enjoying other programming on the rest of the screen. Consult your TV owner's manual for instructions on using its PIP feature.

1. Make sure the receiver's On/Off Switch is "Off."
2. Connect one set of red, white and yellow A/V cables from the A/V jacks on the back of the receiver to the LINE IN A/V jacks on the back of the TV.

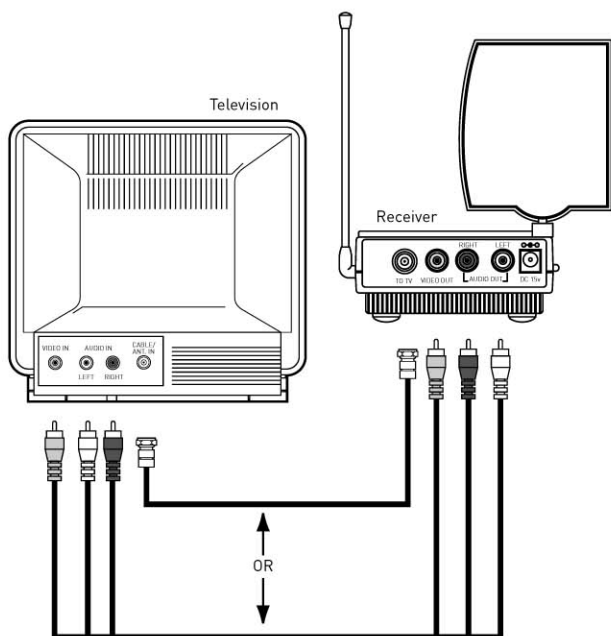
If your TV has A/V jacks (red, white and yellow for a stereo TV or only white and yellow jacks for a mono TV), connect one end of an A/V cable to the TV's A/V jacks and to end of the cable to the receiver.

Be sure the red, white and yellow plugs on the A/V cables match the red, white and yellow jacks on both the receiver and the TV.

If your TV has only one input for audio (mono sound only), connect the white plugs on the cable to that single audio input and to the receiver's AUDIO LEFT jack. If your TV does not have A/V jacks, use a coaxial cable to connect the RF output jack of the receiver to the coaxial input of the TV.

Note: If you already have an antenna or cable connected to your TV, use an A/B switch or modulator (not included) and additional coaxial cables to connect the receiver.

3. Plug the small end of the power adapter into the back of the receiver and the other end into a standard A/C wall outlet. Turn the On/Off switch to the "On" position.
4. Make sure the receiver and transmitter units are set to the same channel.
5. Locate and orient the transmitter unit according to the "Orienting the Transmitter and Receiver Units" (page 14) section of this manual.

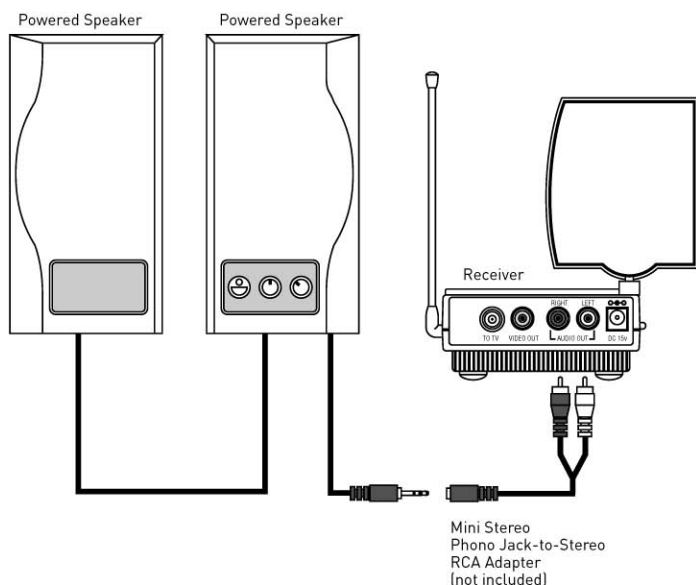


Connecting the Receiver to Powered Computer Speakers

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Since the LF-30S only receives stereo audio signals and does not amplify them; the speakers you use to listen to wireless sound must be self-powered or attached to an amplifier or stereo receiver.

1. Make sure the receiver's On/Off Switch is "Off."
2. Connect the speaker input cable from your powered speakers to a "Y adapter" mini phone jack adapter [3.5mm to stereo RCA plug - not included].
3. Connect the red and white plugs of the "Y" adapter to the red and white audio jacks of the receiver.
4. Plug the small end of the power adapter into the back of the receiver and the other end into a standard A/C wall outlet. Turn the On/Off switch to the "On" position.
5. Make sure the receiver and transmitter units are set to the same channel.
6. Locate and orient the transmitter unit according to the "Orienting the Transmitter and Receiver Units" [page 14] section of this manual.



Orienting the Transmitter and Receiver Units

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The LF-30S system broadcasts video and audio using the square directional antennas and your remote control signals using the whip antennas.

For optimum performance, both the transmitter and receiver antennas should be carefully oriented towards each other, and the whip antennas should be positioned vertically.

IMPORTANT: The square antennas are directional antennas – the textured side of each antenna should face towards each other.

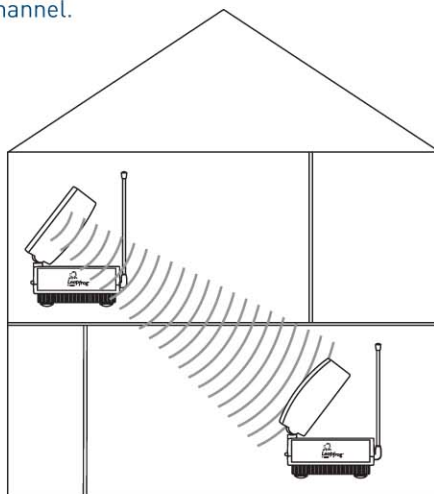
For best performance, the units should be placed as high as possible to minimize the possibility of interference from people walking between the transmitter and receiver.

Both the LF- 30S Transmitter and Receiver should be placed on a flat, stable surface to prevent damage from falling.

For maximum range between the transmitter and receiver units, try to minimize the number of obstacles between the transmitter and receiver units, such as your TV, other electronics, large furniture or appliances.

Note: Although the antennas have been designed to pivot, they have limited rotation in either clockwise or counter-clockwise directions. Do not try to force the antennas to move beyond their range of motion or permanent damage may result. Under no circumstances should you try to fully rotate the antennas.

Always make sure the receiver and transmitter units are set to the same channel.



Important:
The textured side of each antenna should face each other

Troubleshooting

Problem	Possible Solutions
No picture or sound	<p>Check that the power on/off switches on both the receiver and transmitter are both switched on.</p> <p>Make sure the receiver and transmitter's power adapter cords are firmly inserted into the units and into a power source.</p> <p>Check that the power to all components (DVD, VCR, TV etc.) in use connected to the receiver and transmitter are all turned on.</p> <p>Make sure that the receiver and transmitter are both set to the same channel.</p> <p>Check to make sure that the TV is set to the same channel (3 or 4) as the switch on the bottom of the receiver.</p>
Interference: Noisy picture or sound	<p>Adjust the receiver and transmitter's antenna orientation.</p> <p>Change the channels that the transmitter and receiver are using.</p> <p>If a microwave is on, turn it off.</p> <p>Move a microwave from between the path of the receiver and transmitter.</p> <p>Unplug a 2.4 GHz telephone from an electrical outlet.</p>

Specifications

Approvals: UL/CSA/FCC/ISC

Channels: 4

Operating Frequencies:

Channel A 2.413Ghz

Channel B 2.431Ghz

Channel C 2.45Ghz

Channel D 2.468Ghz

Channel Bandwidth:

18 Mhz

Care and Maintenance:

Clean the outside plastic housings with a soft cloth. Never use any type of abrasive scouring powder, cleaner or solvent.

Federal Communication Commission Interference 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 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.

FCC Caution: To assure continued compliance, any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

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

IMPORTANT NOTE:

FCC Radiation Exposure Statement:

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.

This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

Limited Warranty

TERK TECHNOLOGIES CORP. (TERK) warrants this product against defects in materials or workmanship for one year from the date of purchase. During this warranty period, this product will be repaired or replaced, at TERK's option, without charge.

Please read your instructions thoroughly and use this product only as directed. This warranty does not cover any damage due to commercial use, accident, misuse, abuse, or negligence. This warranty is valid only in the United States of America.

Repair or replacement as provided under this warranty is the exclusive remedy of the consumer. TERK shall not be liable for any incidental or consequential damages for breach of any expressed or implied warranty on this product, except to the extent prohibited by applicable law. Any implied warranty of merchantability or fitness for a particular purpose on this product is limited to the duration of this warranty.

For more information, visit www.terk.com or
for technical support, call 1.800.942.TERK (8375).

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