

dualo du-touch



user guide

A word from the instrument maker

Welcome to the dualo community. You are among the first-ever players of the dualo, and we congratulate you on your choice.

The **du-touch** is still under development, as is its user guide. As such, we welcome any comments you may have on how the **du-touch** works, which you can submit via the page dualo.org/en/support. We regularly produce updates. So, before anything else, make sure that the software version of your **du-touch** corresponds to the version of this user guide, also available from dualo.org/en/support.

The **du-touch** is a musical instrument, and as such no user guide teaches you how to play it. The purpose of this guide is to answer questions you may have, but it does not constitute a method. You'll be able to find du-lessons on the dualo YouTube channel and on the dualo.org/en/media page, with a series of tutorials for learning how to handle the du-touch.

*Have a great time getting down with your **du-touch**.*

from the du-team

dualo du-touch

user guide Version **01 - 0021**

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Contents of the pack

USB cable + international AC adaptator

quickstart paper

du-touch

cotton protective cover



The musical instrument

The **du-touch** is a new musical instrument with its own special way of being played. It's a complete instrument, in the sense that it's a controller, a synthesizer and a sequencer all at the same time. So, in order to understand how it works, here are five elements which, when combined, make it possible to play and share music:



play: it's the **du-touch** as a *machine* which captures the gestures of the musician. (*Don't look for the button, this is the **du-touch** itself*)



sound: everything involving *the timbre* in the broad sense, choosing a sound, adding effects, etc.



music: in the sense of *musical text*, recording or playing a piece of music, tracks, or anything that might be found in music notation.



settings: for adjusting the various parameters of the first three elements.



connection: everything to do with links and sharing with the outside world, other machines or other members of the community and, of course, the **du-station** software.

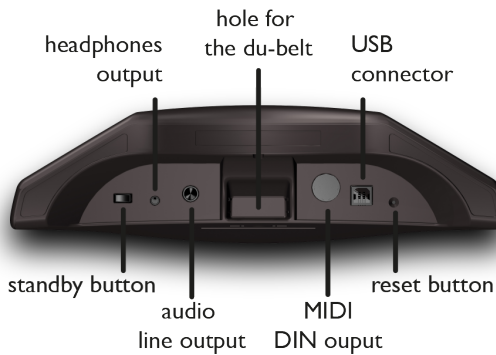
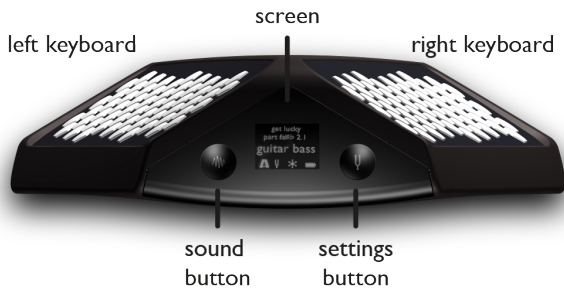


play

The du-touch

The **du-touch** is a controller, in other words a machine that captures the gestures of the musician to transmit them to the internal synthesizer or to a MIDI interface. It does not have speakers, so you need to connect it to an amp or a headset, or use it as a MIDI controller.





Connecting to a headset or an amp

Plug in your headset or headphones to the headset mini-jack socket.

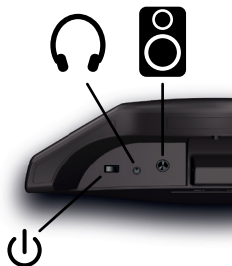
If you are using an amp, plug your jack into the audio line-out. Make your connections before turning the equipment on. The **du-touch** produces bass sounds, so you're advised to use a bass or keyboard amp, or even better a sound system, rather than a guitar amp.

The **du-touch** is stereo but works very well in mono. Take care however not to use a stereo jack on a balanced mono input. If in doubt, use a mono jack.

Turning the du-touch on or off

Briefly press the standby button beneath the du-touch to turn it on. The music button and screen light up after several seconds, and the instrument is ready to play.

Press the same standby button to turn the **du-touch** off.



Adjusting the general volume

Adjust the volume by stroking the touch strip on the front of the **du-touch**. The volume value appears on the screen.

Touch the bottom of the strip to turn the volume to zero (mute). Touch the top of the strip to return the volume to what it was before being zeroed (unmute).

There are other volumes for sounds, pieces of music, loops and metronome.



Positioning the instrument

Place your **du-touch** on your lap and let it rest against your midriff. It stays in place without needing to be held. Your hands (including your thumbs) are over the keyboards, for maximum freedom of movement. For greater stability we recommend the use of [the du-belt*](http://the-du-belt.org), the Dualo carry strap.

** available as an option from dualo.
org*

Playing notes

To play notes, hit the keys with your fingertips. Simply pressing isn't effective, you need to move your fingers rapidly. The harder you hit, the louder the sound. It is possible to *adjust the sensitivity of the keys, display a scale* on the keyboard or display *the names of the notes on the screen*.

Holding a note

For playing a sustained note without keeping the key depressed, play and hold the music or sound button before releasing the note or chord. To release the sustained note, play the same notes again or double-click the sound button.

Layout of the notes

On the Dualo, as one goes away from the head, the notes jump up in thirds, both major thirds (inward) and minor thirds (outward). So two hands must co-operate to play all the notes needed: one hand must play the first (root), third, fifth and seventh, etc. notes, while the other hand plays the second, fourth, sixth, eighth (octave), etc. notes. To play a chord you just need to play three successive keys. See [the dualo principle](#), to find out more.

It is possible to *display the notes on the screen*.



MIDI

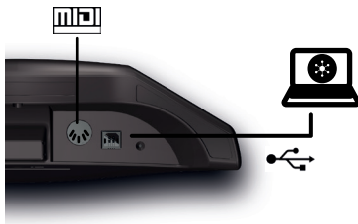
You can connect the **du-touch** to a hardware synthesizer via the MIDI OUT jack underneath the **du-touch**.

You can also control virtual synthesizers via USB. The **du-touch** is recognized as a MIDI controller; with no drivers to be installed, whether on Mac or PC.

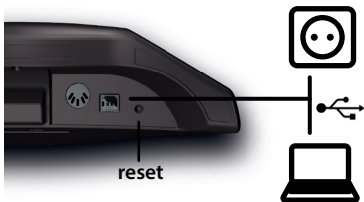
The MIDI notes are sent as soon as the **du-touch** is turned on, connected and played. The MIDI notes sent are the same as those sent to the internal synthesizer. Note that the layout of the notes will differ depending on whether it concerns an [harmonic or a percussive instrument](#).

To choose the output channel, hold down the music button and select one of the 7 keys at the bottom of the right keyboard. The notes played are then sent as MIDI over the chosen channel. If you save a loop, it is also output as MIDI with the channel on which it was recorded. This means that it is possible to use the **du-touch** as a controller-sequencer with an external synthesizer.

Updating the du-touch



After installing and starting up the **du-station** software, connect your **du-touch** via USB, and if it is not up-to-date the most recent update will be proposed. You should then download the corresponding [user guide version](#).



Recharging the du-touch

Connect your **du-touch** with the USB cable provided to a computer or, preferably, for a faster charge, to an electrical outlet with the charger supplied (use only this charger), into which you will have clipped the plug adapter suited to your country. The charge level is then displayed on screen. In all cases, it is possible to play and recharge at the same time. It takes around 5 hours to fully recharge the **du-touch**.

If there's a problem

If you hear a continuous note and you can't turn it off, which may occur, for example, if you've played a [sustained note](#), double-click the sound button - this is called **PANIC!** mode - and all the notes and all the sounds will stop immediately.

If the **du-touch** no longer responds, insert the end of a ballpoint pen in the small reset hole alongside the USB socket. This reboots the **du-touch**.

For any other problem, log on to our platform: dualo.org/en/support.



Adjusting a du-touch setting

Press then release the settings button to the right of the screen, represented by a tuning fork.

Each key at the top of the right keyboard then corresponds to a setting, and its name is displayed on-screen. Its value can then be modified using the touch strip.

You can run through each of the settings. Touch the settings button again to return to play mode.

Your settings are now saved in the system memory and will be applied to all the sounds and all the pieces of music, even after restart.

The left keyboard remains active, so you can test your settings without quitting the settings menu.

Press the settings button again to quit the menu.



display note: note name display

off: the screen is off in play mode (battery-saving)

italian: key notation in Latin countries (do, ré, mi...)

english: universal English key notation (c, d, e, f, g ...)

german: German notation with the h.

The names of the notes and their velocities are displayed on-screen while you play.

lighted keys: lighting up the keys played

on: the keys light up red when played

off: no lighting, saves on battery life, but less stylish

key brightness: to adjust the key brightness

The keyboard lights consume a lot of power. To extend usage time when running off batteries, use a suitable brightness level.

key sensitivity: for adjusting the sensitivity of the keys

The keys of the **du-touch** are sensitive to the keystroke dynamics. If you hit the key hard, the sound is louder: this is called play velocity or nuance.

flat: whatever the intensity of the strike, the velocity is maximum (127)

standard: default curve, from 40 to 120

piano/forte: velocity from 0 to 127. This is the curve that is the hardest to

du-touch info: access the du-touch info

Stroke the touch strip from bottom to top to scroll through the following info:

- battery level
- **du-touch** name
- **du-touch** owner's name
- serial number
- [internal program](#) (firmware) version number
- sound bank version number
- firmware licenses

equalizer: general equalizer

Depending on your amplification system or the place in which you are playing, you may sometimes have to adjust the timbre of the sound output. The **du-touch** offers you several equalization presets that you can select by stroking the touch strip.

flat: flat equalization by default, non-modifiable

acoustic: accentuates the middle-high band and reduces the middle-low band

metallic: accentuates the middle-high band

bass boost: accentuates the basses

large spectrum: reinforces the mediums

and 3 **user presets**, flat by default, that you can modify.

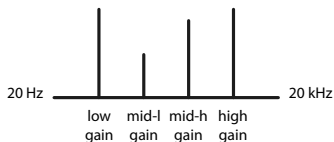
When one of these presets has been selected, you have access at the bottom of the right keyboard to other keys that can be used for adjusting the gains of the 4 frequency bands manually.

low gain: 20 Hz to 250 Hz band

mid-l gain: 250 Hz to 1 kHz band

mid-h gain: 1 kHz to 6.7 kHz band

high gain: 6.7 kHz to 20 kHz band.



reverb: general reverb

Reverb is an effect that gives an impression of space, as if you were in rooms of different sizes, with simulated reverberation of the sound against the walls. This is obtained by superimposing a very fast echo. The **du-touch** has several reverb presets that you can select in this way by stroking the touch strip.

off: no reverb, non-modifiable **cabinet:** small room

room: large room **hall:** concert hall

supernatural: reverb effect without the direct sound

and 3 **user presets**, **off** by default (that you can modify).

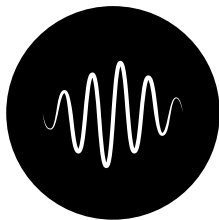
When a user preset has been selected, you have access at the bottom of the right keyboard to 4 keys for adjusting your reverb:

dry level: direct sound level **wet level:** effect level

time: reverb time (the setting that gives the room size)

pre-delay time: time to the first reflection (roughly the position of the instrument in the room).

Then, for each **du-sound**, it is possible to adjust its reverb level independently depending on the general reverb (see [reverb level](#)).



sound

The du-sounds

The **du-touch** is a synthesizer: it has internal sounds that we call **du-sounds**.

Hold down the sound button: each key then corresponds to a sound, with its name and category appearing on-screen when selected. Release the sound button and the sound is loaded, ready to be played.

The layout of the **du-sounds** is organized according to the following logic: on the right keyboard we have traditional sounds, and on the left keyboard electro-sounds, arranged from the most percussive, at the top, to the most melodic, at the bottom.





traditionnel ————— percussif ————— électro

chantant

Selecting a du-sound preset

Each **du-sound** can be modified, by adding effects for example.

You can have 4 different presets (settings) for each **du-sound**. To select a preset, press several times on the chosen **du-sound** key. All the settings that you now make will relate to this preset only.

Adjusting the volume of a du-sound

Hold down the sound button and stroke the touch strip to adjust the volume of the preset for the selected **du-sound**. This affects neither the general volume nor the volume of the loops.

Touch the bottom of the strip to turn the volume to zero (mute). Touch the top of the strip to return the volume to what it was before being zeroed (unmute).

Updating the sound bank

After installing and starting up the **du-station** software, connect your **du-touch** via USB. If its sound bank is not up-to-date, you will be prompted to install the most recent update.



Adjusting a du-sound setting

To adjust a setting for the selected **du-sound**, hold the sound button down and press the settings button, without releasing the sound button, then release both buttons. Each key at the top of the right keyboard then corresponds to a setting for the selected **du-sound**; its name is displayed on the screen and you can modify its value using the touch strip.

In this way you can run through all the settings of the **du-sound**. Touch the settings button again to return to play mode.

Your settings are saved in the preset memory of the selected **du-sound**.

The left keyboard remains active, so you can test your settings without quitting the settings menu.

Press the settings button again to quit the menu.

panning

The **du-touch** is a stereo instrument, and so it is possible for you to adjust the left/right position of each **du-sound**.

Right



Left

octave

The keyboard of the **du-touch** extends over 5 octaves but certain **du-sounds** can have up to 8 octaves. It is therefore possible to raise or lower the keyboard by several octaves. This setting is only valid for harmonic **du-sounds** (not percussive).

multi-note

By default, a key corresponds to a note, but it is possible to play several notes by pressing a single key. This setting is only valid for harmonic **du-sounds**.

off: multi note off

on: multi-note on - you can now designate the desired note pattern on the left keyboard. The red key corresponds to the reference note, and you can have up to 5 notes in all.

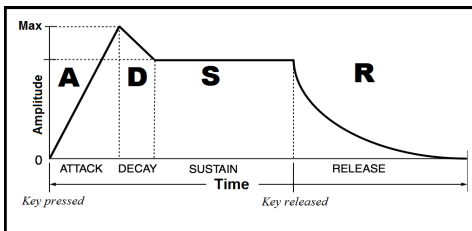
portamento

All the **du-sounds** are polyphonic, i.e.: you can play several notes at the same time. Yet it is possible to set them as monophonic and then add a glide effect (portamento) between one note and another; if you don't release the first one while playing the second.

Nil value corresponds to polyphonic mode.

adsr: ADSR presets

Besides effects, on the **du-touch** it is possible to modify the very nature of the sound. For this, you need to understand how a virtual sound works. Here is a diagram that shows how sound evolves over time in 4 stages:



When you select the ADSR key, you can access several presets by stroking the touch strip:

off: no modification

long attack

long release

short decay

long decay

and 3 **user presets**, **off** by default (that you can modify).

At the bottom of the right keyboard, 3 other keys then appear to modify the durations of each of these stages.

attack time (A)

decay time (D)

release time (R).

equalizer

The **du-touch** has a general equalizer but it is also possible to adjust the timbre independently for each preset of the **du-sound**.

flat: flat equalization by default, non-modifiable

and 3 user presets, **flat** by default, that you can modify.

When one of these presets has been selected, you have access at the bottom

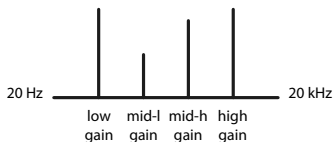
of the right keyboard to other keys that can be used for adjusting the gains of the 4 frequency bands manually.

low gain: 20 Hz to 50 Hz band

mid-l gain: 250 Hz to 1 kHz band

mid-h gain: 1 kHz to 6.7 kHz band

high gain: 6.7 kHz to 20 kHz band.



vibrato

Pitch variation (note height) according to an oscillation frequency, an effect often produced by guitarists on their strings.

off: no vibrato

smooth: slow and light vibrato

hard slow: slow and deep

hard fast: fast and deep

and 4 **user presets**, **off** by default (that you can modify).

You can then adjust two settings at the bottom of the right keyboard:

depth: pitch depth or amplitude, in hundredths of a semitone

rate: vibrato speed.

wah-wah

The wah-wah is a filter that scans the frequencies with a greater or lesser degree of resonance (accentuated frequencies). Stroke the touch strip to access the various presets:

off: no wah-wah, non-modifiable

low small: low-pass filter with low resonance

low big: low-pass filter with high resonance

small band: band-pass filter with low resonance

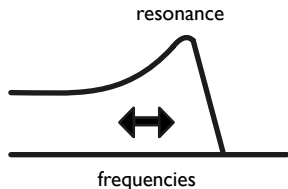
big band: band-pass filter with high resonance

and 3 **user presets**, **off** by default (that you can modify).

At the bottom of the right keyboard there are 2 keys for adjusting each of these presets:

filter res: resonance gain

filter freq: wah-wah position.



disto: distortion

Distortion is a deformation of the sound by saturation, to "dirty up" the sound.

Stroke the touch strip to select a disto preset.

off: no disto, non-modifiable

tube low: simulates a tube amp, with distortion working on the low frequencies

tube medium: simulates a tube amp, with distortion working on the medium frequencies

tube high: simulates a tube amp, with distortion working on the high frequencies

smooth: tube medium, but lighter

fuzz: simulates a fuzz pedal

grunge: like fuzz but higher

metal: like grunge but with more gain.

At the bottom of the right keyboard, 3 keys for adjusting each of these presets:

filter freq: frequency band subject to distortion

drive: distortion gain (increasing the drive automatically reduces the post gain).

post gain: to attenuate the distortion

modulations

Modulation of the timbre, the pitch, the pan or the volume of the sound. Stroke the touch strip to choose one of these effects. At the bottom of the right keyboard, several keys are available for adjusting each of these presets:

off: no modulation, non-modifiable

chorus: timbre dephasing and modulation, simulates several singers

effect level

rate: modulation frequency

depth: modulation depth

flanger: more accentuated chorus

effect level

feedback: accentuation level

rate: modulation frequency

depth: modulation depth

phaser: pan oscillation

rate: modulation frequency

depth: modulation depth

tremolo: volume modulation

rate: modulation frequency

depth: modulation depth

rotary: simulates a Leslie speaker, tremolo with pan

effect level

rotary speed: modulation frequency

depth: modulation depth

retro-futuristic: a mixture of all this

delay: echo

It's the same idea as reverb, but instead of being in a room, you're facing a mountain with the sound bouncing off its sides. It is a sound repetition, a digital echo.

off: no delay

mono short: fast and short delay

mono long: slow and long delay

stereo v short: very fast and very short

stereo short: fast and short

stereo long: slow and long

stereo v long: very fast and very long

infinity fb: infinite feedback.

At the bottom of the right keyboard, 4 keys for adjusting each of these presets:

mode: mono or stereo, in stereo the repetitions alternate left/right.

level: the volume of the repetitions, which decreases as the feedback evolves

time: the time between these repetitions

feedback: the number of repetitions

reverb level

The **du-touch** has a general reverb but it is possible to adjust the reverb level independently for each **du-sound**. This reverb level will relate to the general reverb selected.



music

The du-musics and du-loops

The **du-touch** is a sequencer which can be used to construct pieces of music that we call **du-musics**, each composed of 7 tracks of 3 or 4 loops that we call **du-loops** (i.e.: 24 **du-loops**). You can only play or record a maximum of one **du-loop** per track.

Hold down the music button, and each key of the left keyboard corresponds to a **du-music**. To select a **du-music**, press one of these keys and the name of the piece of music appears on-screen.

You can record up to 58 of them. It is then possible to save them and rename them or import them via a computer using the **du-station** software.

You can then freely share them with the dualo community.

The du-musics

Hold down the music button, and each key of the left keyboard corresponds to a **du-music**. Here is what their colors mean:



play



pause/stop



recorded



blank

Playing or stopping a du-music

To pause a **du-music**, press the green key on the left keyboard, it then turns orange. Press again to restart play. If you double-click, it stops, and starts again from the beginning of the **du-music**.

Deleting a du-music

Press down hard for one second on the key of the **du-music** that you wish to delete. Caution: all deletion is permanent.

Adjusting the volume of a du-music

Hold down the music button and stroke the touch strip to adjust the volume of the selected **du-music**. This does not affect the general volume or the volume of the **du-loops**. Touch the bottom of the strip to turn the volume to zero (mute). Touch the top of the strip to return the volume to what it was before being zeroed (unmute).

The du-loops

When you hold down the music button, the first 24 keys at the top of the right keyboard each correspond to a **du-loop** of the selected **du-music**. They are spread over 7 lines corresponding to the 7 tracks of 3 or 4 **du-loops**, of which only one can be activated per track.

Here is what their colors mean:



play



silence



primed



blank

By holding down the music button, you prepare the **du-loop** status (play/silence/primed) by simply pressing the corresponding keys in order to change their status. As soon as you release the music button your preparation is launched.

Priming or unpriming a du-loop

Before being recorded, a **du-loop** must be primed. The recording will begin with the first note played. To do this, hold down the music button and press a white key that corresponds to a blank **du-loop**. It then turns red and the **du-loop** is primed. You simply need to play in order to record the **du-loop**.

You can also quite simply prime a **du-loop** with a short click on the music button. If you haven't played any notes and you click again on the music button, the **du-loop** is unprimed.

Recording a du-loop

Click on the music button: the track is primed, i.e.: ready to be recorded from the first note played. Play your **du-loop** and click the music button again; your **du-loop** is then played in a loop from the first note played until the second click. Do the same for recording other **du-loops**; their lengths will be multiples of the first **du-loop** recorded.

Quick deletion of a du-loop

Double-click on the music button to delete the last **du-loop** recorded.

Deleting a du-loop

Press down hard for several seconds on the key of the **du-loop** that you wish to delete. Caution: all deletion is permanent.



Adjusting a du-music setting

To adjust a setting for the selected **du-music**, hold down the sound button and press the settings button, without releasing the sound button, then release both buttons. Each key at the top of the right keyboard corresponds to a setting for the selected **du-music**; its name is displayed on the screen and you can modify its value using the touch strip. Touch the settings button again to return to play mode.

Adjusting a setting for a particular du-loop

To adjust a setting for a particular **du-loop**, hold down the music button and double-click on the corresponding **du-loop** key. Each key then corresponds to a setting for the selected **du-loop**; its name is displayed on the screen and you can modify its value using the touch strip. Touch the settings button again to return to play mode.

transpose: transposing a du-music

Stroke the touch strip to select the number of semitones for the transposition. The displayed scale remains the same, but the notes produced are transposed.

scale: scale display

The scale can only be displayed if a harmonic **du-sound** is selected.

A scale on the **du-touch** is composed of a broken line on each of the keyboards, with one key from each row. The tonic note is orange and the other notes of the scale are green.

Select the mode with the touch strip and a tonic note by choosing a key on the left keyboard.

off: no display

major / minor harmonic / minor natural / dorian / mixolydian / major penta / minor penta

custom: design your scale yourself by pressing the keys on the left keyboard which switch successively from one color to the other. The key marks are repeated for the octave and are only valid for the selected **du-music**.

By default, it is the C scale that is displayed, with the C's in orange.

tempo: adjusting the tempo

Stroke the touch strip to adjust the tempo from 40 to 208.

click mode: metronome mode

The **du-touch** has an internal metronome, a friend for you. It can accompany you as a sound output or visually, with the flashing of the music button.

off: no metronome

sound: metronome sound only

light: music button light only

sound&light: both sound and light.

click level: adjusting the metronome volume

Stroke the touch strip to adjust the metronome volume. This does not affect the other volumes.

signature: accentuation of the downbeats

Stroke the touch strip to select the rhythmic signature. The metronome will play a different sound for the downbeats.

quantizer

Quantizing means aligning the notes in a loop over time divisions. This makes it possible to have **du-loops** in perfect sync with the tempo. It is strongly recommended for electro-music.

The best solution is to activate the metronome (*click level*) and select the smallest rhythm division that you wish to play.

1 beat: all the notes will be aligned to the click of a metronome

1/2: on the eighth notes

1/4: corresponds to the sixteenth note and is a default value which is suitable most of the time.

1/8: 32nd note

1/16: 64th note, more difficult to use.

du-loop volume: adjusting the volume of a du-loop

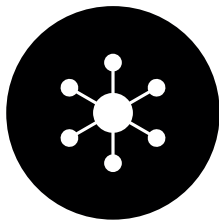
Hold down the music button, double-click on the key of the **du-loop** whose volume you wish to adjust and stroke the touch strip to adjust the volume of the **du-loop**. This does not affect the general volume or the volume of the **du-music**.

display score: display the musical score

Hold down the music button and double-click on the key of the **du-loop** that you wish to display, then press the *display score* key and select **on** or **off** using the touch strip.

adjusting the sound of a du-loop

Hold down the music button and double-click on the key corresponding to the **du-loop** whose sound you wish to adjust. All the keys, apart from the first two, correspond to **du-sound** settings of the **du-loop**. Changing these settings will only affect the **du-loop** and will not modify the presets of the original **du-sound**. The settings are the same as for the **du-sounds**.

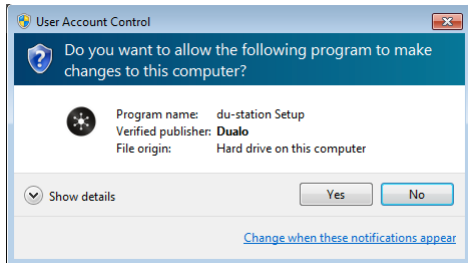


du-station

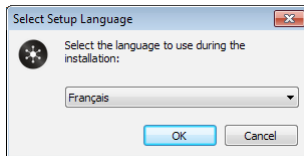
The **du-station** software is the interface between the du-touch and the du-community. Locally, it enables you to store your music. Connected to the Internet, it allows you to share your music with the other members of the community.

Windows installation

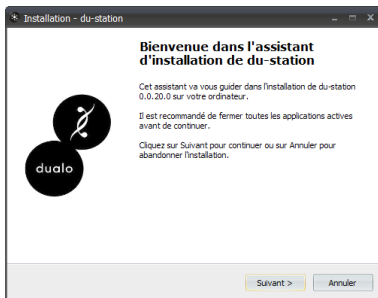
Download the du-station software from dualo.org/en/support, then run the installation program.



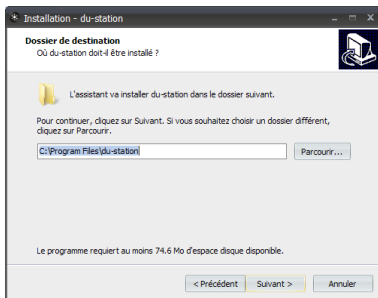
You are then asked to confirm the installation of the software; answer: "Yes".



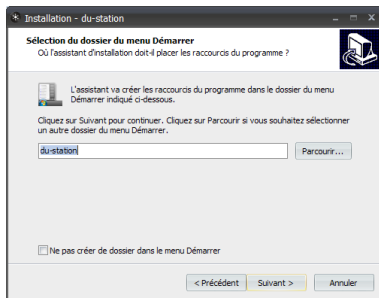
Select your language then click on "OK".



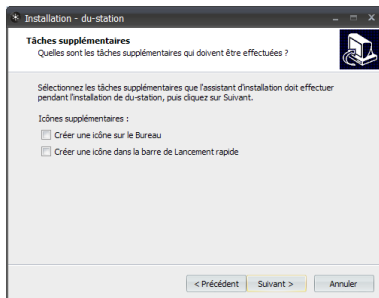
Close all active applications and click on "Next".



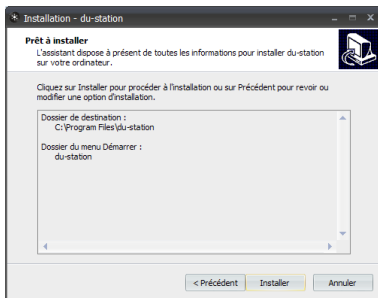
It is recommended to install the du-station in the "Program Files" directory. When prompted to do so, just click on "Next".



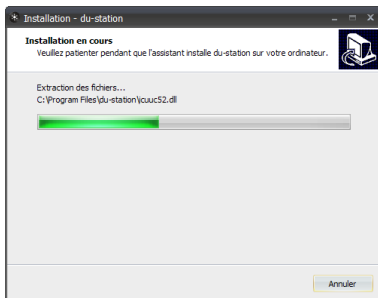
Click then on "Next" to launch du-station from the Start menu.



If you would like to run du-station from the desktop or the quick launch bar, check these options then click on "Next".



You can now run the installer: click on "Install".



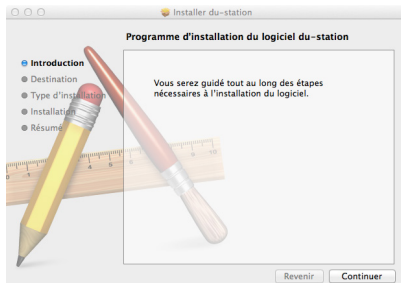
The installation begins. This can take several minutes.



When installation is complete, click on "Finish" and du-station launches automatically.

Installation on MAC OS X

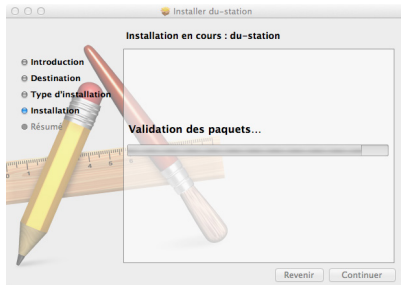
Download the du-station software from <http://dualo.org/en/support>, then run the installation program.



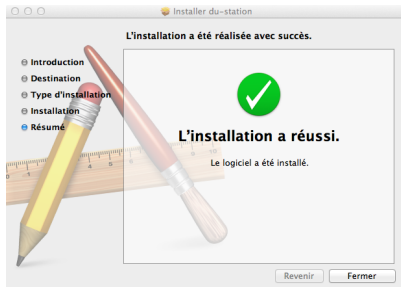
Click on "Continue".



Click on "Install".



Click on "Continue".



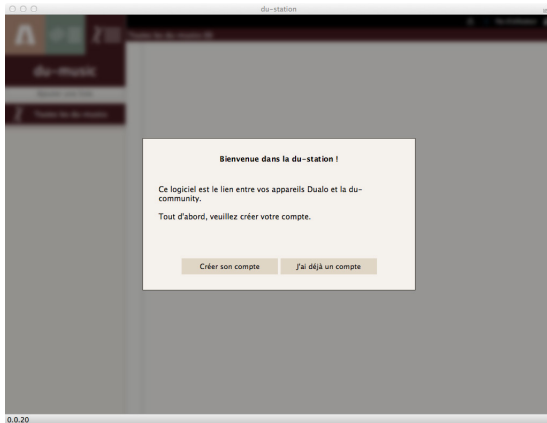
Once installation is complete, click on "Close". Run du-station from the "Applications" folder of your Mac.

Updating du-station

If an update is available, it will be automatically suggested when you run du-station.

Creating an account

To be able to use du-station, you need to create an account. This account will allow you, among other things, to share your creations with the other members of the community. Click on "Create an account".



Créer son compte

Login

Mot de passe

Confirmez le mot de passe

Adresse mail

Confirmez l'adresse mail

Merci,
et bienvenue dans la du-community

Un mail de confirmation a été envoyé à votre adresse.
Vous devez confirmer votre compte avant de pouvoir vous
connecter à la du-station

Choose a username and password and enter your e-mail address. A confirmation e-mail with a clickable link will be sent to you at this address to validate your subscription.

You can now log on to du-station.

Connection à la du-station

Login

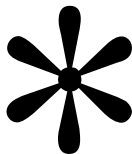
Mot de passe

☐ Me connecter au lancement de la du-station

Linking your du-touch with your account

When you connect your du-touch to your computer for the first time, **du-station** will propose to link your du-touch with the account that you have just created. You can link several du-touches with your account.

In this way, each du-music that you create with your du-touch will certify that you are in fact its creator.



accesso-

Charger + USB cable

The **du-touch** comes with its USB cable and charger. Aware that users are likely to do a lot of traveling, we've included plug adapters compatible with plug sockets worldwide.



The case

This small fabric case, supplied with your instrument, will protect it when it's not being played or when you're transporting it in a bag.



The du-belt*

This belt allows you to play the **du-touch** while standing. Pass the strap through the slot and fasten down with the Velcro. Make sure it is tight. Attach your **du-touch** to the hook. To ensure stability, the **du-touch** should rest against the sternum; Make sure the du-belt is fastened securely. You can adjust its position until you feel entirely comfortable.

The length of the strap can be adjusted. If, however, it proves to be too long or too short, you can replace it with one of your own belts.



The du-bag*

This is the made-to-measure bag for the **du-touch**. With the du-bag, you can transport your **du-touch** everywhere without fear of damaging it. You can stow your du-belt* away in the net on the outside. There's a small inner pocket for your jack or USB charger.

It's highly practical, and can be carried with a shoulder strap, as a rucksack or worn around the waist.

** available as an option from dualo. 59
org*

Index

A word from the instrument maker	2
Contents of the pack	3
The musical instrument	4
The du-touch	5

play **5**

Connecting to a headset or an amp	8
Turning the du-touch on or off	8
Adjusting the general volume	9
Positioning the instrument	9
Playing notes	10
Holding a note	10
Layout of the notes	10
MIDI	12
Updating the du-touch	12
If there's a problem	13
Recharging the du-touch	13

Adjusting a du-touch setting	14
display note: note name display	16
lighted keys: lighting up the keys played	16
key brightness: to adjust the key brightness	16
keys sensibility : ajuster la sensibilité des touches	17
du-touch info: access the du-touch info	17
equalizer: general equalizer	18
reverb: general reverb	19
The du-sounds	21

sound 21

Selecting a du-sound preset	24
Adjusting the volume of a du-sound	24
Updating the sound bank	24
Adjusting a du-sound setting	25
panning	26
octave	26
multi-note	26

portamento	27
adsr : presets d'ADSR	27
equalizer	28
vibrato	29
wah-wah	30
disto : distorsion	31
modulations	32
delay : echo	34
reverb level	35
The du-musics and du-loops	37
music	37
The du-musics	38
Playing or stopping a du-music	38
Deleting a du-music	38
Adjusting the general volume	39
The du-loops	39
Priming or unpriming a du-loop	40

Recording a du-loop	40
Quick deletion of a du-loop	40
Deleting a du-loop	41
Adjusting a du-music setting	43
Adjusting a setting for a particular du-loop	43
transpose: transposing a du-music	44
scale: scale display	44
tempo: adjusting the tempo	45
click mode: metronome mode	45
click level: adjusting the metronome volume	45
signature: accentuation of the downbeats	45
quantizer	46
du-loop volume: adjusting the volume of a du-loop	47
display score: display the musical score	47
adjusting the sound of a du-loop	47
du-station	48
Windows installation	49

Installation on MAC OS X	53
Updating du-station	56
Creating an account	56
Linking your du-touch with your account	57
Charger + USB cable	58
The case	58

accessories 58

The du-belt*	59
The du-bag*	59
Warranty	67
Precautions	67
Contact	68
Specifications	69



Note from the manufacturer(1411)

Welcome in the dualo community. You are now one of the first dualo players and we thank you for your trust.

Please visit our page dualo.org/support, where you will find the du-touch user manual and a link to our software, the du-station.

Using the du-station, you will be able to update your du-touch and its sound bank.

- Some parameter keys doesn't display anything on the screen, this is normal. These parameters aren't implemented yet, but they will in a coming update.

- *Some sound keys are empty, this is also normal. The sound bank will also be update.*

If you encounter any trouble, or if you have any remarks that could help the du-team to improve the du-touch, contact us at dualo.org/support.

On our youtube page, you will find du-lessons, a series of tutorial that will help you learn how to handle your du-touch.

la du-team

Contact

Dualo - 1, centre commercial La Tour, 93120 La Courneuve, France
contact@dualo.org

Warranty

Dualo du-touch come with a 2 years warranty. In case of trouble, please visit our page dualo.org/support or contact directly Dualo:

sos@dualo.org.



Caution

The du-touch is intended for use under a temperate climate. It contains electronics and a battery, making it sensitive to moisture, frost and sudden changes of temperature. The du-touch should not be exposed to excessive heat such as sunshine, fire, open flame or similar origin.

The du-touch contains a battery that must be recycle in order to protect the environment. If you want to get rid of it, return it to your dealer or a recycling electronics tray. The du-touch should not be unmounted, this would void the warranty. In particular, only the manufacturer can change the battery.

To avoid possible hearing damages, do not listen at high volume level for a long time.

The du-touch is a musical instrument. As such, it must be handled with care as any other instrument. To protect it from dust when not playing, keep it in the supplied carrying cover.

technical specifications:

environmental condition		
	minimum	maximum
temperature	30°F	104°F
humidity	45%	85%
electrical specifications		
	minimum	maximum
supply voltage	5V	5V
current	500mA	1,5A

Remarks:

→ charging the du-touch using the AC adapter; the plug is used as the disconnecting device, so it must be accessible.

→ charging the du-touch using a computer; the USB plug is used as the disconnecting device

→ use only the AC adapter provided with the du-touch:

manufacturer: SUNNY

reference: SYSI 460-1105

specifications: input : 100-240V, 50-60Hz, 1A max; output : 5V, 2.1A max

FCC:

This device complies with 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 undesired operation.

NOTE: THE GRANTEE IS NOT RESPONSIBLE FOR ANY CHANGES OR MODIFICATIONS NOT EXPRESSLY APPROVED BY THE PARTY RESPONSIBLE FOR COMPLIANCE. SUCH MODIFICATIONS COULD VOID THE USER'S AUTHORITY TO OPERATE THE EQUIPMENT.

Important Safety Instructions:

- 1) Read these instructions.
- 2) Keep these instructions.
- 3) Heed all warnings.
- 4) Follow all instructions.
- 5) Do not use this apparatus near water.
- 6) Clean only with dry cloth.
- 7) Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
- 8) Only use attachments/accessories specified by the manufacturer.
- 9) Unplug this apparatus during lightning storms or when unused for long periods of time.
- 10) Refer all servicing to qualified service personnel. Servicing 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 apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.
- 11) Do not unmount this apparatus.
- 12) To avoid possible hearing damages, do not listen at high volume level for a long time.

The **du-touch** is designed by Dualo and Nimos Design.



Contact

Dualo - I, centre commercial La Tour, 93120 La Courneuve, France
contact@dualo.org

Specifications

Complete dualo chromatic keyboards: 5 octaves, 58 notes per keyboard

116 luminous pads, three colors, pressure-sensitive

3 tactile linear potentiometers and three tactile buttons

1 × 3-axis accelerometer/gyroscope

1 sample-reading synthesizer

49 polyphonic notes, 8 multitimbral parts

116 modifiable or replaceable factory sounds, 4 presets per sound, 256 MB

1 multi-effect, 1 envelope modifier

1 × 7-track sequencer, metronome, quantizer

scale display and score display on keyboard

58 pieces of music and 7 tracks built-in

2 stereo jack audio outputs (6.35mm and 3.5mm)

1 MIDI DIN output

1 MIDI USB output, MacOS-, iOS-, Windows-, Linux-, Android-compatible

battery life on standby: 20 days, battery life when playing: 8h

charging time from the electrical outlet: 5h

supplied with a protective cotton case, a quickstart, a USB cable (2m) and a

charger with 4 plug adapters (FR, US, UK, AUS)

I PC/MAC software package, **du-station**, downloadable free of charge from dualo.org/en/support

dimensions: 285x285x80mm, weight: 1.2 kg.

