

BackTrack[®] Series

Pilot's Guide
Manuel de pilotage
Pilotenhandbuch
Pilotenhandboek
Manual del Piloto



Register and Get Free Stuff

Included with BackTrack is a handy, postage-paid card for you to send back to us to register your purchase. It is very important you either fill that card out right now and send it in the mail, or register online at www.line6.com/register. You'll be all set up for warranty service should you have a warranty issue, and you'll also enjoy all the benefits of the Line 6 All Access offerings.

LINE 6 ALL ACCESS

Sign up today and get access to special offers, contests, software updates and more!



www.line6.com/manuals

Select BackTrack in our online manual archive to download our Advanced Guide, as well as any updated version of this Pilot's Guide that may be released.



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



Before using your BackTrack, carefully read the applicable items of these operating instructions and the safety suggestions.

1. Obey all warnings in the BackTrack Pilot's Guide.
2. Do not perform service operations beyond those described in the BackTrack Pilot's Guide. 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.
4. Do not place near heat sources, such as radiators, heat registers, or appliances which produce heat.
5. Guard against objects or liquids entering the device. Do not use or place unit near water.
6. 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.
7. Always switch to OFF and unplug the guitar cable when not in use for extended periods of time for extended battery life.
8. Clean only with a damp cloth.
9. Only use attachments/accessories specified by the manufacturer.
10. Prolonged listening at high volume levels may cause irreparable hearing loss and/or damage. Always be sure to practice "safe listening."

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. 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 UNDESIRABLE OPERATION.

Welcome to BackTrack

BackTrack makes it easy for you to capture and replay any moment of musical inspiration, without preparing to record it in advance.

BackTrack can constantly capture everything you play to its internal Flash memory. It notices when you start and stop playing, and automatically splits out individual audio events for each of these musical moments.

This makes it easy to mark individual events as ones that you want to save and return to. After one of these happens, press the MARK button, and BackTrack will mark this as something important that it will keep. Press the play button, and you can hear that event played back again, giving you instant replay for inspiration.

It's also easy to select any other marked event to play back. Playback can be looped, so you hear one particular event over and over again, while you jam on other ideas to go with it. You can also choose to review all the audio in BackTrack's memory, just in case there was some other recent moment that you didn't mark, but want to return to.

Connect BackTrack to your computer, and you've got access to all these audio events as individual .WAV files. There's one folder for the MARKED events, and another folder for the UNMARKED ones. The MARKED files will never be erased by BackTrack, unless you remove them yourself while connected to the computer. The UNMARKED files may be deleted by BackTrack when it needs to make room to capture newer audio events.

Make copies of the files on your computer to build up a library of inspiration, burn them to CD, or convert them to MP3 to share them with your fans or collaborators. You can play them in your favorite audio software, and even load them into your recording software as a foundation for a fuller recording of your ideas.

You can also put other .WAV files in the USER folder on BackTrack to have them available for playback away from your computer.

The included software lets you choose the quality settings that will be used for audio capture. BackTrack supports CD-standard 44.1 kHz, 16 bit quality, as well as settings up to 48 kHz, 24 bit. Choose lower settings to increase recording capacity, or higher settings for pristine audio quality. (See pages 9 thru 12 for details.)

For added versatility, BackTrack also includes these features:

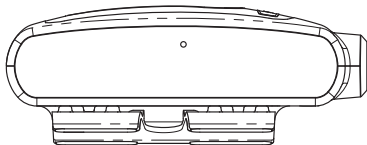
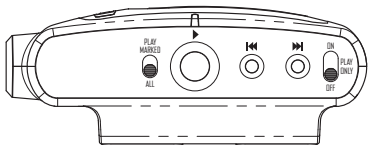
- Flip the switch to PLAY ONLY for those times when you don't want auto capture
- Forced Capture lets you use BackTrack as a regular recording device, for planned recordings (see page 4)

Ready to learn more? Flip the page... and look for **i** to indicate other "hidden" features.

Side Panels & Connections

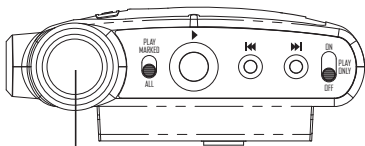
BACK←TRACK

- No mic or stereo output

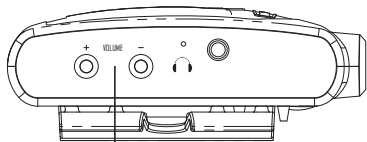


BACK←TRACK+MIC

- Includes mic & stereo output



Microphone



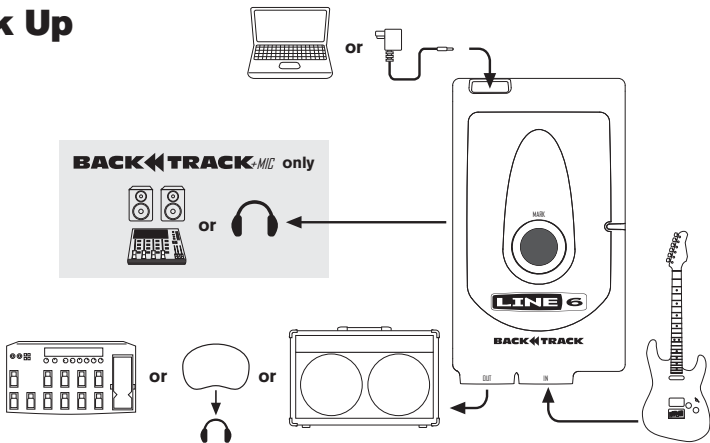
Stereo/Headphone Out

- Volume adjust affects this output only
- This jack receives playback of audio captured from mic as well as **IN** jack
- The **OUT** jack is disabled (does not output audio) when the stereo/headphone jack is connected

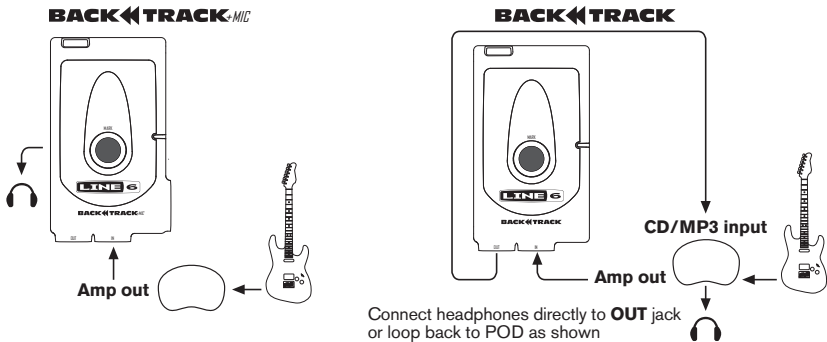
Capture Source for BackTrack + Mic

- Disconnect **IN** jack to use the mic to capture audio.
- **IN** jack will always be used as source for audio capture if connected.

Hook Up



Alternate Hookups to Record and Playback Processed POD audio



Audio Capture

Prepare to auto capture from guitar input

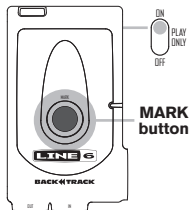
- Connect your guitar, electric acoustic or bass to **IN** jack

Prepare to auto capture from mic (supported by BackTrack + MIC only)

- **Do NOT connect IN jack** (when connected, it is used to capture input source instead of mic)
- Please note: other significant noise (like a TV) in the room may prevent accurate auto-separation of events

Let BackTrack capture and separate musical events as you play

- Set OFF/PLAY ONLY/ON switch to **ON**: light is white while starting up
- Light blinks blue to tell you BackTrack is ready to capture
- Start playing music
- Light is continually lit when capturing an audio event (see page 8 for details)
- Light blinks rapidly several times when the end of an audio event is detected
- If that last event was a “keeper,” press **MARK** button to mark it



Configure auto capture settings

- Connect BackTrack to computer via USB and launch BackTrack Setup Utility software
- You can enable/disable auto capture separately for the guitar and mic inputs
- You can adjust the settings used for auto capture separately for the guitar and mic inputs

1 Forced capture

- Connect your guitar, electric acoustic or bass to the **IN** jack
- Or to use mic as capture source (for BackTrack + MIC only), do NOT connect IN jack
- While holding **▶ (play)**, also press **MARK**
- Light is red to indicate you're forcing a new marked event to be captured
- Press **MARK** to end the event

Adjust mic levels

- The BackTrack Setup Utility software lets you fine tune mic capture settings, including capture volume
- To temporarily increase audio capture volume, hold **▶ (play)** and also press headphone volume +
- To temporarily decrease audio capture volume, hold **▶ (play)** and also press headphone volume -
- When you power BackTrack + Mic off, this temporary mic capture volume adjustment is defeated
- Automatic gain control (AGC) can also be enabled/defeated, using the BackTrack Setup Utility

Audio Playback

Prepare to hear playback

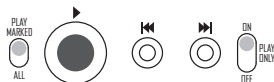
- For audio captured direct from a guitar's output, connect **OUT** jack to your amp, POD etc. like a stomp box, before any other stompboxes, so it feeds signal to your setup just like your guitar does
- Or connect **Ⓞ** (**headphone output**) to headphones or full range amp/speaker system (not a guitar amp) to hear playback. This is the preferred set up, for instance, if you've recorded from the mic.

Choose to play back only marked events, or all audio

- Set PLAY MARKED/ALL to **PLAY MARKED** to hear only marked events when playing back
- Set PLAY MARKED/ALL to **ALL** to hear all audio, including marked and unmarked, when playing back

Select audio events for playback

- Press **▶** (**play**) to hear the most recent audio event
- Press **⏮** (**back**) once to reset play to start of current event
- Press **⏮** (**back**) repeatedly to play previous events
- Press **⏮** (**back**) from first event to play last event
- Press **▶** (**forward**) to play next event
- Press **▶** (**forward**) from last event to hear first event



Loop playback

- The BackTrack Setup Utility software lets you enable or disable looped playback
- When enabled, when the end of an event is reached during playback, it will immediately play again
- To temporarily enable/disable loop playback, hold **▶** (**play**) and press **⏮** or **⏭**
- When you power BackTrack off, this temporary override of loop enable/disable is defeated

i Capture audio playback as new marked event

- While playing back audio, press and hold **MARK** to begin capturing a new copy of the audio being played back, as a new marked event
- Release **MARK** at the end of the desired event
- Press **▶** (**play**) to hear playback of that newly copied and marked audio event

Status Light

Colored Status indicator light

- The color of the BackTrack light tells you the current type of operation or status

Charging While Off or Mounted on Computer

- When switched **OFF**, or connected to computer via USB, audio capture or playback is not available
- When charging in this state, color indicates progress toward full charge, as follows
- Red (0-25% charge), orange (25-50%), yellow (50-75%), green (75-100%), white (full charge)

White: Startup/Shutdown/Busy

- Light will be continually white while starting up or shutting down
- Light will blink white while busy and unavailable for other functions

Blue: Auto Capture

- Flashing dark blue indicates ready to capture, but not capturing yet
- Continually dark blue indicates audio that will be captured if it continues long enough
- Pale blue confirms audio has continued long enough, and continues to be captured
- Light blinks pale blue rapidly several times to indicate end of captured event

Red: Forced Capture or Mic Clipping

- Red indicates forced capture (see page 5) or capturing playback as new marked event (see page 6)
- Light blinks rapidly several times to indicate end of capture
- During mic capture, the light will be red if clipping (overly loud audio) occurs

Green: Playback

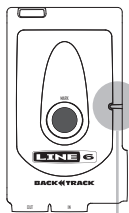
- Light is green during playback, and blinks when in Play Only mode, but not currently playing
- When looped playback is enabled, color slowly fades between light green and dark green while playing

Purple: Low Memory

- Occasional purple blink means less than 30 minutes remaining, and double blink means less than 15 minutes

Yellow: Low Battery

- An occasional yellow blink indicates low battery charge (approximately less than 1 hour of operation)
- Light will fade from yellow to red and flash rapidly just prior to the battery being completely discharged



Status
Light

Computer

Connected to computer

- BackTrack will automatically charge its battery and mount as a mass storage device (appears on your computer like a CD-Rom, Flash Drive, etc.) when its USB jack is connected to a computer
- While mounted, normal BackTrack operation is defeated: audio capture and playback are disabled
- To unmount from Windows®, click “safely remove hardware” icon in your onscreen System Tray, and remove BackTrack. If unsuccessful, quit Backup Setup Utility, close all files, and disconnect USB cable to unmount.
- To unmount from Mac®, drag BackTrack icon to trash (eject icon replaces trash icon as you are dragging)

BackTrack Setup Utility

- For Windows, install BackTrack Setup Utility by launching installer available from BackTrack when mounted on computer
- For Mac, a disk image (a .dmg file) is provided: double-click it to mount a disc image that contains the BackTrack Setup Utility, which you can then drag to your computer to install
- Set date and time from utility software so files created by BackTrack will have accurate date/time information

Windows Requires .NET Framework 2.0 or Higher

The Windows version of the BackTrack Setup Utility requires the Microsoft .NET Framework version 2.0 or higher. This is included in the BackTrack Setup Utility Installer, available for download from www.line6.com/software, and on BackTrack, accessible from computer when mounted via USB. Microsoft .NET Framework version 2.0 can also be installed using Windows Update or by installing the "Windows Installer Redistributable" version 3.1 or higher and the ".NET Framework Version 2.0 Redistributable Package" which are available for download from Microsoft's web site.

Files

- BackTrack stores audio as .WAV files
- The BackTrack **MARKED** folder/directory holds all marked audio
- The BackTrack **UNMARKED** folder/directory holds the other captured audio that was not marked
- Drag any of these audio files from **MARKED** or **UNMARKED** to your computer to copy/backup
- Double-click any of these audio files to play in your default audio player software
- To have additional .WAV's available for playback from BackTrack, put them only in the **USER** folder/directory
- Files stored in the **UNMARKED** folder/directory may be deleted by BackTrack during normal operation
- Files stored in the **MARKED** folder/directory are never deleted by BackTrack during normal operation
- BackTrack can play properly formatted mono or stereo .WAV files that are:
 - 16 or 24 bit word length
 - 11, 22, 32, 44.1 or 48 kHz sample rate

Files (continued)

- BackTrack can not play files such as .mp3, .m4p, .AIFF, compressed or .WAVs that don't match the file options listed on the previous page

Sample Rates Over 48kHz

- Attempting to play a .WAV file created at a sample rate higher than 48kHz may cause that file to play at odd speeds, etc.

Audio Files Created By BackTrack

- Files created by BackTrack will be named beginning with "BT", followed by a 5 digit number, then "G" (if the audio was recorded from 1/4-inch guitar input) or "M" (if the audio was recorded from mic), then ".WAV".

Erasing Files

- You can erase files while BackTrack is mounted on a computer to free up space for additional audio capture
- Copy these files to your computer first if you do not want to lose them permanently
- After installing the utility software, you can delete those files from BackTrack to maximize audio capacity

Storing Other Files On BackTrack

- You can store other files on BackTrack, to transport them between computers. If you want to do this, we recommend that you create a "MY FILES" folder at the top level "root directory" of BackTrack (the same location that holds the MARKED and UNMARKED folders). Place your other files in that folder. This will help ensure that you don't get these files confused with the files that BackTrack creates. No matter where you put files, they should be ignored by BackTrack, and not deleted, etc. even if they are in the UNMARKED folder.

Firmware Updates

- The latest firmware for your BackTrack is available for download from www.line6.com/software. To update your BackTrack's firmware:
 1. Download the firmware file to your computer
 2. Click the **Update Firmware** button on the **BackTrack Setup Utility** (as illustrated on page 13)
 3. Locate the firmware file you just downloaded using the **Open File** window that is provided
 4. Follow the onscreen instructions to complete the update

Guitar And Mic Auto Capture Presets

The following Guitar And Mic Auto Capture Presets are available from the BackTrack Setup Utility:

GUITAR PRESETS

Electric Guitar/Bass

Auto Capture – Soft

Min Event – 2 sec

Min Silence – 1 sec

Active Bass/Noisy Guitar

Auto Capture – Medium

Min Event - 2 sec

Min Silence – 1 sec

Guitar through POD or FX

Auto Capture – Loud

Min Event - 2 sec

Min Silence – 2 sec

MIC PRESETS

Soft/Acoustic

Auto Capture – Medium

Min Event – 1 sec

Min Silence – 1.5 sec

Mic Gain – 5

AGC - Off

Med/Electric

Auto Capture – Medium

Min Event – 1.5 sec

Min Silence – 2 sec

Mic Gain – 5

AGC - Off

Loud/Full Band

Auto Capture – Loud

Min Event - 2 sec

Min Silence – 2 sec

Mic Gain – 2

AGC - Off

BackTrack Setup Utility

1: Record/Playback Settings

- Lower sample rates/bit depths allow more recording time, and higher settings increase audio quality
- See page 14 for possible settings
- The maximum possible recording capacity is calculated for the rate/depth settings you choose
- Checkbox enables looped playback, so an event loops as it plays (see page 7)
- Click **Show files** to show the BackTrack directories/folders in Windows® Explorer or Mac® Finder

2: Device Information

- This is your firmware version: always include it in communication with Line 6 Customer Support
- Auto-Shutdown can be enabled to conserve battery when BackTrack is left on, but not capturing
 - If no audio is detected within the time you select, BackTrack powers off: indicator light will be off
 - To again use BackTrack, you must move the Off/Play Only/On to **Off**, then to **On** or **Play Only**
- Press Set Date/Time to set the clock in your BackTrack to match your computer's date/time
 - Follow the instructions that will be shown onscreen
 - New files created by BackTrack will then show the proper creation date/time when viewed on your computer

3: Guitar Auto Capture

- Presets configure the auto capture settings for the **IN** jack
- Selecting **Off** for Auto Capture prevents auto capture from the **IN** jack
- Selecting **Soft** for Auto Capture allows low level audio to trigger auto recording
- Selecting **Medium** for Auto Capture requires medium level audio to trigger auto recording
- Selecting **Loud** for Auto Capture requires high level audio to trigger auto recording
- An audio event will be not be captured if shorter than the **Discard events** setting
 - When auto capturing, light is dark blue until this time is exceeded
- An event ends when the audio level drops below the Auto Capture level, for at least the **Split** time
 - When auto capturing, light blinks rapidly to indicate the end of an event

4: Mic Auto Capture (settings apply to BackTrack + Mic only)

- The mic can be configured for auto capture like the **IN** jack
- There is also a **Gain** setting for increasing/decreasing the mic preamp level
- Enable AGC (Auto Level) to allow mic preamp gain to be auto adjusted in response to incoming audio, but note that this may reduce the ability of BackTrack to split events during auto capture



Quit

Restore Defaults

Record/Playback Settings

Sample rate

Bit depth

Max Possible Audio Capacity: 6h:13m

Show files

Loop each event when playing

Device Information

Firmware Version: 1.0.1



Never Auto Shutdown

Never

Set Date/Time

Update Firmware



Guitar Capture Preset

Electric Guitar/Bass



Microphone Capture Preset

Soft/Acoustic

Auto Capture

Discard events shorter than 2.0 sec

Split events after 1.0 sec of silence

Auto Capture

Discard events shorter than 1.0 sec

Split events after 1.5 sec of silence

Gain

8

AGC (Auto Level)

Off

Power/Capacity/Troubleshooting

Internal rechargeable battery

- Provides 8+ hours of operation on a full charge
- Charges via USB connector
- Set OFF/PLAY ONLY/ON switch to **OFF** to power unit off when not in use, to preserve battery charge

Powering via USB

- BackTrack includes a mini-B 5-pin USB connector
- Can be powered from computer USB jack, or a power adaptor that supports the mini-USB charging standard
- Allows continual use without discharging battery, and charges battery at the same time
- When BackTrack is connected to your computer it will recharge the unit, allow file transfer, and interact with the BackTrack Setup Utility - but normal recording and playback will be suspended

Capacity

- The BackTrack Setup Utility software lets you select sample rate, bit depth and other audio capture settings

BackTrack + Mic	BackTrack	Sample Rate	Bit Depth	Notes
24 hours	12 hours	11 kHz	16 bit	*
12 hours	6 hours	22 kHz	16 bit	*
8 hours	4 hours	32 kHz	16 bit	
6 hours	3 hours	44.1 kHz	16 bit	CD audio standard
5 hours	2.5 hours	48 kHz	16 bit	
4 hours	2 hours	44.1 kHz	24 bit	
4 hours	2 hours	48 kHz	24 bit	

* These settings are not recommended for mic full range audio, but may be sufficient for direct guitar

Colored Lights

- If your unit fails to operate normally, it may show a series of colors to help in diagnosing the problem

High volume audio can cause constant recording while auto capturing

Auto capture relies on periods of low volume to detect when a musical event ends. If audio always continues at a high level, it may never detect the end of an event, and may continue recording continuously. You may be able to improve this situation by setting the Auto Capture value to Loud in the Backtrack Setup Utility.