

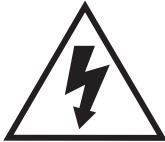


RELAY G70/G75

PILOT'S GUIDE ►

**MANUEL DE PILOTAGE
PILOTENHANDBUCH
PILOTENHANDBOEK
MANUAL DEL PILOTO
取扱説明書**

Important Safety Instructions



CAUTION
RISK OF ELECTRIC SHOCK
DO NOT OPEN



WARNING : TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT REMOVE SCREWS. NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

WARNING : TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THE APPLIANCE TO RAIN OR MOISTURE.

Radio Approvals: FCC Part 15.27, FCC Part 15 B, RSS-210 (Canada), RSS-310 (Canada), EN 300 400 (Europe), EN 301.489 (Europe), Japan Radio 2.4GHz Band (Japan), VCCI Digital Device Class B (Japan), CISPR 22 (Australia and New Zealand).

Certified under FCC Part 15.

The CE declaration of Conformity can be obtained at <http://line6.com/compliance/>

CERTIFICATION

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.

Warning: Changes or modifications not expressly approved in writing by Line 6 may void the users authority to operate this equipment.

RF Exposure Statement: This transmitter must not be co-located or operated in conjunction with any other antenna or transmitter.

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.

This Class B digital apparatus complies with Canadian ICES-003.

Cet appareil numérique de la classe B est conforme a la norme NMB-003 du Canada.

SERIAL NO: _____



You should read these Important Safety Instructions. Keep these instructions in a safe place



Before using your Relay G70/G75 Digital Wireless System, carefully read the applicable items of these operating instructions and the safety suggestions.

1. Obey all warnings in the Relay G70/G75 manual.
2. Do not perform service operations beyond those described in the Relay G70/G75 Manual. Service is required when the apparatus has been damaged in any way, such as:
 - Liquid has been spilled or objects have fallen into the apparatus
 - The unit has been exposed to rain or moisture
 - The unit does not operate normally or changes in performance in a significant way
 - The unit is dropped or the enclosure is damaged
3. Do not place near heat sources, such as radiators, heat registers, or appliances which produce heat.
4. Guard against objects or liquids entering the device. Do not use or place unit near water.
5. Do not step on cords. Do not place items on top of cords so that they are pinched or leaned on. Pay particular attention to the cord at the plug end and the point where it connects to the device.
6. Clean only with a damp cloth.
7. Only use attachments/accessories specified by the manufacturer.
8. Prolonged listening at high volume levels may cause irreparable hearing loss and/or damage. Always be sure to practice “safe listening.”

System Overview

- Best in class sound quality provided by:
 - 24 bit / 48kHz uncompressed digital transmission
 - Best in class DAC and ADC provide super low noise transmission (better than 120dB dynamic range)
 - Breakthrough low latency (< 1.5ms from analog input to analog output) nearly instant response between your fingers and your ears.
- Advanced wireless technology: Line 6 has been providing guitarists with the most advanced digital wireless systems for years, culminating with this 5th generation design.
- Built-in calibrated, quad-antenna array with advanced dual receiver topology
- 1/4" Locking jack input on bodypack - uses the locking plug provided or any 1/4" guitar plug you like
- A receiver designed to accommodate multiple guitar transmitters where switching is as simple as stepping on a footswitch (G70) or pressing a front panel button (G75). *Note: G75 supports optional remote footswitch as well.*
- Choice of compact stomp box or amp-top style receiver, for the utmost flexibility in cable routing and access to the user interface
- Two selectable 1/4" guitar outputs with configurable on/off, gain, and cable tone per guitar or scene
- Additional dedicated 1/4" "always on" output jack for direct connection to external tuners
- A breakthrough configurable XLR direct output > 120 dB dynamic range, 24 bit accuracy audio performance and wireless freedom
- 1/4" Auxiliary input jack on the receiver to connect a wired guitar for ultimate performance flexibility
- Use alkaline (provided) or rechargeable AA batteries (available separately)
- Rugged metal transmitter and receiver construction
- Advanced users guide can be downloaded from <http://line6.com/support/manuals/>

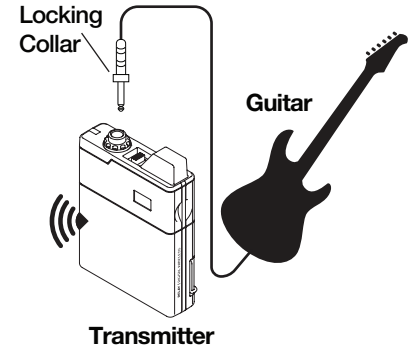
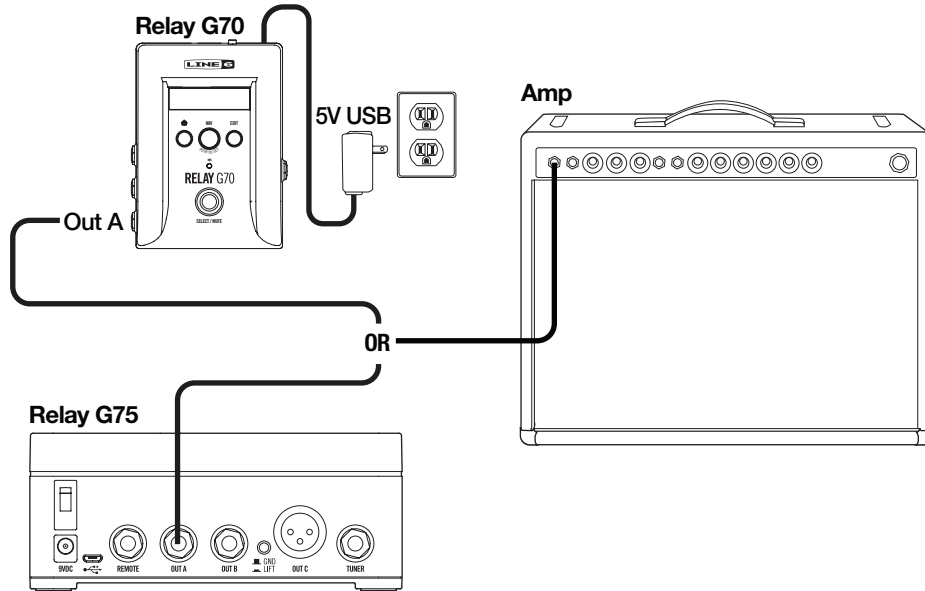
What's in the box:

- Relay TB516G Guitar Transmitter
- Stomp style receiver (Relay G70 only)
- Amp-top receiver (Relay G75 only)
- 24" Guitar Cable 1/4" to 1/4" Straight TS with collar lock
- USB-A to Micro-USB cable
- Universal USB Power Supply (5V-1A) kit with international AC adapter kit.
- Pack of 6 color coded transmitter ID hex nuts (green, blue, orange, purple, aqua, white: 1 each)
- 2 AA Batteries
- Quick Start Manual, warranty and End User License Agreement

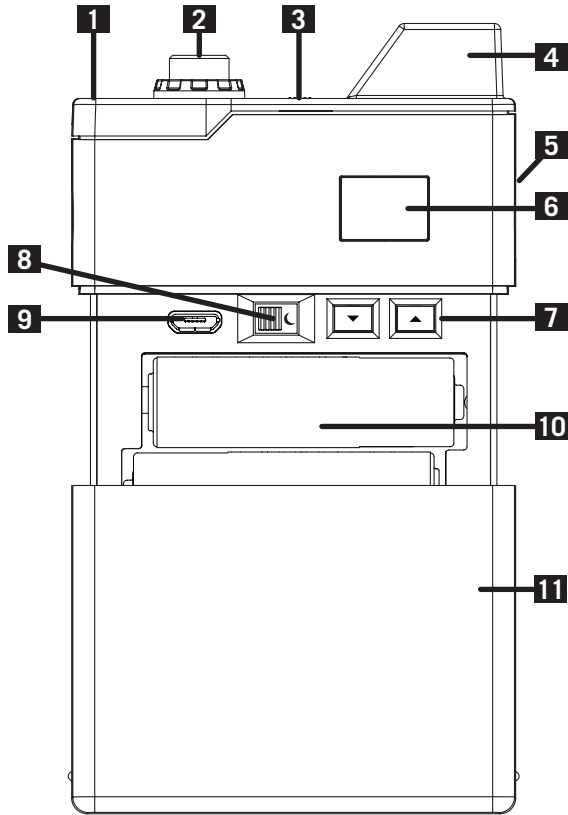
Suggested accessories:

- Additional Relay TB516G guitar transmitter for each guitar used
- Right angle guitar cable with locking plug.
- Replacement or spare straight guitar cable with locking plug.
- Custom Line 6 transmitter pouch
- Replacement transmitter belt clips
- Replacement transmitter ID hex nuts

Quickstart Hook Up Diagram



Transmitter Details

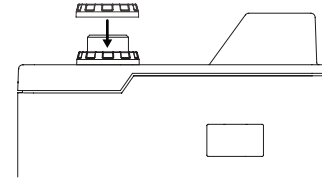


1. **Battery Status** – This LED illuminates green when the transmitter is powered on, and > 1 hour of battery operation time remains. Flashes yellow when < 1 hour, and flashes red when less than 30 minutes of battery operation time remain.

Note: Battery operation time is calibrated for 2x AA Alkaline batteries - actual times may vary when using non-alkaline batteries.

2. **Guitar Input** – Plug the included guitar cable here. To lock the cable, simply plug in the end with the locking collar and gently twist the collar so it threads onto the exposed thread of the transmitter's input jack, **DO NOT OVERTIGHTEN**. To unlock, spin the collar counter-clockwise and pull the plug out.

Note: You can use regular ¼" guitar cables as well.



Remove the existing black nut and replace it with one of the included 5 colored marker nuts

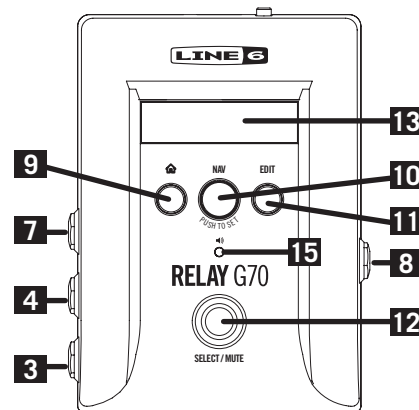
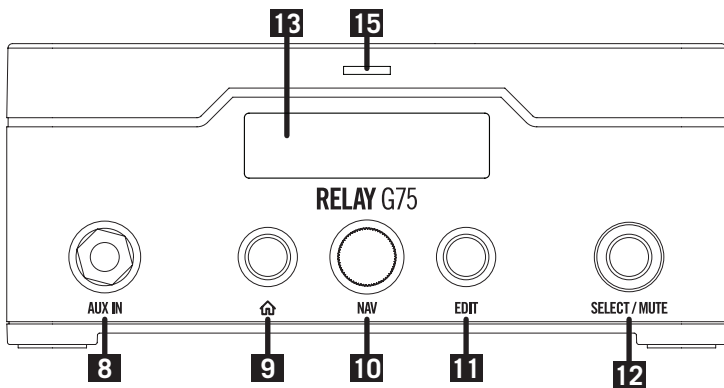
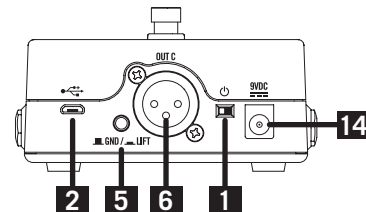
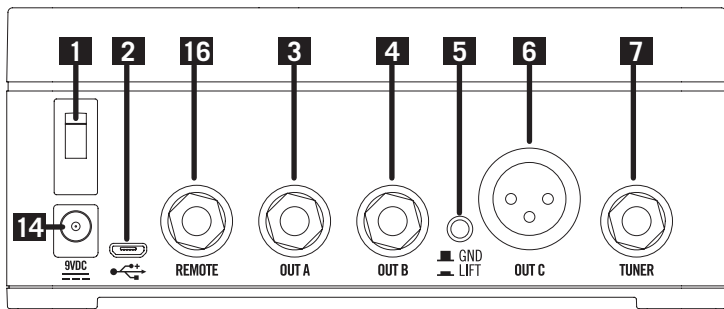
3. **Power On/Off** – Turns power on when working batteries are installed. The transmitter will automatically sync with the receiver in about 1 second.
4. **Antenna** – The calibrated internal antenna avoids damage or deformity in normal use. Avoid covering the antenna with metallic fabrics or accessories, and avoid direct contact with parts of the performer's body for best results.
5. **Battery Door Release** – Press on both sides of the transmitter at the same time to open the battery door. See #11 below for more details.
6. **Channel Display** – Channel 1-16 is indicated after pressing either channel select button (7).

7. **Channel Select** – Press the Up or Down button next to the channel display once to light the channel number indicator. Press either Up or Down to change the channel. The channel number will flash 2 seconds after the channel is selected indicating the channel change has been executed.

Note: The transmitted channel does not change while selecting the Up and Down buttons in order to avoid conflicting with other active transmitters.

8. **Auto-Sleep Switch** – Place the switch in the **⌂** position to enable this feature. If enabled the transmitter will automatically go into standby/sleep mode after two minutes without any movement or audio detected. With this feature on you can turn down your volume knob and place your guitar in a stand during set breaks and minimize your battery drain without having to turn the transmitter off.
9. **Micro USB** – USB connectivity used for firmware updates should they be needed in the future. Visit <http://line6.com/software/>
10. **Battery Compartment** – Requires two AA batteries for proper operation.
11. **Battery Door** – Slides open in 2 stops: 1st stop allows access to the channel selection buttons and sleep switch, the 2nd stop provides full access to removable batteries.

Receiver Details



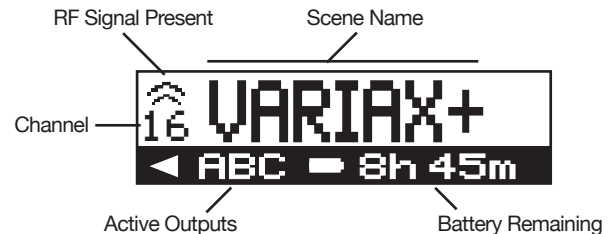
1. **Power** – Use switch to power the receiver on or off.
2. **Micro USB** – Use as primary DC (5VDC /1A) power and for firmware updates.
3. **Out A** – Is a 1/4" unbalanced, full performance output intended to drive a guitar/bass amplifier, stomp box or multi-effects inputs.
4. **Out B** – Same as Output A, can be used to connect a second amplifier or different signal chain through a pedal board.
5. **Ground Lift** – Disconnects pin 1 of the XLR Out C.
6. **Out C** – An XLR balanced output with ground lift. Perfect for connecting to PA, or other XLR inputs.
7. **Tuner Out** – 1/4" output with guitar level signal. The Tuner Out is always active and cannot be muted via scene control.
8. **Aux In** – Auxiliary Input for wired performance. If the Aux In mode is set to "Always On" the Aux In will be enabled whenever you select a scene and where the assigned transmitter is powered off or out of range. You can also assign the Aux In as an input for any scene from the New Scene menu.
9. **Home Button** – This navigation button returns the LCD to home screen display content.
10. **Nav/Select Encoder** – This is your primary navigation control. Rotate to choose a selection, push to activate the current selection.
11. **Edit Button** – Press to enter edit mode.
12. **Select/Mute Footswitch/Button** - Use to cycle sequentially through existing scenes. Hold for 2 seconds to Mute all outputs and/or activate internal tuner.
Note: Internal tuner is only available when nothing is plugged into Tuner Output.
13. **LCD Display** - Monochrome LCD displays scene settings including: active transmitter channel or input, active output routing, battery life. Displays settings for cable tone, gain, and preferences.
14. **9VDC Input** - Optional 9VDC 500mA DC.

15. **Audio LED** - Lights green to indicate audio reception. Lights red to indicate clipping.
16. **Remote (G75 only)** – Connect a momentary closed footswitch to provide foot operated scene changes similar to the footswitch on the G70.

Adding a New Transmitter Using Auto Scan

The G70/75 Receivers provide performers the ability to switch between multiple transmitters with the push of a switch. This is very helpful in allowing performers to switch instruments quickly and safely without having to worry about turning transmitters on and off. The procedure below will show you how to set up a new transmitter using the AUTO scan function:

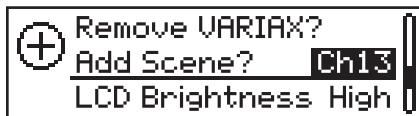
- In the Edit menu select ADD SCENE and press the encoder
- Rotate the encoder until AUTO appears and press the encoder
- The display will instruct you to turn the transmitter off so it can do a clean scan
- When the power is off on the new transmitter select NEXT and press the encoder
- The receiver will scan the spectrum, recommend a clean channel, then prompt you to turn on the transmitter and set the channel
- When finished select and press NEXT then OK to exit. Note you can select a channel directly without scanning as well (see "Adding a New Transmitter Manually").



Adding a New Transmitter Manually

The G70 and G75 Receivers provide performers the ability to switch between multiple transmitters with the push of a switch. This is very helpful in allowing performers to switch instruments quickly and safely without having to turn transmitters on and off. The only requirement for this workflow is that each of the transmitters be on a separate channel. The steps below will show experienced wireless users how to set up a new transmitter using the manual mode (no scan):

- In the Edit menu select “**Add Scene?**” and press the Encoder.
- Turn the Encoder to select the desired channel.
- Press the Encoder to add the new Transmitter and create a new scene.



Adding New Scenes for a Single Transmitter

The user interface for the G70 and G75 is designed to allow performers to make quick input and output changes via a single switch or button. Each scene stores a unique combination of input sources (Transmitter 1- Transmitter X, plus Aux In) and output destinations (Output A, B, C or any combination of A, B and C at the same time (see Edit Menu section for details). To add a new scene for an existing Transmitter, follow the instructions for “Adding a New Transmitter Manually” and set the channel to the same number in each scene. Use the EDIT menu to make any changes in gain, cable tone or output routing for the new scene. You can also rename each scene to help you remember what it is for.

To make sure you have Channels available on stage when other Line 6 wireless gear is used, try the following settings.

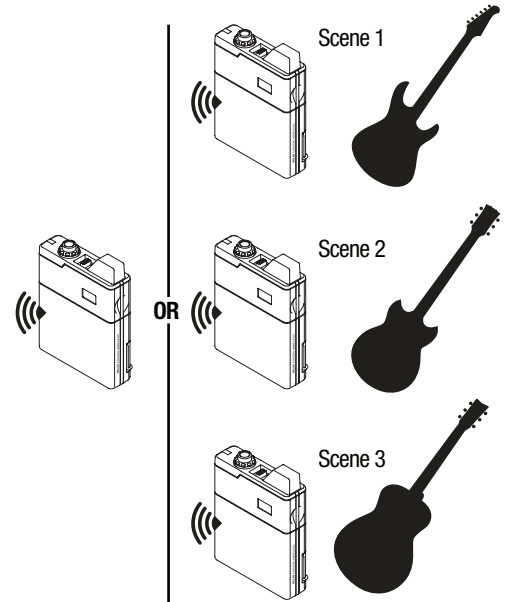
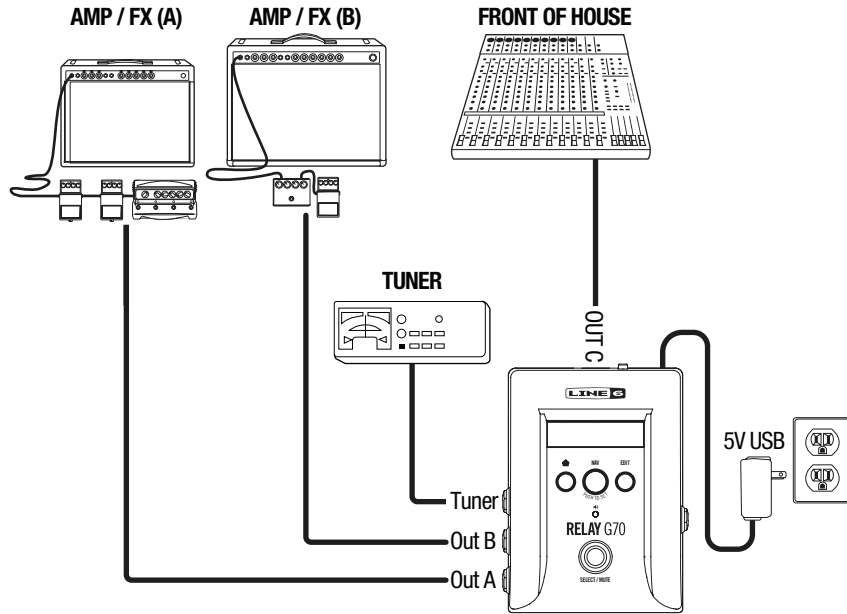
Set Relay G70/75 Channels:	Relay G30/50/55/90 & XD-V 30/35/55/70/75 Available Channels:
1	2, 3, 5, 7, 10, 13, 14
1, 2	6, 7, 10, 13, 14
1, 2, 3	6, 7, 10, 13, 14

System Specifications	
Range	> 200 feet Line-of-site outdoors.*
Latency	< 1.5ms
Frequency Response	10-20kHz, +1dB / -3dB
THD + Noise	< 0.05% (1kHz @ -10dBFS)
Dynamic Range	>120 dB A weighted
Operating Band	2.4 GHz ISM Worldwide
Operating Temperature	-10°C to 50°C

*Note: Actual range is dependent on RF environment, including reflections, interference and absorption.

Advanced users guide can be downloaded from
<http://line6.com/support/manuals/>

G70 Detailed Hook Up - 2 Signal Chains plus Direct to PA



IC- 6768A-TB516

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