

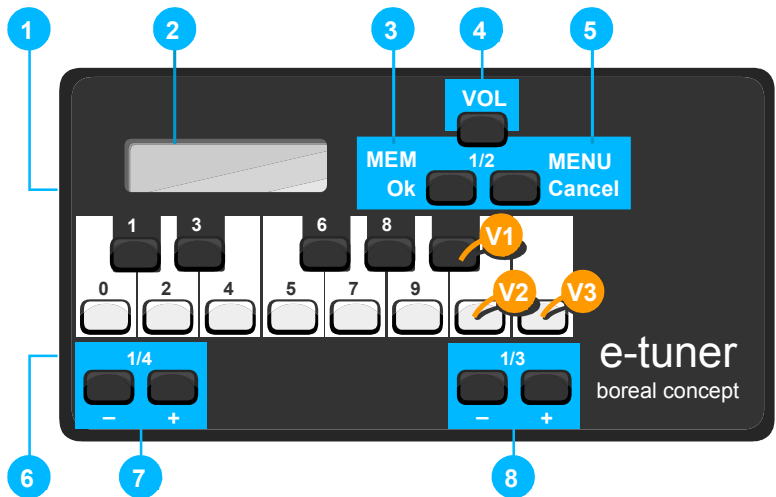
Turning on

- Set the switch (located on the left side of the machine) to the **ON** position (marker).
- When the unit is on and is not used for more than 10 seconds, it goes into sleep mode (the screen turns off).
- To leave the sleep mode, just hit any button on the unit.

Turning off

- Set the switch (located on the left side of the machine) to the **OFF** position (no marker).

Description of the unit



- 1 ON / OFF button
- 2 Screen
- 3 Memory recall / Ok (Semi-tone down step)
- 4 Volume
- 5 Menu / Cancel (Semi-tone up step)
- 6 Headphone
- 7 Quarter-tone step
- 8 Third-tone step

Key	0	1	2	3	4	5	6	7	8	9	V1	V2	V3
US Notes	C	C#	D	D#	E	F	F#	G	G#	A	A#	B	C
EU Notes	Do	Do#	Ré	Ré#	Mi	Fa	Fa#	Sol	Sol#	La	La#	Si	Do

Play a note

To play a simple note:

- Press and hold the keyboard note you wish to hear.
- Release the key to stop the sound.

To play a note altered by a semi-tone:

- Press and hold the keyboard note you wish to hear and press once or several times on the **MEM** or **MENU** keys to lower or raise the sound in semi-tone steps.
- Release the key to stop the sound.

To play a note altered by a third-tone:

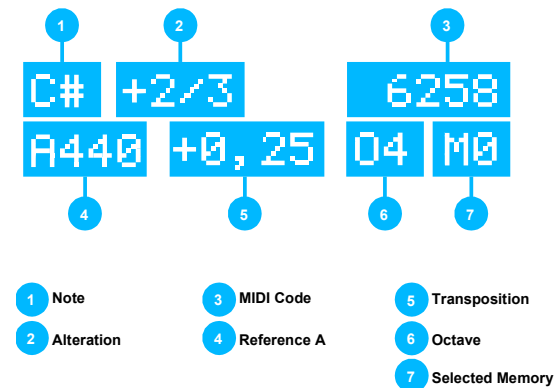
- Press and hold the keyboard note you wish to hear and press once or several times on the **-** or **+** keys on the right of the unit to lower or raise the sound in third-tone steps.
- Release the key to stop the sound.

To play a note altered by a quarter-tone:

- Press and hold the keyboard note you wish to hear and press once or several times on the **-** or **+** keys on the left of the unit to lower or raise the sound in quarter-tone steps.
- Release the key to stop the sound.

Note: it is possible to play a note altered by a third-tone by pressing and holding the **-** or **+** keys and then pressing and holding the note keyboard note (that note can be altered again if desired). The same thing can be done with the quarter-tone alterations.

Description of the screen prompts



- 1 Note
- 2 Alteration
- 3 MIDI Code
- 4 Reference A
- 5 Transposition
- 6 Octave
- 7 Selected Memory

Change volume

- Press the **VOL** key.
- Set the volume using the **-** and **+** keys.
- Press **Ok** or play a note.

Note: there are 9 setting levels (1 to 9).

Use the metronome

Configuring the rhythm of the metronome:

- Press the **MENU** key.
- Scroll the menu with **-** and **+** keys until you reach **"Metronome ?"** then press **Ok**.
- Press **-** or **+** to change the beats in steps of beats per minute (Bpm) or enter the desired rhythm with the **0** to **9** keys (030 to 240 Bpm) then press **Ok**.

Start the metronome:

- Press the **MENU** key.
- Scroll the menu with **-** and **+** until you reach **"Metronome ?"** then press **Ok**.
- Press **Ok** to start the metronome then **Ok** a second time to return to the normal operation mode.

Stop the metronome:

- Press the **MENU** key.
- Scroll the menu with **-** or **+** until you reach **"Metronome ?"** then press **Ok**.
- Press **Cancel** to stop the metronome then **Cancel** a second time to return to the normal operation mode.

Changing octaves

- Select memory 0 (Octave changes only affect memory 0).
- Press the **MENU** key.
- Scroll the menu with **-** or **+** until you reach **"Change octave ?"** then press **Ok**.
- Select the octave using the **+** and **-** keys then press **Ok**.

Note : octaves 3, 4 and 5 are available.

Transposing the keyboard

This function allows you to transpose an entire memory by + or - 2,50 tone.

- Select the memory in which the transposition is to be effective .
- Press the **MENU** key.
- Scroll the menu with **-** or **+** until you reach **"Transposition ?"** then press **Ok**.
- Press the **-** or **+** key to select the sign of the transposition.
- Enter the value of the transposition using the **0** to **9** keys (0 to 2,50 ton). For a null transposition, enter the value +0,00.
- Press **Ok** to validate or **Cancel** to cancel.

Note: the chosen transposition is effective only for the previously selected memory.

Change the A reference

- Select memory 0 (Changing the A reference is only possible when the unit is in the 0 memory).
- Press the **MENU** key.
- Scroll the menu with **-** or **+** until you reach **"Config freq A ?"** then press **Ok**.
- Enter the reference A using keys **1** to **9** (360 Hz to 499Hz).
- Press **Ok** to validate or **Cancel** to cancel.

Note: changing the reference A only affects the 3 octaves of memory 0.

Changing memories for the keyboard

- Press **MEM**.
- Select the desired memory with keys **0** to **9** (Memories 1 to 9 for the programmable memories, 0 for the reference memory) or press **Cancel** to cancel.

Configuring a memory

- Select the desired memory (see "Changing memories for the keyboard").
- Press **MENU**.
- Scroll the menu with **-** or **+** until you reach **"Config note ?"** then press **Ok**.
- Press the key of the memory **MEM** to configure.
- Enter the desired value of the note in midi cents using keys **0** to **9**.
- Press **Ok** to validate or **Cancel** to cancel.
- Repeat the operation for each note of the memory.

Note: by default, all the memories are identical to memory 0 (chromatic mode).

Playing a programmed note

- Select the memory in which the note has been programmed.
- Press the key on which the note has been programmed.

Playing the different notes of a memory

- Select the desired memory.
- Press and hold a note.
- Press **MENU** to play the next programmed note.
- Press **MEM** to play the previous programmed note.

Note: this function isn't available in memory 0.

Wear of the battery

An indication of the wear of the battery is available by pressing the **MENU** key.



Changing the battery

- Turn off the unit.
- Open the device by unscrewing the two screws located **in the corners** of the back of the unit.
- Connect a new **9 Volt 6LR61** battery.
- Close the device.
- Turn on the unit.

Frequency (Hertz) following midi code

$$Frequency = 8,1758 \times 2^{\frac{Midi\ code}{1200}}$$

Midi code following frequency (Hertz)

$$Midi\ code = \log_2 \left(\frac{Frequency}{8,1758} \right) \times 1200$$

Memory 0: Chromatic scale

Octave 4:

Key	Note US	Note EU	Midi Code	Frequency (Hz)
0	C	Do	6000	261,626
1	C#	Do#	6100	277,183
2	D	Ré	6200	293,665
3	D#	Ré#	6300	311,127
4	E	Mi	6400	329,628
5	F	Fa	6500	349,228
6	F#	Fa#	6600	369,994
7	G	Sol	6700	391,995
8	G#	Sol#	6800	415,305
9	A	La	6900	440,000
V1	A#	La#	7000	466,164
V2	B	Si	7100	493,883
V3	C	Do	7200	523,251

Other conversion tables are available at www.e-tuner.fr

Technical specs

- Size : L x W x H = 128,5 x 67 x 33 mm (with clip).
- Weight : **e-tuner** 0,170 Kg (without battery), 0,215 Kg (with battery) .
- Earphone connected by a mono 3.5 mm jack plug .
- Weight of the metallic attachment for music stands : 150 g.
- Power supply : 9 Volt 6LR61 Alkaline battery supplied.
- Metronome : tempo scale from 30 to 240 BPM (beats/minute).
- Calibration of reference A : from 360 Hz to 499 Hz (in steps of 1 Hz).
- Reference tones : from 4453 midi cents (C3 / A 360 Hz) to 8715 midi cents (C6 / A 499 Hz).

Note: the technical specifications and the aspect of **e-tuner**, the brand and model of the supplied ear-phone may vary for improvement purposes without prior notice.

Maintenance

- **When the device gets dirty**, (fingerprints, dust, filth...) clean it gently with a clean and dry cloth. Do not use products which contain abrasives or solvents as well as inflammable products (benzene, diluents, alcohol...).
- **Rain, humidity and strong heat** can harm **e-tuner**. Do not leave it in the sun for long periods of time or in the vicinity of heaters.
- **Avoid insertion of objects or liquids :**
Never place a receptacle containing liquid next to **e-tuner** ; should the liquid tip over, or drip, it could cause hazard, a short circuit or an electrocution.
Avoid opening the back cover, except to change the battery : at that time, make sure no metallic objects fall into the device (paper clips, screws...) Make sure you connect the poles of the battery to the corresponding connectors.
- **To lengthen the life of the battery**, think of using the On/Off switch when not using **e-tuner** for an extended period of time. For best performance, we recommend using good quality batteries (cf. included battery).

Warranty

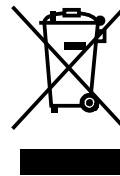
CAUTION ! Your **e-tuner** is guaranteed for one year (parts and maintenance work) following the date of purchase. In case of wear caused by a non-proper use of **e-tuner** (shocks, insertion of objects or liquids, bad connection of the battery, etc...) Boreal Concept cannot be held responsible.

CE brand for harmonized European norms



The CE brand placed on the **e-tuners** means these devices obey to the EMC (89/336/CEE) guideline as well as the guideline concerning the CE (93/68/CEE) brand

DEEE guidelines conformity



On this device a pictogram attests to the device's conformity to the European guideline 2002/96/CE concerning electrical and electronic equipment refuse. This guideline stipulates the legal boundaries of the selective collecting and recycling of used devices in the European Union.

Your **e-tuner** contains valuable material which could be recuperated or recycled.
Do not throw it in your garbage can, place it in a public local dumpsite

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