



LOW DOWN STUDIO 110

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

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



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

1. Obey all warnings on the amp and in the LowDown Studio 110 Manual.
2. Connect only to AC power outlets rated 100-120V or 200-240V 47-63Hz (depending on voltage range of the unit; refer to back panel).
3. Do not perform service operations beyond those described in the LowDown Studio 110 Manual. Service is required when the apparatus has been damaged in any way, such as:
 - power-supply cord or plug is damaged
 - 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. The bottom of the metal chassis can get hot during operation. Do not touch during operation or shortly after.
5. Do not place near heat sources, such as radiators, heat registers, or appliances which produce heat. Keep the rear of the unit at least three inches from walls or other items that might block heat radiation.
6. Do not block any of the ventilation openings or use in an enclosed space.
7. Guard against objects or liquids entering the enclosure. Do not use or place unit near water.
8. Do not step on power cords. Do not place items on top of power 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 amp.
9. Unplug the amp when not in use for extended periods of time. Unplug the amp during lightning storms.
10. Clean only with a damp cloth.
11. Do not defeat the safety purpose of the grounding type plug. A grounding type plug has two blades and a third grounding prong. The third prong is provided for your safety. When the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
12. Only use attachments/accessories specified by the manufacturer.
13. Prolonged listening at high volume levels may cause irreparable hearing loss and/or damage. Always be sure to practice “safe listening.”

CAUTION: This equipment has been tested and found to comply with the limits for a Class B digital device pursuant to Part 15 of 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: To reduce the risk of fire or electric shock, do not expose this appliance to rain or moisture.



The exclamation point within a triangle means “caution!” Please read the information next to all caution signs.

CAUTION: To reduce the risk of fire or electric shock, do not remove screws. No user-serviceable parts inside. Refer servicing to qualified service personnel.



The lightning symbol within a triangle means “electrical caution!” It indicates the presence of information about operating voltage and potential risks of electrical shock.



This symbol within a triangle means “caution! hot surface!” It is placed in areas that may become too hot to touch when device is in operation.

LOW DOWN STUDIO110

INPUT



CLEAN

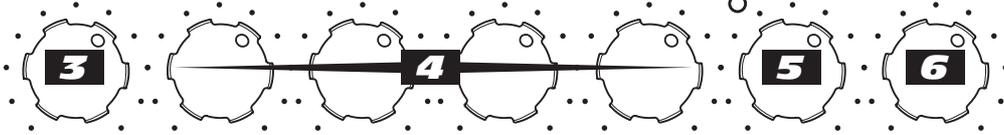
R&B

ROCK

GRIND



7
CD/MP3



THRESHOLD

DRIVE

BASS

LO-MID

HI-MID

TREBLE

OPTO COMP

MASTER

SYNTH

CUTOFF

RESONANCE

ENVELOPE

ATTACK/DECAY

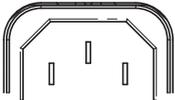
WAVEFORM



POWER REQUIREMENTS

120V ~
50 - 60Hz
300 W Max.

11
POWER



PREAMP
OUT

GND
LIFT



CABINET
SIMULATED
DIRECT OUT



1. Input and -10 dB pad button – Plug in and start with the pad in the up/passive mode. If your bass's output distorts the input section, switch to the down/active mode. A “passive” instrument has no built-in preamp and does not use a battery. An “active” bass utilizes a battery operated preamp.

2. Amp Models – Select one of these buttons to select one of 4 groovealicious Amp Models or hit R&B and Rock together to get Synth Bass and all the LowDown controls will automatically dial in to sound great, so you can just play! These buttons come pre-loaded with great factory presets but can be used to save your own custom settings.

3. Drive - is like the volume or gain knob on other amps; controls how much “dirt” you get in your sound.

4. Tone Controls – Bass, Low Mid, Hi Mid and Treble controls are customized for each Amp Model to give you optimal tonal control.

5. Opto Comp - Turn clockwise to even out your playing dynamics (more compression). Watch for the Threshold light, and set the knob so that it comes on just at the point where you play with your typical intensity.

6. Master Volume - You can choose the overall volume of the amplifier, without affecting your tone.

7. CD/MP3 – Plug in any audio source and it feeds directly into the LowDown's speaker or headphones so you can jam with your favorite music or a drum machine. Use the input device's output control to adjust its volume.

8. Headphone - Listen with headphones to your LowDown mixed with what ever you would like to input into the CD/MP3 jack.

9. XLR Direct Out – This gives the sound man a simulation of a miked cabinet that is model specific. To the left of the input is a ground lift.

10. Preamp Out – Plug in here to send your sound to an external bass amp, power amplifier, mixing console, or house PA system.

11. Power – on or off. The amp sounds better on.

Here's the LowDown...

Hey. Thanks for choosing the Line 6 LowDown. We're excited to welcome you to the Line 6 community. We've spent tons of time dialing in your new amp with artists and technicians to deliver a fabulous range of critical bass tones. The LowDown was inspired by some classic bass amps that shaped the tone of rock and roll such as the Ampeg® SVT®, Ampeg® B-15, and the Marshall® Super Bass - amps that deliver tone that will rearrange your insides. These were, and still are the standard for professional bass players the world over. Unfortunately, many of them are incredibly heavy and can very quickly empty your checking account or max out your credit card, so most of us working stiffs gravitate to one of many fine portable utility combo amps with fairly generic tone . Until now...

With LowDown we have worked hard to bring to you, for the first time, serious stadium bass rig tone in a portable/affordable combo. We have spent countless hours modeling the best of the best and faithfully reproducing them on the very amp you're probably sitting on or fondly staring at right now. Whether you are looking for that mind bending funk tone or that classic rock tone heard 'round the world, Line 6's LowDown brings it to you. The endless search for the perfect small gigging amp has come to an end... Now let's get started!

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Some sage advice...

Here are a couple bits of wisdom that will hopefully make your LowDown Studio 110 experience a happy and productive one.

- TAKE ONLY WHAT YOU NEED! We have designed the LowDown Studio 110 to give you the ability to do just that. When a bass player takes the industry standard behemoth into a studio, 95% of the time the engineer only mikes up only one of the 8x10 speakers anyway. While the Studio 110's D.I. is ready to make any engineer feel waves of joy, some old school cats still want to mike up the cabinet and feel the air in the track. That is why we have built a 1x10 combo and sound designed it to, when miked up, give you that behemoth sound without breaking your back or your bank.

- But wait, there's more!!! With the preamp out, we have given you the ability to customize your favorite tones from your favorite amps and take it on the road, so to speak. When gigging or rehearsing around town you just bring your bass and Studio 110 and use a guitar cable to come out of the preamp out and jack into the house or rehearsal studio rig. This is especially exciting for you urban musicians. Never again do you have to sacrifice tone for convenience. And for all you road rats that own reliable but plain sounding solid state rigs but wish for that tube sound, use the Studio 110 as the ultimate tube preamp for your stage rig while using the D.I. to send your signal to the sound guy. That way the audience will enjoy the exact tone you are enjoying on the stage.

Amp Model Details

Just as a great artist has many colors to paint with, you will be able to paint your music in many colors, thanks to the wide range of tone available in the LowDown. Each of these models, when selected, automatically dials up a great useable default sound that you can leave or change to your liking and save by pressing and holding the button for 2 seconds.

Some helpful hints

We have given you model specific tone controls. They react as the actual amp would in a given situation. For instance turning the treble up all the way is a very different experience on each model. We would suggest that you pull up an amp and start with these controls at 12 o'clock and the drive down, then decide what you want to hear from there.

If you want more low end, ask yourself if you want more round thick low end or do you want punchy low end. This will help you determine if you should add Bass or Low Mid to your sound. Sometimes adding Low Mid gives you the bottom you want with a punchier sound. The same goes for the high end. Are you looking for clarity for your note or a percussive attack? If you want clarity many times Hi Mid will give that to you without adding the percussive attack.

Experiment with the tone controls because we have given you a range of tone that has never been available in a combo before.

Drive

This control is used to overdrive the preamp in order to get various distorted sounds. In the fully counter-clockwise position is the cleanest, least distorted sound and as you turn it clockwise you bring in distortion. Adjust to your taste.

Tone Controls

Bass, Low Mid, Hi Mid and Treble controls are customized for each Amp Model to give you optimal tonal control. These controls will help you to shape the tone you hear in your head.

Opto Comp - The compressor control adjusts the threshold of the compressor. The farther the control is rotated clockwise, the more dramatic the compression becomes which brings a more even dynamic to your sound. When completely in the counter-clockwise position, the compressor circuit is off. As you turn the knob clockwise, the threshold at which the compressor kicks in is lowered. The LED to the left of this control will light when the compressor hits -5db of gain reduction, which is a very good place to start.

Amp Model Descriptions

Clean

This model is all about clean, funk and fusion bass tone. It'll give you all the warm lows and punchy highs you need. This sound was crafted during our studies of the Eden Traveler.

R & B

This Amp Model is a tribute to those late 60's and early 70's clean fat bass tones. It is the kind of tone you hear on most Motown recordings, as played by a pioneering young James Jamerson. This Amp Model draws on our analysis of a 1968 B-15 Flip Top.

Rock

This sound was crafted during our studies of the '74 Ampeg® SVT®. This workhorse has appeared on innumerable recordings and arena stages worldwide. And now all the tone of the 300 lbs behemoth 8X10 and head is available in your combo!

Grind

As the name would suggest, this is for you modern rock lovers, Alice in Chains, Mudvayne and Rage against the Machine. This model is based on* a distorted SansAmp PSA-1 into an SVT® with direct clean bass signal mixed in for that angry, clear and punchy aggression that takes your sound to DEFCON 1.

Synth

Remember the Gap Band or the Dazz Band? How bout Marilyn Manson or NIN? They all incorporate Synth Bass into their music and now you can too with this synth that we based on the classic synths of the 70's. See the following page for a breakdown on Synth controls.

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About the Synth:

Selecting the Synth re-works the amp controls to give you Analog Synth control over the Bass Synth. Here's what happens:

Drive

Adds post filter distortion. Start with this knob at 10 o'clock for a little dirt.

Cutoff (Bass)

Filter Frequency Cutoff. Start with this at 10 o'clock for deeper synth tones.

Resonance (Low Mid)

As you turn this knob clockwise you bring in resonance, think laser sounds.

Envelope (High Mid)

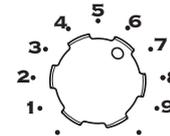
Filter Envelope Depth. The Filter Envelope is triggered every time you play a new and clear note. The Envelope amount controls how much the filter will open each time you play a note.

Attack/Decay (Treble)

Filter Envelope Rate. Controls the speed of the Filter envelope from fast to slow. Start with this control at 9 o'clock for typical Synth bass sounds.

Waveform (Opto Comp)

A number of Waveforms are offered on this knob:



1. Sawtooth
2. Sawtooth plus Octave Down
3. Sawtooth plus Octave Down Sawtooth
4. Triangle PWM
5. Triangle plus Octave Down
6. Square
7. Square PWM plus Octave
8. Square PWM plus Octave Down with Chorus and added fifth
9. Square PWM plus Octave Down & Chorus

Saving

We have preloaded the four model buttons with very popular and usable sounds. But you can also store your own version of the model here as well. You can always get the factory presets back so don't worry, change and save them to your heart's content.

To store your own "snapshot" of all knob positions (except Master Volume), press and hold the current model button for two seconds. The LED flashes twice when the save is complete.

XLR Direct Output

This is your Direct Out for recording or sending your sound to a house sound system when you're playing live. This output utilizes Line 6's exclusive A.I.R. processing which has made Line 6 products like POD the undisputed standard for recording direct. The level of this output is set via Channel Volume and has a ground lift switch to lift the ground if your direct out is causing a buzz in the sound/recording system you are connected to. A bit of advice, many pro sound engineers here at Line 6 have made the direct out experience from this amp a beautiful one. Many sound engineers prefer to take a Pre Amplifier Direct Signal via a Direct Box. This is the de facto technique for getting basic bass tone in the house PA. When playing a gig in a club, ask the sound guy to consider using

your direct out for amp and cabinet tone - they will not be disappointed!

Important

When using the direct out, there can be a 'pop' on the output on power up or power down. We recommend that you either disconnect the direct out or mute whatever the direct out is connected to before powering your LowDown on or off.

CD/MP3

Connect a CD player, MP3 player, drum machine or other device here, and you'll hear it from LowDown's speaker or headphone output. Very handy for jamming along! Use the output volume control on the connected device to set its level.

Phones

Connect your stereo headphones here to listen to your bass and/or your favorite CD and jam along for working on your favorite licks. Plugging in headphones disables your speaker output.

Factory Reset of the Model Defaults and a Special Hidden Feature

You can reset all 4 of your LowDown's programmable models to their factory-programmed states by pressing and holding down the Clean model button as you turn on the power. Clean will flash to tell you the reset is complete. Warning: This will erase ALL custom sounds you might have created. Ask yourself, "Do I really want to do this?" If your answer is yes, then go for it!

Also, there is a very popular sound that you may have seen on the Studio 110's big brothers. We have given you a secret way to change the Clean model to be the Brit model and put your Studio 110 into Rock Mode. Press and hold the Clean and R&B model buttons as you turn on the power. Clean and R&B will flash back and forth to indicate that you have changed the Clean model into the Brit model.

Brit

Based on* a '68 Marshall® Super Bass. Enough said. The Super Bass covers the kind of overdriven bass sound brought to us by late '60's British rock pioneers such as Cream and The Who as well as '70's giants Yes and Rush.

If you would like to return the Clean model to the Studio 110 just press and hold the Clean and R&B model buttons as you turn on the power. Clean and R&B will light solid to indicate that you have restored the Clean model. As long as you don't mind losing your settings for Clean and Brit, you can change from Normal Mode to Rock Mode anytime you want.