

Harley Benton

DNAfx GiT Core

Multi Effects Unit

Thomann GmbH

Hans-Thomann-Straße 1

96138 Burgebrach

Germany

Telephone: +49 (0) 9546 9223-0

Internet: www.thomann.de

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1 General information

This document contains important instructions for the safe operation of the product. Read and follow the safety instructions and all other instructions. Keep the document for future reference. Make sure that it is available to all those using the product. If you sell the product to another user, be sure that they also receive this document.

Our products and documentation are subject to a process of continuous development. They are therefore subject to change. Please refer to the latest version of the documentation, which is ready for download under www.thomann.de.

1.1 Symbols and signal words

In this section you will find an overview of the meaning of symbols and signal words that are used in this document.

Signal word	Meaning
DANGER!	This combination of symbol and signal word indicates an immediate dangerous situation that will result in death or serious injury if it is not avoided.
WARNING!	This combination of symbol and signal word indicates a possible dangerous situation that can result in death or serious injury if it is not avoided.
NOTICE!	This combination of symbol and signal word indicates a possible dangerous situation that can result in material and environmental damage if it is not avoided.
Warning signs	Type of danger
	Warning – danger zone.

2 Safety instructions

Intended use

This device is intended to be used for sound processing of signals from musical instruments with electromagnetic pickups. Any other use or use under other operating conditions is considered to be improper and may result in personal injury or property damage. No liability will be assumed for damages resulting from improper use.

This device may be used only by persons with sufficient physical, sensorial, and intellectual abilities and having corresponding knowledge and experience. Other persons may use this device only if they are supervised or instructed by a person who is responsible for their safety.

Safety



DANGER!

Risk of injury and choking hazard for children!

Children can suffocate on packaging material and small parts. Children can injure themselves when handling the device. Never allow children to play with the packaging material and the device. Always store packaging material out of the reach of babies and small children. Always dispose of packaging material properly when it is not in use. Never allow children to use the device without supervision. Keep small parts away from children and make sure that the device does not shed any small parts (such knobs) that children could play with.



WARNING!

Possible hearing damage due to high volumes on speakers or headphones!

With speakers or headphones connected, the device can produce volume levels that may cause temporary or permanent hearing impairment. Over an extended period of time, even levels that seem to be uncritical can cause hearing damage. Do not operate the device permanently at a high volume level. Decrease the volume level immediately if you experience ringing in your ears or hearing impairment.

**NOTICE!****Damage to the device if operated in unsuitable ambient conditions!**

The device can be damaged if it is operated in unsuitable ambient conditions. Only operate the device indoors within the ambient conditions specified in the “Technical specifications” chapter of this user manual. Avoid operating it in environments with direct sunlight, heavy dirt and strong vibrations. Avoid operating it in environments with strong temperature fluctuations. If temperature fluctuations cannot be avoided (for example after transport in low outside temperatures), do not switch on the device immediately. Never subject the device to liquids or moisture. Never move the device to another location while it is in operation. In environments with increased dirt levels (for example due to dust, smoke, nicotine or mist): Have the device cleaned by qualified specialists at regular intervals to prevent damage due to overheating and other malfunctions.

**NOTICE!****Damage to the external power supply due to high voltages!**

The device is powered by an external power supply. The external power supply can be damaged if it is operated with the incorrect voltage or if high voltage peaks occur. In the worst case, excess voltages can also cause a risk of injury and fires. Make sure that the voltage specification on the external power supply matches the local power grid before plugging in the power supply. Only operate the external power supply from professionally installed mains sockets that are protected by a residual current circuit breaker (FI). As a precaution, disconnect the power supply from the power grid when storms are approaching or if the device will not be used for a longer period.

**NOTICE!****Possible staining due to plasticiser in rubber feet!**

The plasticiser contained in the rubber feet of this product may react with the coating of the floor and cause permanent dark stains after some time. If necessary, use a suitable mat or felt slide to prevent direct contact between the device’s rubber feet and the floor.

3 Features

Special features of the device:

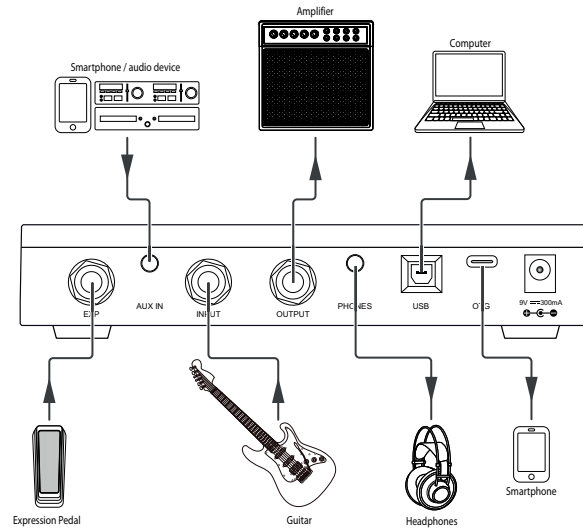
- 55 high-quality amp simulations
- 26 IR (Impulse Response) simulations
- 151 different guitar effects
- Up to 9 types of effects at the same time
- 40 drum rhythms and 10 metronome rhythms
- Phrase Looper with 80 seconds recording time
- Tap tempo function
- Up to 200 storable presets
- Large LED colour display
- Easy-to-read chromatic tuner
- USB connectivity for editing via PC or MAC
- Robust aluminium housing

4 Installation

Unpack and check carefully there is no transportation damage before using the unit. Keep the equipment packaging. To fully protect the product against vibration, dust and moisture during transportation or storage use the original packaging or your own packaging material suitable for transport or storage, respectively.

Create all connections while the device is off. Use the shortest possible high-quality cables for all connections. Take care when running the cables to prevent tripping hazards.

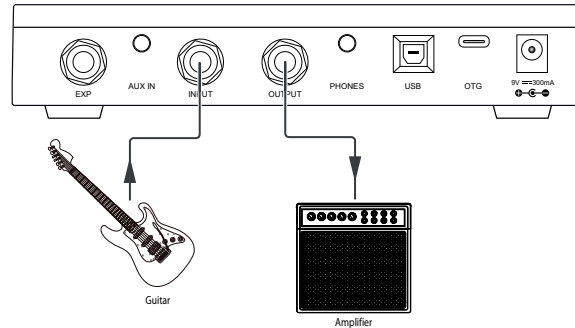
Connection options



Connection to the power supply

1. ➤ Make the desired connection between the guitar and the equipment.
2. ➤ Connect the supplied power adapter to the power supply input of the device and then plug the power adapter into an AC outlet.

Connection to the input socket of the amplifier



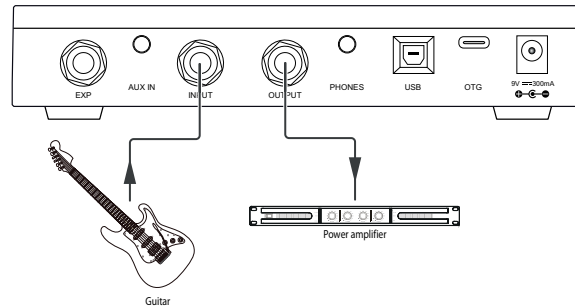
1. ➤ Connect the guitar to the *[INPUT]* socket of the device.



Turn off the [AMP] and [CAB] effects.

2. ➤ Connect the input of the amplifier to the output jack *[OUTPUT]* of the unit.

Connection to the power amplifier



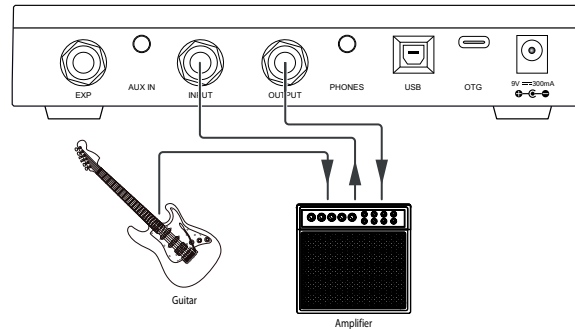
1. ➤ Connect the guitar to the *[INPUT]* socket of the device.



Turn off the [CAB] effect.

2. ➤ Connect the RETURN interface of the power amplifier to the *[OUTPUT]* socket of the device.

Connection to a effects looper



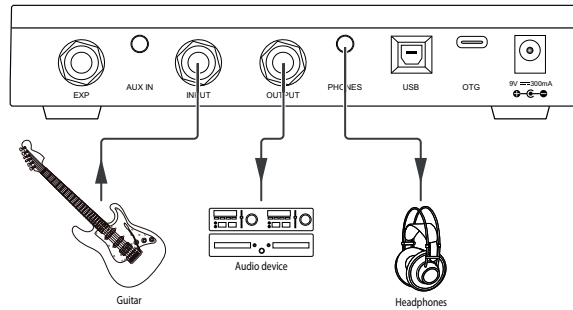
1. ➤ Connect the guitar to the input of an amplifier.



Turn off the [AMP] and [CAB] effects.

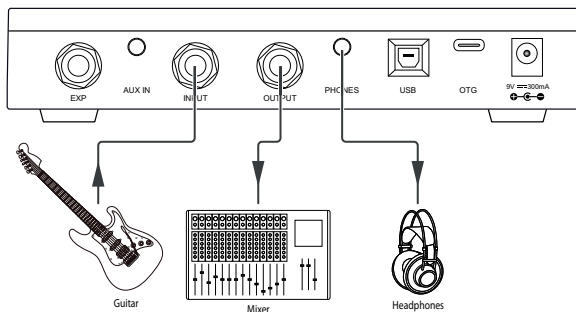
2. ➤ Connect the SEND interface of the amplifier to the [INPUT] socket of the device.
3. ➤ Connect the RETURN interface of the amplifier to the [OUTPUT] socket of the device.

Studio



1. ➤ Connect the guitar to the *[INPUT]* socket of the device.
2. ➤ Connect an audio interface to the *[OUTPUT]* socket of the device.
3. ➤ Connect headphones to the *[PHONES]* socket.

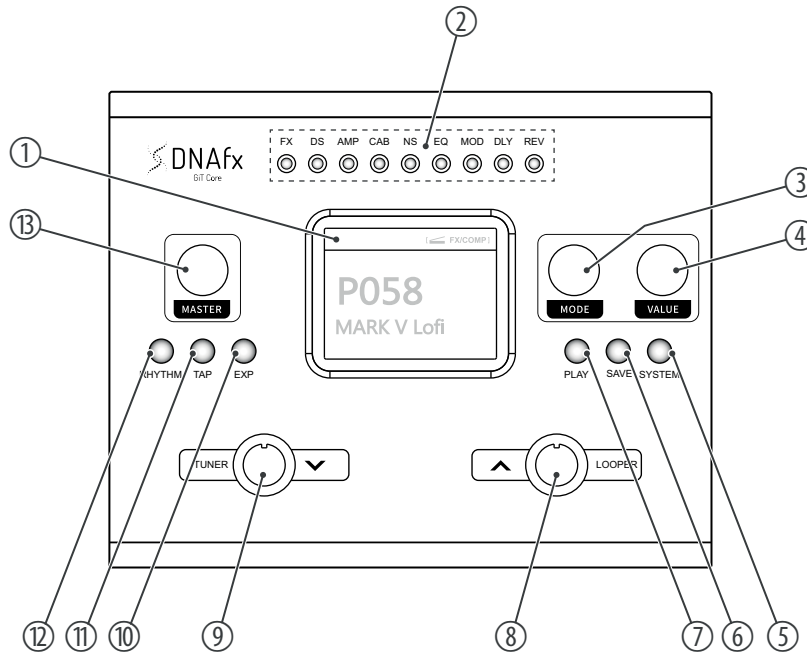
Stage



1. ➤ Connect the guitar to the *[INPUT]* socket of the device.
2. ➤ Connect a mixer to the *[OUTPUT]* socket of the device.
3. ➤ Connect headphones to the *[PHONES]* socket.

5 Connections and controls

Top

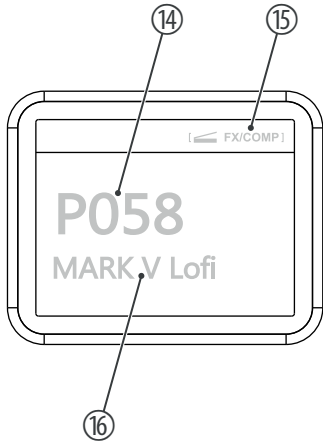


1	Display
2	<i>[FX]</i> , <i>[DS]</i> , <i>[AMP]</i> , <i>[CAB]</i> , <i>[NS]</i> , <i>[EQ]</i> , <i>[MOD]</i> , <i>[DLY]</i> , <i>[REV]</i> LED indicator light for effects The active effect blocks in the effects chain for the currently set preset light up.
3	<i>[MODE]</i> Rotary control for switching on and off the respective effect modules
4	<i>[VALUE]</i> Rotary control for switching menu pages and changing parameters
5	<i>[SYSTEM]</i> Button for calling up the system settings
6	<i>[SAVE]</i> Button for calling up the preset memory menu
7	<i>[PLAY]</i> Button for calling up the preset menu screens
8	<i>[LOOPER]</i> ^ Foot switch for activating the looper <ul style="list-style-type: none">■ Hold down the foot switch to activate the looper.■ With the looper activated: Press the foot switch to activate the STOP/CLEAR function.
9	<i>[TUNER]</i> v Foot switch for activating the tuner <ul style="list-style-type: none">■ Hold down the foot switch to activate the tuner.■ With the looper activated: Press the foot switch to activate the REC/PLAY/DUB function.
10	<i>[EXP]</i> Button for calling up the configuration of the expression pedals
11	<i>[TAP]</i> Button for calling up the tap tempo settings

12 [RHYTHM] | Button for calling up the configuration of the drums and metronome

13 [MASTER] | Rotary control for adjusting the overall volume

Display

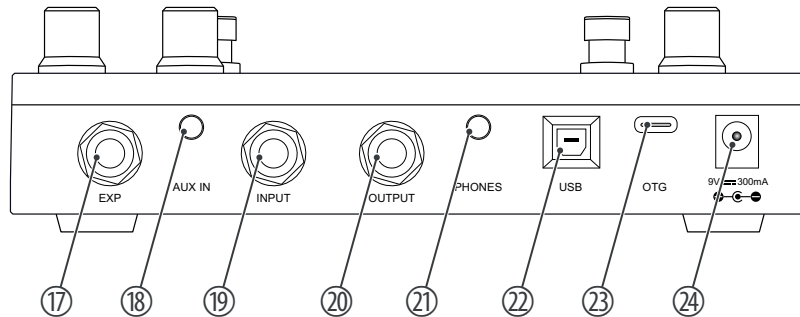


14 Preset number

15 Value controlled by the expression pedal

16 Preset name

Back



- 17 *[EXP]* | 6.35-mm jack socket for connecting an external expression pedal
- 18 *[AUX IN]* | 3.5 mm input socket (stereo) for connecting an audio device (e.g. MP3 player or mobile phone)
- 19 *[INPUT]* | 6.35-mm jack socket for connecting a guitar or another instrument with a similar output level
- 20 *[OUTPUT]* | 6.35-mm jack socket (stereo)
- 21 *[PHONES]* | 3.5-mm jack socket (stereo) for connecting headphones
- 22 *[USB]* | Type B USB port for connecting the device to a PC
You can use the PC to update the software.

- | | |
|----|--|
| 23 | <i>[OTG]</i> USB-C connection for connecting the device to a compatible smartphone or tablet
You can use a compatible device to record the played songs directly or to edit presets with the special editor software. |
| 24 | Connection for the external power supply |

6 Operation

6.1 Presets

6.1.1 Selecting presets

The device has 200 pre-set slots.

➔ Press the [TUNER] \vee or [LOOPER] \wedge foot switches or turn the [VALUE] rotary control to switch between presets.



The LEDs in the effects block light up according to the effects chain setting for the current preset.

Preset	Requirement	Function
P001...P050	AMP and CAB effects enabled	Connection of full-range devices (headphones, sound card, mixer, full-range speakers, etc.)
P051...P100	AMP effects enabled	Connection to the RETURN interface of the guitar amplifier

Preset	Requirement	Function
P101...P150	AMP and CAB effects disabled	Direct connection to <i>[INPUT]</i> of the guitar amplifier
P151...P200		Individually configurable presets

6.1.2 Editing presets

The device has 9 effects blocks that allow you to use up to 9 types of effects simultaneously in an effects chain.

Enabling an effect block

1. ➤ Turn *[MODE]* to select a disabled effect block.
2. ➤ Press *[Mode]*.
 - ⇒ The effect block is enabled. The LED in the effect block lights up.

Disabling an effect block

1. ➤ Turn *[MODE]* to select a enabled effect block.
2. ➤ Press *[MODE]*.
 - ⇒ The effect block is disabled. The LED in the effect block goes out.

Editing effects

1. ▶ Turn *[MODE]* to select the desired effect block.
2. ▶ Turn *[VALUE]* to select the desired value (display shows 'GAIN' 'MID' 'PRES' 'BASS' 'TREBLE' 'MST').
3. ▶ Press *[VALUE]*.
⇒ The set value is applied.
4. ▶ Turn *[VALUE]* to change the parameters.
5. ▶ Press *[VALUE]* to exit the edit menu.

Adjusting the volume

You can adjust the volume in several ways:





- Using the *[MASTER]* rotary control
- Using the 'INPUT LEVEL' submenu in the system settings
- Using the external expression pedal
- Using the 'MST' submenu in the effects

6.1.3 Storing presets





- 1.** ▶ Press *[SAVE]*.
 - ⇒ A window for allocating a memory location and a name for the preset to be saved opens up.
- 2.** ▶ Turn *[VALUE]* until the desired preset number is reached, under which you want to save the settings.
- 3.** ▶ Press *[VALUE]*.
 - ⇒ The set value is applied.
- 4.** ▶ Turn *[VALUE]* to select the desired letter for the preset name.
- 5.** ▶ Press *[VALUE]*.
 - ⇒ The set value is applied.
- 6.** ▶ Repeat steps 4 and 5 until you have entered the desired name for the preset you want to save.

6.2 Expression pedal

Setting the effects volume

1.  Press *[EXP]*.
 - ⇒ The menu for setting the external expression pedal is called up.
2.  Turn *[VALUE]* until the display shows 'Level/Volume/MST'.
3.  Press *[VALUE]*.
 - ⇒ The set value is applied.
4.  Confirm the expression pedal.
 - ⇒ The expression pedal is enabled. The *[EXP]* LED lights up.

Calling up the expression pedal settings

1.  Press *[EXP]*.
 - ⇒ The menu for setting the external expression pedal is called up.
2.  Turn *[VALUE]* until the display shows 'FUNCTION'.
3.  Press *[VALUE]*.
4.  Turn *[VALUE]* to select the desired parameter you want to set.

5. ▶ Confirm the expression pedal.
 - ⇒ The set parameter is activated. The *[EXP]* LED lights up.

Calibrating the expression pedal

1. ▶ Press *[EXP]*.
 - ⇒ The menu for setting the external expression pedal is called up.
2. ▶ Lower the expression pedal to the rear and press *[VALUE]*.
 - ⇒ The setting is confirmed.
3. ▶ Lower the expression pedal to the front and press *[VALUE]*.
 - ⇒ The setting is confirmed.
4. ▶ Press *[SAVE]* to save the settings.

Adjusting the expression pedal volume

1. ▶ Press *[EXP]*.
 - ⇒ The menu for setting the external expression pedal is called up.
2. ▶ Turn *[VALUE]* until the display shows 'EXP VOL'.
3. ▶ Press *[VALUE]*.
 - ⇒ The display shows 'EXP VOL PEDAL: ON'.
4. ▶ Turn *[VALUE]* to select the desired value for the volume from 'MIN 000' to 'MST 100'.
5. ▶ Press *[VALUE]*.
 - ⇒ The setting is confirmed.

6.3 Tap tempo

1. ▶ Turn *[MODE]* to select the *[DLY]* effect block.
2. ▶ Press *[MODE]*.
 - ⇒ The delay effect is activated.
3. ▶ Turn *[VALUE]* to select the 'SUB-D' submenu.
4. ▶ Turn *[VALUE]* to select the desired value.
5. ▶ Press *[VALUE]*.
 - ⇒ The setting is confirmed.
6. ▶ Press *[TAP]* twice to control the delay time.
 - ⇒ The LED in the *[TAP]* button lights up red.

6.4 Drum machine

1. ▶ Press *[RHYTHM]*.
 - ⇒ The drum machine is enabled. The LEDs of the *[RHYTHM]* and *[TAP]* buttons light up blue.
2. ▶ Turn *[VALUE]* to select the desired submenu.

- 3.** ▶ Press [VALUE].
 ⇒ The setting is confirmed.

Submenu menu level 1	Menu level 2	Menu level 3	Description
'MODE'	'RHYTHM'		Sets the Rhythm operating mode.
		'STYLE'	Adjusts the drum rhythm.
		'BPM'	Sets the beats per minute.
		'VOLUME'	Adjusts the volume.
	'METRONOME'		Sets the Metronome operating mode.
		'STYLE'	Adjusts the drum rhythm.
		'BPM'	Sets the beats per minute.
		'VOLUME'	Adjusts the volume.

6.5 Tuner

1. ▶ Press and hold down the *[TUNER]* ∨ foot switch.
⇒ The tuner is enabled.
2. ▶ Turn *[VALUE]* to select the desired submenu.
3. ▶ Press *[VALUE]*.
⇒ The setting is confirmed.
4. ▶ Press any foot switch to exit tuner mode.

Submenu	Description
'MUTE'	The audio signal is muted.
'BYPASS'	The audio signal is bypassed.
'A=435Hz'... 'A=445Hz'	Tuner calibration. The chromatic tuning range can be set between 435 Hz and 445 Hz.

6.6 Looper

1. ▶ Hold down the *[LOOPER]* ^ foot switch.
⇒ The looper is activated.
2. ▶ Turn *[VALUE]* to select the desired submenu.
3. ▶ Press *[VALUE]*.
⇒ The setting is confirmed.

Submenu	Description
'PLAY VOL'	Adjusts the playback volume of the looper.
'TIME'	Shows the recording time.

Submenu	Trigger	Description
'REC'	Press <i>[TUNER]</i> ▼	Recording starts.
'PLAY'	With REC/DUB/STOP activated: Press <i>[TUNER]</i> ▼	Playback starts.

Submenu	Trigger	Description
'DUB'	With PLAY activated: Press [TUNER]∨	The dubbing starts.
'STOP'	With PLAY/DUB activated: Press [LOOPER]^	Playback or dubbing stops.
'CLEAR'	Press and hold [LOOPER]^ for one second	All audio tracks are deleted.



- *After recording for more than 80 seconds, the looper automatically starts playback.*
- *Editing presets does not affect the sound of the recorded track.*

6.7 OTG function

The device can be used as an audio interface with a smartphone or tablet.

- ▶ Connect the device to a smartphone or tablet using an OTG cable.
 - ⇒ The device is connected for recording audio or video recordings on the mobile device.

6.8 System settings

1. ▶ Press *[SYSTEM]* to call up the system settings.
2. ▶ Turn *[VALUE]* to select the desired submenu.
3. ▶ Press *[VALUE]*.
 - ⇒ The setting is confirmed.

Submenu	Description
'INPUT LEVEL'	Sets the input level of the device, $-\infty \sim +6$ dB.
'SCREEN'	Adjusts the brightness of the display.
'CAB SIM TRHU'	Sets the different output options in the speaker simulation of the device.
'OTG OUT'	Sets the output level for OTG mode.
'RESET'	Resets the device to factory defaults.

6.9 Software

With the dedicated editing software, the device can be computer-controlled (PC or MAC) for sound recording, for software updates or for editing presets.

To do this, connect your computer to the device via the USB port on the device.



Make sure that the device is connected to the power supply via the supplied power adapter.

6.9.1 Software update

The current software version can be downloaded for free from www.harleybenton.com or our website www.thomann.de.

1. ➤ Install the current software version on your computer.
2. ➤ Simultaneously hold down the [TUNER] ∨ and [LOOPER] ∧ foot switches and turn on the device.
3. ➤ Connect your computer to the device via the USB port on the device.
4. ➤ Start the software on your computer and then start the software update.



We recommend removing the obsolete software version before installing the current software version.

7 Effects list

FXCOMP

Number	Name	Template
1	CRY WAH	DUNLOP® GCB95
2	535 WAH	DUNLOP® Crybaby 535Q
3	AUTO WAH	@WAH
4	TALK WAH AH	RedKid Talk wah 'AH'
5	TALK WAH OH	RedKid Talk wah 'OH'
6	TOUCH WAH	ENVELOPE auto-wah
7	YELLOW COMP	YELLOW COMP compressor
8	BLUE COMP	BLUE COMP compressor

DS/OD

Number	Name	Template
1	TUBE DR	B.K. Butler® Tubedrive
2	808	IBANEZ® Ts808
3	PURE BOOST	PURE BOOST
4	FLEX BOOST	FLEX BOOST
5	DDRIVE	BARBER® Direct Drive
6	BLACKRAT	ProCo® Rat
7	GREY FAZE	DUNLOP® Fuzz Face
8	MUFFY	EH® Big Muff
9	MTL ZONE	BOSS® METAL ZONE
10	MTL MASTER	Digitech® METAL MASTER
11	OBSESSIVE DIST	Fulltone® OCD
12	JIMMY OD	Paul Cochrane® Timmy OD
13	FULL DRV	Fulltone® Fulldrive 2
14	SHRED	Marshall® Shred master
15	BEEBEE PRE	Xotic® BB Preamp

Number	Name	Template
16	BEEBEE +	Xotic® BB Plus
17	RIET	Suhr® Riot
18	TIGHT DS	Amptweaker® TightRock
19	FULL DS	Fulltone® GT-500
20	GOLD CLON	Klon® Centaur

AMP

Number	Name	Template
1	65US DX	Fender® 65 Deluxe reverb
2	65 USTW	Fender® 65 Twin Reverb
3	59 US BASS	Fender® 59 Bassman
4	US SONIC	Fender® Super Sonic
5	US BLUES CL	Fender® Blues Deluxe clean channel
6	US BLUES OD	Fender® Blues Deluxe
7	J800	Marshall® JCM800
8	J900	Marshall® JCM900
9	PLX 100	Marshall® Plexi 100
10	E650 CL	Engl® E650 Clean
11	E650 DS	Engl® E650 Distortion
12	POWERBELL CL	Engl® E645 Clean
13	POWERBELL DS	Engl® E645 Distortion
14	BLACKNIIGHI CL	Engl® EN650 Blackmore Clean
15	BLACKNIGHT DS	Engl® EN650 Blackmore Distortion

Number	Name	Template
16	MARKIII CL	Mesa Boogie® MARK III Clean
17	MARKIII DS	Mesa Boogie® MARK III Distortion
18	MARKV CL	Mesa Boogie® MARK V Clean
19	MARKV DS	Mesa Boogie® MARK V Distortion
20	TRI REC CL	Mesa Boogie® Triple Rectifier Clean
21	TRI REC DS	Mesa Boogie® Triple Rectifier Distortion
22	ROCK VRB CL	Orange® Rockerverb Clean
23	ROCK VRB DS	Orange® Rockerverb Distortion
24	CITRUS 30	Orange® AD 30
25	CITRUS 50	Orange® OR 50
26	SLOW 100 CR	Soldano® SLO-100 Crunch
27	SLOW100 DS	Soldano® SLO-100 Distortion
28	DR.ZEE 18 JR	DR.Z® Maz18 Jr
29	DR.ZEE RECK	DR.Z® Z-Wreck
30	JET 100H CL	Jet City® JCA100H Clean
31	JET 100H OD	Jet City® JCA100H Distortion

Number	Name	Template
32	JAZZ 120	Roland® JC-120
33	UK30 CL	Vox® AC30 Clean
34	UK30 OD	Vox® AC30 Overdriven
35	HWT103	Hiwatt® DR-103
36	PV 5050 CL	Peavey® 5150 Clean
37	PV 5050 DS	Peavey® 5150 Distortion
38	REGAL TONE CL	Tone King® Falcon Rhythm
39	REGAL TONE OD1	Tone King® Falcon Tweed
40	REGAL TONE OD2	Tone King® Falcon Lead
41	CAROL CL	Two Rock® Coral Clean
42	CAROL OD	Two Rock® Coral Overdriven
43	CARDEFF	Two Rock® Cardiff
44	EV 5050 CL	EVH® 5150 Clean
45	EV 5050 DS	EVH® 5150 Distortion
46	HT CLUB CL	Blackstar® HT Stage 100 Clean
47	HT CLUB DS	Blackstar® HT Stage 100 Distortion

Number	Name	Template
48	HUGEN CL	Diezel® Hagen Clean
49	HUGEN OD	Diezel® Hagen Overdrive
50	HUGEN DS	Diezel® Hagen Distortion
51	KOCHE OD	Koch® Powertone Overdrive
52	KOCHE DS	Koch® Powertone Distortion
53	ACOUSTIC 1	Acoustic simulator 1
54	ACOUSTIC 2	Acoustic simulator 2
55	ACOUSTIC 3	Acoustic simulator 3

CAB

Number	Name	Template
1	US DLX 112	Fender® Deluxe reverb 112
2	US TWN 212	Fender® Twin reverb 112
3	US BASS 410	Fender® Bassman 410
4	SONIC 112	Fender® Super Sonic 112
5	BLUES 112	Fender® Blues deluxe 112
6	1960 412	Marshall® 1960A 412
7	EAGLE P412	Engl® Pro XXL 412
8	EAGLE S412	Engl® Vintage XXL 412
9	MARK 112	Mesa Boogie® Mark 112
10	REC412	Mesa Boogie® Rectifier 412
11	CITRUS 412	Orange® Pc412
12	CITRUS 212	Orange® Pc212
13	SLOW 412	Soldano® SLO 412
14	DR.ZEE 112	DR.Z® Maz 112
15	DR.ZEE 212	DR.Z® Z-Wreck 212

Number	Name	Template
16	JAZZ 212	Roland® JC120 212
17	UK 212	Vox® AC30 212
18	HWT 412	Hiwatt® Ap412
19	PV 5050 412	Peavey® 5150 412
20	REGAL TONE 110	Tone King® Falcon 110
21	TWO STONES 212	Two Rock® 212
22	CARDEFF 112	Two Rock® 112
23	EV 5050 412	EVH® 5150 412
24	HT 412	Blackstar® HTV 412
25	GAS STATION 412	Diezel® Hagen 412
26	ACOUSTIC 112	1 × 12" cabinet for acoustic amplification

NS

Number	Name	Template
1	NOISE KILLER	NOISE KILLER
2	INTEL REDUCER	Intelligent Noise Reduction
3	NOISE GATE	Digital noise gate

EQ

Number	Name	Template
1	GUITAR EQ	5 band graphic EQ for guitar
2	METAL EQ	5 band graphic EQ for BASS guitar
3	6BAND EQ	6 band graphic EQ for Guitar
4	CUSTOM EQ	3 band parametric EQ with adjustable frequencies and $\pm 12\text{Db}$ boost/cut

MOD

Number	Name	Template
1	PHASER	Based on the custom phaser effect
2	STEP PHASER	Square wave phase shifter
3	FAT PHASER	Low frequency phase shifter
4	FLANGER	Based on the custom flanger effect
5	JET-FLANGER	Based on the JET FLANGER
6	TREMOLO	Based on the custom tremolo effect
7	STUTTER	Choppy cut off filter
8	VIBRATO	Pitch modulation
9	PITCH SHIFT	Dry signal pitch shifter. Can simulate classic whammy.
10	DETUNE	Fine tune pitch adjustment
11	ROTARY	Simulates a vintage leslie rotating speaker
12	ANA-CHORUS	Stompbox style analog chorus
13	TRI-CHORUS	Rich multi stage chorus
14	RING MOD	Ring modulator
15	Q-FILTER	Static notch filter (like a half cocked wah pedal)

Effects list

Number	Name	Template
16	HIGH PASS	Static high frequency pass filter
17	LOW PASS	Static low frequency pass filter
18	SLOW GEAR	Auto volume swell
19	LOFI	Low rate sampling filter

DELAY

Number	Name	Template
1	DIGITAL	Recreates the crystal-clear repeats of the 80's delay units
2	ANALOG	Modelled after classic stompbox delays with BB chips
3	REAL	Realistic and natural echo
4	TAPE	Recreates swirly 70's tape echo
5	MOD	Digital Delay with modulated repeats
6	REVERSE	Backwards delay
7	PINGPONG	Stereo delay
8	DYNAMIC	Digital Delay which responds to instrument dynamics
9	DUAL DELAY	2 delays with independent controls

REVERB

Number	Name	Template
1	ROOM	Small room reverb
2	HALL	Large room reverb
3	CHURCH	Huge room reverb
4	PLATE	Studio style plate reverb
5	SPRING	Classic spring reverb tank
6	MOD	Reverb with modulation
7	CAVE	Spacious and atmospheric reverb

8 Technical specifications

Input connections	Power supply	Input socket for power adapter
	AUX IN	1 × 3.5-mm jack socket (stereo)
	INPUT	1 × 6.35-mm jack socket (mono)
	Expression pedal	1 × 6.35-mm jack socket (stereo)
Output connections	Audio	1 × 6.35-mm jack socket (stereo)
		1 × 3.5-mm jack socket (stereo)
	USB	1 × USB, type B
		1 × USB, type C
Impulse response	IR format	WAV
	IR sampling rate	44.1 kHz
	IR sampling accuracy	24 bit
	IR sampling points	512
Power supply	External power adapter, 100 - 240 V ~ 50/60 Hz	
Operating voltage	9 V $\overline{=}$ / 300 mA, centre negative	
Dimensions (W × H × D)	175 mm × 52 mm × 141 mm	

Technical specifications

Weight	507 g	
Ambient conditions	Temperature range	0 °C...40 °C
	Relative humidity	20%...80% (non-condensing)

Further information

Amp modelling	Yes
Drum computer	Yes
Tuner included	Yes
Expression pedal	No
USB connection	Yes
Headphone connection	Yes
MIDI interface	No
Line out	Yes
Battery operation	No
Power supply included	Yes

9 Plug and pin assignments

Introduction

This chapter will help you select the right cables and plugs to connect your valuable equipment in such a way that a perfect sound experience is ensured.

Please note these advices, because especially in 'Sound & Light' caution is indicated: Even if a plug fits into the socket, an incorrect connection may result in a destroyed power amp, a short circuit or 'just' in poor transmission quality!

Balanced and unbalanced transmission

Unbalanced transmission is mainly used in semi-professional environment and in hifi use. Instrument cables with two conductors (one core plus shielding) are typical representatives of the unbalanced transmission. One conductor is ground and shielding while the signal is transmitted through the core.

Unbalanced transmission is susceptible to electromagnetic interference, especially at low levels, such as microphone signals and when using long cables.

In a professional environment, therefore, the balanced transmission is preferred, because this enables an undisturbed transmission of signals over long distances. In addition to the conductors 'Ground' and 'Signal', in a balanced transmission a second core is added. This also transfers the signal, but phase-shifted by 180°.

Since the interference affects both cores equally, by subtracting the phase-shifted signals, the interfering signal is completely neutralized. The result is a pure signal without any noise interference.

1/4" TS phone plug (mono, unbalanced)



1	Signal
2	Ground, shielding

1/4" TRS phone plug (stereo, unbalanced)



1	Signal (left)
2	Signal (right)
3	Ground

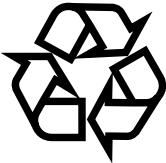
Three-pole 1/8" mini phone jack (stereo, unbalanced)



1	Signal (left)
2	Signal (right)
3	Ground, shielding

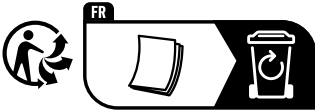
10 Protecting the environment

Disposal of the packing material



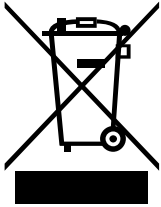
Environmentally friendly materials have been chosen for the packaging. These materials can be sent for normal recycling. Ensure that plastic bags, packaging, etc. are disposed of in the proper manner.

Do not dispose of these materials with your normal household waste, but make sure that they are collected for recycling. Please follow the instructions and markings on the packaging.



Observe the disposal note regarding documentation in France.

Disposal of your old device



This product is subject to the European Waste Electrical and Electronic Equipment Directive (WEEE) as amended.

Do not dispose of your old device with your normal household waste; instead, deliver it for controlled disposal by an approved waste disposal firm or through your local waste facility. If in doubt, consult your local waste management facility. You can also return the device to a retailer if they offer to take the device back for free or if they are legally obliged to do so. When disposing of the device, comply with the rules and regulations that apply in your country. You can also return your old device to Thomann GmbH at no charge. Check the current conditions on www.thomann.de.

Proper disposal protects the environment as well as the health of your fellow human beings. This is because the proper handling of old devices negates the potential negative effects of hazardous substances, and because it conserves resources by recycling them.

Also note that waste avoidance is a valuable contribution to environmental protection. Repairing a device or passing it on to another user is an ecologically valuable alternative to disposal.

If your old device contains personal data, delete those data before disposing of it.

