Setting the auto save function

Enable parameters to be saved automatically.

• On the SETUP screen, turn ⟳ to select AUTO SAVE.
  PUSH TO ENTER

| SETUP ❯ | PRESELECT eco
OFF   ON | **AUTO SAVE** LCD-
ON   CNTRST |

⌄

• Press ⟳ .
  PUSH TO ENTER

| SETUP ❯ | PRESELECT eco
OFF   ON | AUTO SAVE LCD-
ON   CNTRST |

⌄

• Turn ⟳ to set AUTO SAVE to ON/OFF.
  PUSH TO ENTER

| SETUP ❯ | PRESELECT eco
OFF   ON | AUTO SAVE LCD-
OFF   CNTRST |

┌─ **NOTE** ──────────────────────────────────────┐
│ When set to OFF, no patch or effect parameters will be saved automatically. │
└───┘

⌄

• Press ⟳ to confirm the auto save setting.
  PUSH TO ENTER

| SETUP ❯ | PRESELECT eco
OFF   ON | **AUTO SAVE** LCD-
OFF   CNTRST |

Note about switching patches

When AUTO SAVE is set to OFF, if you try to switch patches after changing any parameters, a message will appear asking to save the parameter changes.
To save changes to parameters before switching patches, select YES. (→P19)
To discard changes to parameters before switching patches, select NO.

Adjusting the display contrast

• On the SETUP screen, turn ⊙ **PUSH TO ENTER** to select LCD CNTRST.

⚙ SETUP ❯	PRESELECT eco OFF ON	AUTO SAVE **LCD–** ON **CNTRST**

∨

• Press ⊙ **PUSH TO ENTER** .

UNIT1 8	UNIT2 8	UNIT3 8

∨

• Turn ⊙ **PUSH TO ENTER** to select a display to adjust its contrast.

UNIT1 8	**UNIT2** 8	UNIT3 8

∨

• Press ⊙ **PUSH TO ENTER** to confirm the display.

UNIT1 8	UNIT2 **8**	UNIT3 8

∨

• Turn ⊙ **PUSH TO ENTER** to adjust the contrast.

UNIT1 8	UNIT2 **10**	UNIT3 8

NOTE

The setting range is 1–13.

∨

• Press ⊙ **PUSH TO ENTER** to confirm the contrast setting.

UNIT1 8	**UNIT2** 10	UNIT3 8

27

Using the tuner

Activating the tuner

- Press and hold MEMORY/STOMP [button] in STOMP or MEMORY mode.

```
[Y TUNER ◁))]   [Y TUNER ◁×]   [♪ TAP]
```

- Press [FS 1] or [FS 2].

```
[Y TUNER ◁))]  (Press [FS 1] )
```
The BYPASS sound is output when the TUNER is active.

```
[Y TUNER ◁×]  (Press [FS 2] )
```
No sound is output when the TUNER is active.

- This opens the TUNER screen.

```
[⬜⬜⬜⬜⬜⬜        440Hz ▶ A ◀ ▬▬        ⬜⬜⬜⬜⬜⬜]
        BYPASS ◁))
```

28

Tuning a bass guitar

- Play the open string that you want to tune and adjust its pitch.

   Chromatic tuner
   The name of the nearest note and the pitch accuracy are shown.

BYPASS	440Hz ▶ Ä ◀ ▭	
←Flat	Correct pitch	Sharp→

   Other tuners
   The number of the nearest string and the pitch accuracy are shown.

BYPASS	440Hz ▶ 3 ◀ ♭×0	
←Flat	Correct pitch	Sharp→
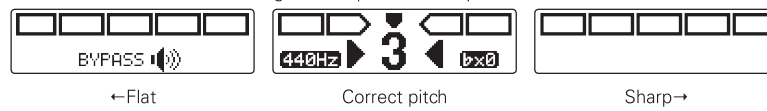
Closing the tuner

- Press MEMORY/STOMP when the TUNER screen is open.

Changing the tuner settings

■ Opening the TUNER SETTINGS screen

- Press [MENU] to open the MENU screen.

| ADD | DELETE | CHAIN | PATCH | | SAVE | SWAP | TUNER | | SETUP | VER. | M.LVL |

- Turn [PUSH TO ENTER] to select TUNER.

| ADD | DELETE | CHAIN | PATCH | | SAVE | SWAP | **TUNER** | | SETUP | VER. | M.LVL |

- Press [PUSH TO ENTER] to open the TUNER SETTINGS screen.

| TUNER SETTINGS > | | CALIBRATION 440Hz | | TYPE   FLAT BASS   b×0 |

30

■ Changing the standard pitch of the tuner

• On the TUNER SETTINGS screen, turn [PUSH TO ENTER] to select CALIBRATION.

Ψ TUNER SETTINGS ❯	**CALIBRATION** 440Hz	TYPE FLAT BASS ♭×0

• Press [PUSH TO ENTER] .

Ψ TUNER SETTINGS ❯	CALIBRATION **440Hz**	TYPE FLAT BASS ♭×0

• Turn [PUSH TO ENTER] to change the standard pitch.

Ψ TUNER SETTINGS ❯	CALIBRATION **442Hz**	TYPE FLAT BASS ♭×0

NOTE

The setting range is 435–445 Hz for middle A.

• Press [PUSH TO ENTER] to confirm the standard pitch of the tuner.

Ψ TUNER SETTINGS ❯	**CALIBRATION** 442Hz	TYPE FLAT BASS ♭×0

HINT

You can also turn the center unit ◯ when the TUNER screen is open to change the standard pitch.

31

■ Changing the tuner type

- On the TUNER SETTINGS screen, turn [PUSH TO ENTER] to select TYPE.

⋎ TUNER SETTINGS ❯	CALIBRATION 440Hz	**TYPE** FLAT CHROMATIC ----

- Press [PUSH TO ENTER] .

⋎ TUNER SETTINGS ❯	CALIBRATION 440Hz	TYPE FLAT **CHROMATIC** ----

- Turn [PUSH TO ENTER] to select the tuner type.

⋎ TUNER SETTINGS ❯	CALIBRATION 440Hz	TYPE FLAT **BASS** ♭×0

CHROMATIC
The chromatic tuner shows the nearest pitch name (semitone) and how far the input sound is from that pitch.

Tuner type

Display	Meaning	String number/Note name					
		LB	4	3	2	1	HC
BASS	Standard tuning for bass guitars, including those with 5 or 6 strings	B	E	A	D	G	C

HINT

"LB" is the low B string and "HC" is the high C string.

- Press [PUSH TO ENTER] to confirm the tuner type.

⋎ TUNER SETTINGS ❯	CALIBRATION 440Hz	**TYPE** FLAT BASS ♭×0

■ Using flat tuning

- On the TUNER SETTINGS screen, turn ⊙ PUSH TO ENTER to select FLAT.

| Y TUNER SETTINGS ❯ | CALIBRATION
440Hz | TYPE   **FLAT**
BASS   ♭×0 |

- Press ⊙ PUSH TO ENTER .

| Y TUNER SETTINGS ❯ | CALIBRATION
440Hz | TYPE   FLAT
BASS   **♭×0** |

- Turn ⊙ PUSH TO ENTER to change the flat tuning.

| Y TUNER SETTINGS ❯ | CALIBRATION
440Hz | TYPE   FLAT
BASS   **♭×1** |

NOTE

- You can drop the tuning by one (x 1), two (x 2) or three (x 3) semitones.
- Drop tuning is not possible when the TYPE is set to CHROMATIC.

- Press ⊙ PUSH TO ENTER to confirm the flat tuning setting.

| Y TUNER SETTINGS ❯ | CALIBRATION
440Hz | TYPE   **FLAT**
BASS   ♭×1 |

Using rhythms

Selecting a rhythm

- Press [MEMORY/STOMP] to change to STOMP mode.

- Use ◎ ▼ **TYPE** ▲ ◎ to select RHYTHM for the desired unit.

```
[RHYTHM] ▶ Rhythm ◀
PATTERN    BPM   VOL
GUIDE      120   80
```

NOTE

One RHYTHM can be selected per patch.

Playing a rhythm

- Press [⬚] for the unit using the rhythm effect.

- The rhythm starts playing.

```
[RHYTHM] ▶ Rhythm ◀
●●●○○○○○
```

HINT

- During rhythm playback, you can switch between STOMP and MEMORY modes.
- If you change a patch during rhythm playback, the rhythm will stop.

Stopping a rhythm

- During rhythm playback, press [⬚] for the unit using the rhythm.

- The rhythm stops.

```
[RHYTHM] ▶ Rhythm ◀
PATTERN    BPM   VOL
GUIDE      120   80
```

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Setting rhythms

■ Selecting rhythm patterns

- Turn ⬤¹ for the unit using the rhythm.

```
[RHYTHM] ▶ Rhythm ▶     [RHYTHM] ▶ Rhythm ▶
PATTERN   BPM  VOL       PATTERN   BPM  VOL
GUIDE     120   80       Rock1     120   80
```

> **NOTE**
>
> See P46 for information about the patterns.

■ Adjusting the rhythm tempo

- Turn ⬤³ for the unit using the rhythm.

```
[RHYTHM] ▶ Rhythm ▶     [RHYTHM] ▶ Rhythm ▶
PATTERN   BPM  VOL       PATTERN   BPM  VOL
Rock1     120   80       Rock1     160   80
```

> **NOTE**
>
> • The setting range is 40–250 bpm.
> • This tempo setting is used by every effect, rhythms and the looper.

■ Adjusting the rhythm volume

- Turn ⬤⁴ for the unit using the rhythm.

```
[RHYTHM] ▶ Rhythm ▶     [RHYTHM] ▶ Rhythm ▶
PATTERN   BPM  VOL       PATTERN   BPM  VOL
Rock1     160   80       Rock1     160  100
```

> **NOTE**
>
> The setting range is 0–100.

Using the looper

Selecting the looper

- Press ⬛**MEMORY**/**STOMP** to change to STOMP mode.

  ⌄

- Use ◎ ▼ **TYPE** ▲ ◎ to select a LOOPER for the desired unit.

  ### 1-unit looper

  ```
  [LOOPER]  ▶ LP-MONO ▶
   Time Undo Stop  VOL
  MANUAL▬▬   ▭▭▭  ▬
         ON    STOP    80
  ```

  ### 2-unit looper

  ```
  [LOOPER]       LP-     ▶ MN2     ▶
     ▼                    Time Undo Stop  VOL
     ⬚ REC              MANUAL▬▬  ▭▭▭  ▬
                              ON    STOP   80
  ```

  ┌─**NOTE**───┐
  │ • There are 4 types of loopers: 1-unit mono, 2-unit mono, 1-unit stereo and 2-unit stereo. │
  │ • One LOOPER can be selected per patch.   │
  └──┘

Recording, playing and clearing phrases

■ Recording phrases

- Press 🔘 for the first unit in the LOOPER.

  ⌄

- This starts recording.

  ```
  [LOOPER] ▶ LP-MONO ▶
  ▬▬▬▬▬        STOP
  ▐ REC ▌      ⬚⬚
  ```

  ⌄

• Recording stops and loop playback starts.

If the recording time is set to "MANUAL"

Loop playback will start when you press [⟳] again or when the maximum recording time is reached.

If the recording time is set to a musical note

Loop playback will start when the set recording time is reached.

`[LOOPER] ▶ LP-MONO ▶`
`PLAY ⬚ STOP`

HINT

• See P39 for how to set the LOOPER recording time.
• During phrase recording and playback, switching to MEMORY mode will not interrupt it.

NOTE

• During rhythm playback, recording will start after the precount.
• Changing a patch will stop phrase recording and playback. Moreover, this will delete the phrase recording data.
• During rhythm playback, quantization is enabled so even if the recording ending time is not exact, the loop will automatically be adjusted so that loop playback stays in time.
• Changing the tempo of a RHYTHM during loop playback will erase the recorded phrase.

■ Overdubbing a recorded phrase

• During loop playback, press [⟳] for the first unit in the LOOPER.

`[LOOPER] ▶ LP-MONO ▶`   `[LOOPER] ▶ LP-MONO ▶`
`PLAY ⬚ STOP`   ❯   `OVERDUB ⬚ STOP`

■ Stopping loop playback

With 1-unit looper

• During loop playback, press [⟳] twice for the unit using the looper.

`[LOOPER] ▶ LP-MONO ▶`
`PLAY ⬚ STOP`

⌄

• This stops the playback.

`[LOOPER] ▶ LP-MONO ▶`
`STOPPED ⬚ CLEAR HOLD`

37

With 2-unit looper

- During loop playback, press [image: looper button] for the second unit in the LOOPER.

```
[LOOPER]        LP-2      MN2
   PLAY         ↕↕       STOP  CLEAR
```

⌄

- This stops the playback.

```
[LOOPER]        LP-2      MN2
   PLAY         ↕↕       STOP  CLEAR
```

■ Deleting phrases

With 1-unit looper

- When loop playback is stopped, press and hold [image: looper button] for the unit using the looper.

```
[LOOPER]  LP-MONO
 STOPPED    CLEAR
            HOLD
```

⌄

- This deletes the phrase.

```
[LOOPER]  LP-MONO
    CLEAR
```

With 2-unit looper

- When loop playback is stopped, press [image: looper button] for the second unit in the LOOPER.

```
[LOOPER]        LP-2      MN2
   PLAY         ↕↕       STOP  CLEAR
```

⌄

- This deletes the phrase.

```
[LOOPER]        LP-2      MN2
   CLEAR              Time Undo Stop VOL
                    MANUAL    ON  STOP  80
```

Setting the looper

■ Setting the looper recording time

- Turn ⌾¹ for the unit using the looper.

```
[LOOPER]  ▶ LP-MONO ▶       [LOOPER]  ▶ LP-MONO ▶
 Time Undo Stop  VOL         Time Undo Stop  VOL
MANUAL▬▬  ON  STOP  80        ♩x8  ON  STOP  80
```

> **NOTE**
> - The setting options include MANUAL and 1–64 quarter notes.
> - The recording time for the mono looper is from 1.5 to 80 seconds (40 seconds when UNDO is ON).
> - The recording time for the stereo looper is from 1.5 to 40 seconds (20 seconds when UNDO is ON).
> - Settings that will not fit in the recording time will be adjusted automatically.
> - Changing the recording time will delete the recorded data.

■ Setting the UNDO function

- Turn ⌾² for the unit using the looper to set it to ON/OFF.

```
[LOOPER]  ▶ LP-MONO ▶       [LOOPER]  ▶ LP-MONO ▶
 Time Undo Stop  VOL         Time Undo Stop  VOL
 ♩x8  ON  STOP  80           ♩x8  OFF  STOP  80
```

> **NOTE**
> When UNDO is ON, the recording time will become as follows.
> - Mono looper: 40 seconds
> - Stereo looper: 20 seconds

Using the UNDO and REDO functions

If UNDO is ON, you can undo the last overdub. You can also use the REDO function to restore the phrase that the UNDO function deleted.

With 1-unit looper
To undo an overdub, press [⌷] for one second during playback. To restore the deleted phrase, press [⌷] for one second again.

With 2-unit looper
To undo an overdub, press [⌷] for the first unit twice during playback. To restore the deleted phrase, press [⌷] twice again.

39

■ Setting how loop playback stops

- Turn ③ for the unit using the looper.

```
[LOOPER]   LP-MONO           [LOOPER]   LP-MONO
Time Undo Stop  VOL          Time Undo Stop  VOL
♪×8      ▭▭▭▭                ♪×8      ▭▭▭▭
     OFF  STOP   80               OFF FADE OUT  80
```

STOP
Stop playback immediately.
FINISH
Play to the end and then stop.
FADE OUT
Stop after fading out.

■ Adjusting the looper volume

- Turn ④ for the unit using the looper.

```
[LOOPER]   LP-MONO           [LOOPER]   LP-MONO
Time Undo Stop  VOL          Time Undo Stop  VOL
♪×8      ▭▭▭▭                ♪×8      ▭▭▭▭
     OFF FADE OUT  80              OFF FADE OUT  100
```

> **NOTE**
>
> The setting range is 0–100.

40

Using the pedal

Using a connected pedal

■ Setting up the connected pedal

You can set a pedal effect to be assigned to the connected pedal.

- Press [MENU] to open the MENU screen.

- Turn [PUSH TO ENTER] to select EX PDL.

| ADD | DELETE | CHAIN | PATCH | | SAVE | SWAP | TUNER | | SETUP | EXPDL | VER. | M.LVL |

- Press [PUSH TO ENTER] to open the EXT PEDAL screen.

| EXT PEDAL ＞ | | EXT PEDAL ON | | |

- Turn [PUSH TO ENTER] to turn the connected pedal ON/OFF.

| EXT PEDAL ＞ | | EXT PEDAL OFF | | |

HINT

When EXT PEDAL is ON, you can use a pedal effect.

41

Using the tap tempo function

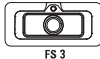Loopers, rhythms, delays and some modulation effects can be synchronized to the tempo.

To synchronize, first select an effect that has a parameter that can be synchronized and set that parameter (Time or Rate, for example) to a note value (♪ or ♩).
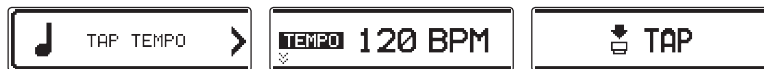
```
[DELAY]     Delay
Time  F.B  Mix  Tail
 ♩       30    70   OFF
```

Enabling tap tempo

- Press and hold [MEMORY/STOMP] in STOMP or MEMORY mode.

```
Υ TUNER ◁))    Υ TUNER ◁×    ♩ TAP
```

⌄

- Press [FS 3] to open the TAP TEMPO screen.

```
♩ TAP TEMPO  >    TEMPO 120 BPM    ⬇ TAP
```

Setting the tempo

- Press [FS 3] at least twice at the desired tempo.

```
[FS 3]    [FS 3]    [FS 3]
```

⌄

- This sets the tempo.

```
♩ TAP TEMPO  >    TEMPO 120 BPM    ⬇ TAP
```
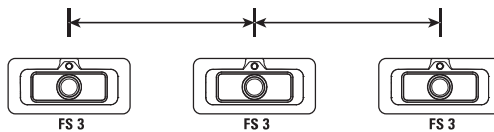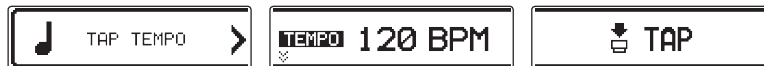
HINT

You can also turn ◯ for the center unit to adjust the tempo.

42

Ending tap tempo setting

- Press ⬚MEMORY/STOMP when the TAP TEMPO screen is open.

Restoring default settings and patches

- While pressing ⭕(PUSH TO ENTER), set the POWER switch to ON.

⌄

- Turn ⭕(PUSH TO ENTER) to select YES.

```
ALL INITIALIZE
 Are you sure?
 YES   NO
```

> **HINT**
> Select NO to cancel initialization.

⌄

- Press ⭕(PUSH TO ENTER) to initialize.

⌄

- "Complete!" will appear on the display when initializing completes.

```
ALL INITIALIZE
   Complete!
```

> **HINT**
> Executing the All Initialize function will restore all the settings of the **B3n**, including its patches, to factory defaults. Do not use this function unless you are certain that you want to do this.

43

Updating the firmware

Checking the firmware version

- Press [MENU] to open the MENU screen.

- Turn (PUSH TO ENTER) to select VER.

| ADD | DELETE | CHAIN | PATCH | | SAVE | SWAP | TUNER | | SETUP | VER. | M.LVL |

- Press (PUSH TO ENTER) and check the version.

| VERSION ❯ | | SYSTEM
1.00 | | PRESET
1.00 | BOOT
1.00 |
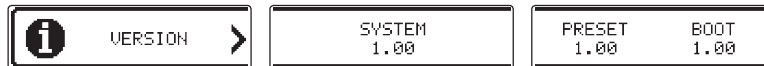
Updating the firmware

■ To download the latest firmware

Visit the ZOOM Website (http://www.zoom.co.jp/).

• Connect the **B3n** to a computer using a USB cable.
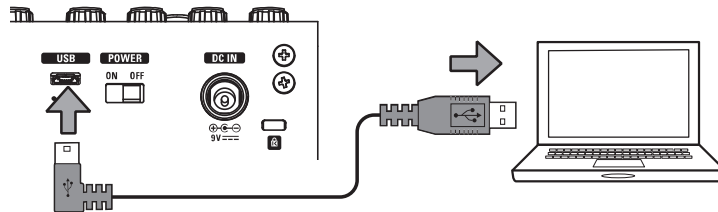
• While pressing both [FS 1] and [FS 2], set the POWER switch to ON.

• Launch the version update application on your computer, and execute the update.

```
FIRMWARE UPDATE
Ready for
firmware update!
```
>
```
FIRMWARE UPDATE
Now Writing...
Keep Connect To PC
```

NOTE
Do not disconnect the USB cable during the update.

HINT
See the ZOOM website for instructions about how to use the application.

• "Complete!" will appear on the display when updating completes.

```
FIRMWARE UPDATE
Complete!
Please Restart
```

• Set the POWER switch to OFF.

HINT
Updating the firmware version will not erase saved patches.

45

Troubleshooting

No sound or very low volume

- Confirm that the POWER switch is set to "ON".
- Check the connections (→P4–5).
- Adjust the patch level (→P17).
- Adjust the master level (→P22).
- If you are using the expression pedal to adjust the volume, adjust the pedal position until the volume level is suitable.

There is a lot of noise

- Check shielded cables for defects.
- Use only a genuine ZOOM AC adapter.

An effect is not working

- If limits on effect processing capacity, the number of units or the amount of resources used are exceeded, effects will be bypassed and the following message will appear (→P9).
  PROCESS OVERFLOW

Expression pedal does not work well

- Confirm the setting of the connected pedal (→P41).

Rhythm List

No.	PatternName	TimSig	No.	PatternName	TimSig	No.	PatternName	TimSig
1	GUIDE	4/4	24	R&B1	4/4	47	Jazz2	4/4
2	8Beats1	4/4	25	R&B2	4/4	48	Fusion	4/4
3	8Beats2	4/4	26	70s Soul	4/4	49	Swing1	4/4
4	8Beats3	4/4	27	90s Soul	4/4	50	Swing2	4/4
5	16Beats1	4/4	28	Motown	4/4	51	Bossa1	4/4
6	16Beats2	4/4	29	HipHop	4/4	52	Bossa2	4/4
7	16Beats3	4/4	30	Disco	4/4	53	Samba1	4/4
8	Rock1	4/4	31	Pop	4/4	54	Samba2	4/4
9	Rock2	4/4	32	PopRock	4/4	55	Breaks1	4/4
10	Rock3	4/4	33	IndiePop	4/4	56	Breaks2	4/4
11	ROCKABLY	4/4	34	EuroPop	4/4	57	Breaks3	4/4
12	R'n'R	4/4	35	NewWave	4/4	58	12/8 Grv	12/8
13	HardRock	4/4	36	OneDrop	4/4	59	Waltz	3/4
14	HeavyMtl	4/4	37	Steppers	4/4	60	JzWaltz1	3/4
15	MtlCore	4/4	38	Rockers	4/4	61	JzWaltz2	3/4
16	Punk	4/4	39	Ska	4/4	62	CtWaltz1	3/4
17	FastPunk	4/4	40	2nd Line	4/4	63	CtWaltz2	3/4
18	Emo	4/4	41	Country	4/4	64	5/4 Grv	5/4
19	TomTomBt	4/4	42	Shuffle1	4/4	65	Metro3	3/4
20	Funk1	4/4	43	Shuffle2	4/4	66	Metro4	4/4
21	Funk2	4/4	44	Blues1	4/4	67	Metro5	5/4
22	FunkRock	4/4	45	Blues2	4/4	68	Metro	
23	JazzFunk	4/4	46	Jazz1	4/4			

Specifications

Effect types	80 types	
Number of simultaneous effects	7	
Number of user patches	150	
Sampling frequency	44.1 kHz	
A/D conversion	24-bit with 128x oversampling	
D/A conversion	24-bit with 128x oversampling	
Signal processing	32-bit	
Frequency characteristics	20–20 kHz +1 dB, -3 dB (10 kΩ load)	
Display	128×32 dot-matrix LCDs (3)	

Input **INPUT**	Standard monaural phone jack
	  Rated input level: -20 dBu
	  Input impedance(line) : 470 kΩ	

AUX IN	Stereo mini jack
	  Rated input level: -10 dBu
	  Input impedance(line) : 10 kΩ	

Output **R**	Standard monaural phone jack
	  Maximum output level:
	  +5 dBm (with output load impedance of 10 kΩ or more)	

L/MONO/PHONES	Standard stereo phone jack (combined line/headphone)
	  Maximum output level:
	  Line +5 dBm (with output load impedance of 10 kΩ or more)
	  Headphones 15 mW +15 mW (into 32 Ω load)	

Equivalent input noise	119 dBu	
Noise floor (residual noise)	–100 dBu	
Control input	FP02 input	
Power	AC adapter DC 9 V (center minus plug), 500 mA (ZOOM AD-16)	
Dimensions	**B3n**	181 mm(D) X 234 mm(W) X 58 mm(H)
USB	USB MIDI USB Micro-B	
Weight	**B3n**	1.28 kg
Options	FP02 expression pedal	

• 0 dBm=0.775 Vrms