SubZero

COMMANDKEY
USER MANUAL
SZ-COMMANDKEY49/61/88

WARNING! EN

Do not open cover. No user-serviceable parts inside. Refer servicing to qualified service personnel
Do not place the product in a location near a heat source such as a radiator, or in an area subject to direct sunlight, excessive dust, mechanical vibration or shock
The product must not be exposed to dripping or splashing and no objects filled with liquids, such as vases, shall be placed on the product
No naked flame sources, such as lighted candles, should be placed on the product
Allow adequate air circulation and avoid obstructing vents (if present) to prevent internal heat build-up. The ventilation must not be impeded by covering the appliance with items such as newspapers, table-cloths, curtains etc.
The mains plug is used to disconnect the appliance from the mains supply. Ensure that the mains outlet is easily-accessible and remove the plug from the mains outlet if you notice any abnormality with the appliance.

VAROVÁNÍ! CZ

Nezakrývejte. Uvnitř nejsou žádné součásti opravitelné uživatelem. S požadavkem na servis se odkažte na kvalifikované servisní oddělení.
Neumísťujte produkt v blízkosti zdroje tepla, jako je radiátor, nebo na místo s přímým slunečním světlem, nadměrným prášení, mechanickými vibracemi nebo šokem.
Produkt nesmí přijít do kontaktu s vodou a žádné objekty naplněné tekutinami, jako například vázy, by neměly být umístěny na produkt.
Žádné zdroje otevřeného ohně, jako například svíčky, by neměly být umístěny na produkt.
Umožněte dostatečnou cirkulaci vzduchu a vyhněte se obstrukci ventilátorů (pokud jsou přítomné) pro předejití interního přehřívání. Ventilace nesmí být narušena překrytím zařízení výrobky jako např. noviny, kuchyňské utěrky, záclony apod.
Hlavní kabel umožňuje odpojit zařízení od elektřiny. Ujistěte se, že hlavní napájecí výstup je snadno dostupný a odpojte kabel pokud zaznamenáte jakoukoliv abnormalitu na zařízení.

ADVARSEL! DK

Dækslet må ikke åbnes. Ingen bruger-udskiftelige dele indeni. Overlad service til kvalificeret service personale
Placer ikke produktet i nærheden af varmekilder såsom en radiator eller i direkte sollys, meget støv, mekaniske vibrationer eller stød
Produktet må ikke udsættes for vand eller stænk, og ingen genstande fyldt med væsker, f.eks. vaser, må anbringes på produktet
Må ikke placeres nær åben ild, tændte stearinlys må ikke placeres på produktet
Vær sikker på at der er tilstrækkelig luftcirkulation og undgår at dække ventiler (hvis der er nogen) for at undgå at produktet bliver varmt. Ventillationen må ikke blokeres med overdækning af apparatet med genstande som aviser, dug, gardiner osv.
Stikket bruges til at afbryde apparatet fra strømmen. Sikre at stikkontakten er let tilgængelige, og fjern stikket fra stikkontakten, hvis du bemærker noget unormalt med apparatet.

WAARSCHUWING! NL

Maak de behuizing niet open. Dit toestel bevat geen onderdelen die door de gebruiker kunnen worden vervangen. Laat onderhoud over aan bevoegd onderhoudspersoneel.
Plaats het product niet in de buurt van een hittebron zoals een radiator of in direkt zonlicht of in een stofrijke omgeving, mechanische vibratie of schok.
Plaats het product niet in de buurt van spattende of lekkende voorwerpen gevuld met een vloeistof zoals bijvoorbeeld een vaas.
Er mogen geen open vlammen zoals aangestoken kaarsen op de apparatuur worden geplaatst.
Zorg om overhitting te voorkomen voor voldoende ventilatie en bellemmer ventilatieroosters niet. Bedek het product niet met dingen zoals kranten, tafellakens, gordijnen etc.
De stekker van dit apparaat wordt gebruikt om het apparaat aan en uit te zetten. Zorg ervoor dat het stopcontact gemakkelijk bereikbaar is en haal de stekker uit het stopcontact als u enige onregelmatigheid ondervindt.

VAROITUS! FI

Älä avaa kantta. Ei sisällä käyttäjä-huollettavia osia. Huollot saa suorittaa vain pätevä huoltomies.
Älä säilytä tuotetta minkään kuuman lähellä kuten patteri tai suorassa auringonpaisteessa, pölyisessä, mekaanisessa värinässä tai iskussa
Tuotetta ei saa altistaa tippuvalle tai loiskeelle tai nesteitä sisältäviä tuotteita kuten maljakko eivät saa olla tuotteen lähettyvillä
Avotulia kuten syttytettyy kynttilä ei saa olla tuotteen päällä.
Salli riittävä ilmankierto ja vältä tuuletusaukkojen tukkiminen (jos sellaisia on olemassa) estämään sisäisen lämmön muodostuminen. Tuuletusta ei saa estää peittämällä laite esineillä, kuten sanomalehdillä, pöytäliinoilla, verhoilla jne.
Verkkovirtapistoketta käytetään irrottamaan laite verkkovirrasta. Varmista, että pistorasia on helposti saatavilla ja irrota pistotulppa pistorasiasta, jos havaitset jotain epänormaalia laitteessa.

ATTENTION! FR

Ne pas ouvrir le couvercle. Aucune pièce interne réparable par l'utilisateur. Confier la réparation a du personnel de réparation qualifié
Ne pas laisser l'appareil à proximité d'une source de chaleur telle qu'un radiateur, dans un endroit directement exposé aux rayons du soleil, trop poussiéreux, ou pouvant subir des chocs mécaniques
L'appareil ne doit pas être exposé aux gouttes d'eau et aux éclaboussures, et aucun objet rempli de liquide, tel qu'un vase, ne doit être posé dessus
Ne placer aucune source de flamme nue, telle que bougie allumée, sur l'appareil
Assurer une circulation d'air suffisante et éviter d'obstruer les fentes (le cas échéant) afin d'éviter une surchauffe interne. La ventilation ne doit pas être bloquée en couvrant l'appareil avec des objets tels que des journaux, des nappes, des rideaux, etc.
La prise secteur est utilisée comme dispositif de débranchement. La prise murale doit être facile d'accès, et en cas d'anomalie de l'appareil, débrancher la prise de courant au niveau de la prise murale.

WARNUNG! DE

Öffnen Sie nicht das Gehäuse. Im Inneren befinden sich keine vom Benutzer zu wartenden Teile. Überlassen Sie Wartungsarbeiten qualifiziertem Fachpersonal.
Stellen Sie das Produkt nicht an einen Ort in der Nähe einer Wärmequelle wie etwa eines Heizkörpers oder in einem Bereich mit direktem Sonnenlicht, übermäßigem Staub, mechanischen Vibrationen oder Stößen.
Schützen Sie das Produkt vor tropfenden oder spritzenden Flüssigkeiten, und stellen Sie keine mit Flüssigkeiten gefüllten Gegenstände wie Vasen auf das Produkt.
Offene Feuerquellen wie Kerzen dürfen nicht auf dem Gerät abgestellt werden.
Sorgen Sie für eine ausreichende Luftzirkulation und vermeiden Sie, dass die Lüftungsschlitze (falls vorhanden) abgedeckt werden, um einen internen Wärmestau zu verhindern. Die Belüftung darf nicht durch Abdecken des Gerätes mit Gegenständen wie Zeitungen, Tischdecken, Vorhängen usw. blockiert werden.
Der Netzstecker dient zum Trennen des Gerätes vom Netz. Vergewissern Sie sich, dass die Steckdose leicht zugänglich ist, und ziehen Sie den Stecker aus der Steckdose, wenn Sie eine Anomalie mit dem Gerät bemerken.

AVVERTIMENTO! IT

Non aprire il coperchio. Se fosse necessario, riferirsi ad un esperto.
Non esporre il prodotto a fonti di calore, luce del sole diretta, polvere, vibrazioni meccaniche o altri possibili shock.
Non esporre il prodotto a perdite di liquido o a spruzzi. Non appoggiare nessun oggetto contenente acqua sul prodotto.
Non esporre il prodotto a fuoco, candele o oggetti simili.
Assicurarsi la circolazione dell'aria e non ostruire le ventole, se presenti, per evitare il surriscaldamento. La ventilazione non deve subire impedimenti dovuti a giornali, tovaglie, tende, ecc.
La spina principale viene utilizzata per disconnettere il prodotto dalla principale fonte di energia.
Assicurarsi che la spina sia facilmente accessibile e disconnettere l'unità nel caso si notassero dei difetti di funzionamento.

ADVARSEL! NO

Ikke åpne dekselet. Inneholder ingen deler som kan brukes. Overlat reperasjon til kvalifisert servicepersonell.
Ikke plasser produktet i nærheten av varmekilder som f.eks. en radiator, eller i områder som er utsatt for direkte sollys, mye støv, mekanisk vibrasjon eller støt.
Produktet må ikke utsettes for drypping eller spruting, og gjenstander som er fylt med væsker, som f.eks. vaser, skal ikke plasseres på produktet.
Åpne flammer, som f.eks. tente lys, bør ikke plasseres på produktet.
Tillat tilstrekkelig luftsirkulasjon og unngå å blokkere ventiler (hvis tilstede) for å forhindre intern varmeoppsamling. Pass på at ventilasjon ikke hindres ved å unngå å dekke apparatet med ting som aviser, bordduker, gardiner osv.
Stikkontakten brukes til å koble apparatet fra strømforsyningen. Forsikre deg om at stikkontakten er lett tilgjengelig og ta støpselet ut av stikkontakten hvis du oppdager uregelmessigheter under bruk av apparatet.

OSTRZEŻENIE! PL

Nie otwierać pokrywy. W środku nie ma części nadających się do naprawy przez użytkownika. Prosimy pozostawić serwis dla wyszkolonego personelu.
Nie umieszczać produktu w pobliżu źródła ciepła, np. grzejnika, lub w bezpośrednim świetle słonecznym, kurzu, czy mechanicznym wibracjom.
Produkt nie może być eksponowany na kapanie lub chlapanie, a przedmioty wypełnione płynami, takie jak wazy, nie powinny być na nim umieszczane.
Źródła otwartego ognia, takie jak np. świece, nie powinny być umiejscowiane na produkcie.
Należy zapewnić odpowiednią wentylację i unikać blokowania otworów wentylacyjnych, aby uniknąć wewnętrznego wzrostu temperatury. Wentylacja nie powinna być utrudniana poprzez nakrywanie urządzenia gazetami, obrusami czy zasłonami.
Wtyczka sieciowa służy do odłączenia urządzenia od zasilania sieciowego. Należy upewnić się, że gniazdo sieciowe jest łatwo dostępne, a w razie wystąpienia nieprawidłowości w funkcjonowaniu urządzenia odłączyć je od zasilania sieciowego.

ATENÇÃO! PT

Não abra a tampa. Não tente a reparação do instrumento por si. Dirija-se a pessoal qualificado
Não aproxime a uma fonte de calor excessivo ou exponha o produto à luz solar, poeira, vibração ou choque
Não mantenha o produto num local húmido ou perto líquidos como vasos, etc.
Não aproxime o produto a fontes de fogo vivo, como velas
Mantenha o produto num espaço suficientemente arejado de forma a evitar sobre-aquecimento. Não bloqueie a ventilação do instrumento, cobrindo-o com artigos como cortinas, toalhas de mesa ou jornais
O transformador é utilizado para conectar e desconectar o artigo da principal fonte de energia.
Certifique-se que a ficha é facilmente acessível e que o artigo está devidamente ligado à corrente se detectar alguma anomalia com o funcionamento

VÝSTRAHA! SK

Neotvárajte kryt. Vo vnútri nie sú žiadne súčasti, ktoré sú opraviteľné užívateľom. S požiadavkou na servis sa obráťte na kvalifikované servisné stredisko.
Nevystavujte produkt do blízkosti akéhokoľvek tepelného zdroja ako napr. radiátora, alebo do kontaktu so slnečným žiarením, nadmerným prašným prostredím, mechanickým vibráciám alebo šokom.
Produkt nesmie prísť do kontaktu s vodou a žiadny objekt naplnený vodou, ako napr. váza, nesmie byť umiestnený na produkt.
Žiadne výrobky s otvoreným ohňom, ako napr. sviečky, by nemali byť umiestnené na produkt.
Umožnite dostatočnú cirkuláciu vzduchu a zabráňte obštrukcii ventilačných otvorov (ak sú prítomné) kvôli prevencii vnútorného prehrievania. Ventilácia nesmie byť narušená prekrytím zariadenia výrobkami ako napr. noviny, kuchynské utierky, záclony a pod.
Hlavný kábel umožňuje odpojiť zariadenie od elektriny. Uistite sa, že hlavný napájací výstup je ľahko dostupný a odpojte kábel ak zaznamenáte akúkoľvek abnormalitu na zariadení.

OPOZORILO! SI

Ne odpirajte pokrova. V notranjosti ni nobenih delov, ki jih uporabnik lahko sam popravlja. Popravilo prepustite usposobljenemu osobju
Ne postavljajte izdelka na lokacijo v bližini vira toplote, kot je radiator, ali na območje, ki je izpostavljeno neposredni sončni svetlobi, pretiranem prahu, mehanskim tresljajem ali udarcem
Izdelek ne sme biti izpostavljen kapljanju ali brizganju in nobeni predmeti, napolnjeni z vodo, kot so vaze, se ne smejo postaviti na izdelek
Nobenega od virov odprtega ognja, kot so vžgane sveče, se ne sme postavljati na izdelek
Zagotovite zadostno kroženje zraka in umaknite ovire na odprtinah (če obstajajo), zaradi preprečevanja kopičenja notranje toplote. Ventilacijo se ne sme ovirati s prekrivanjem naprave s predmeti, kot so časopisi, prti, zavese itn.
Omrežni vtič se uporablja za izklop naprave iz električnega omrežja. Poskrbite, da je omrežna vtičnica zlahka dostopna in izvlecite vtikač iz vtičnice, če opazite kakršno koli nepravilnost pri napravi.

¡ADVERTENCIA! ES

No abra la tapa. No intente reparar el aparato usted mismo. Llévelo a reparar por personal calificado.
No coloque el aparato cerca de fuentes de calor excesivo o donde esté expuesto a luz solar directa, golpes, vibraciones o polvo.
Evite lugares expuestos a humedad. No ponga objetos llenos de líquidos en la superficie de este aparato.
No se deben colocar fuentes de llama desnuda, como velas encendidas, en la superficie de este aparato.
Mantenga suficiente espacio alrededor del aparato para permitir una ventilación adecuada. No obstruya o tape las aberturas con objetos como periódicos, manteles, cortinas, etc.
El enchufe se utiliza para desconectar el producto de la corriente. Si nota algún defecto, desconéctelo de la toma de corriente.

VARNING! SE

Öppna ej locket. Inga användarvänliga delar inuti. För reparationer vänd er till kvalificerad servicepersonal
Ställ ej produkten vid en värmekälla t.ex element, i direkt solljus, damm, elektronisk vibration eller shock.
Produkten bör ej bli utsatt för droppande eller stänk och inga objekt fyllda med vätskor som t.ex vaser skall ställas på produkten.
Ingen källa till öppna flammor som t.ex tända ljus bör placeras på produkten.
Tillåt tillräcklig luftcirkulation och blockera ej eventuella ventiler för att undvika intern överhettning. Ventilen bör ej täckas av föremål såsom tidningar, dukar, gardiner etc.
Nätkontakten används för att koppla bort apparaten från eluttaget. Se till att eluttaget är lättåtkomligt och avlägsna kontakten från eluttaget om du upptäcker något abnormalt med produkten.

INTRODUCTION

Thank you for purchasing the SubZero CommandKey. To get the most out of your keyboard, please read this manual carefully.

BOX CONTENTS

- SubZero CommandKey keyboard

- USB cable

- User Manual.

FEATURES

- 8 high quality velocity & pressure sensitive, RBG Backlit, performance trigger pads.

- 2 x Assignable Pedal Interfaces (Pedal A: switch pedal, default as sustain pedal. Pedal B: continuous pedal, default as expression pedal)

- 8 x Assignable Dials.

- Assignable Pitch Bend Touch Strips.

- Assignable Modulation Touch Strips.

- 5 x MMC Buttons (Midi Machine Control).

- 1x Value Dial with push to enter function.

- 6 x dual function buttons.

- 1 x MIDI Output.

- USB 2.0 interface.

- Mains or USB powered.

- Compatible with Windows 10/8/7/Vista/XP and Mac OSX.

- Plug & Play - No drivers required.

OVERVIEW

1. LED display

2. Encoders

3. Transport buttons

4. Keyboard

5. Trigger Pads

6. Function buttons

7. Change to Value Dial (also acts as ENTER button when pressed).

8. Modulation/Pitch Bend Touch Strips

9. Multi-functional Keyboard

10. DC power socket

11. USB 2.0 port

12. Pedal A (default as sustain pedal)

13. Pedal B (default as expression pedal)

14. MIDI OUT
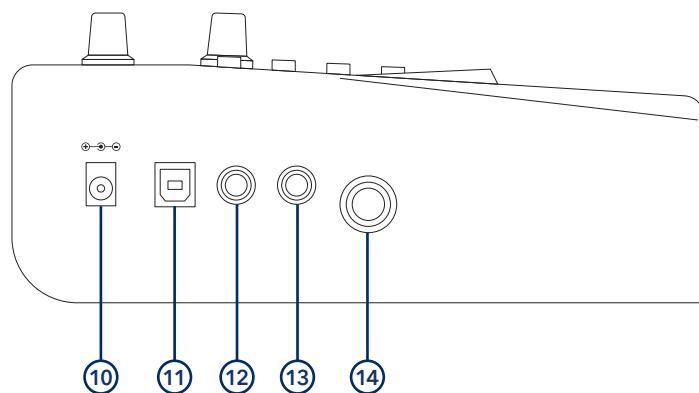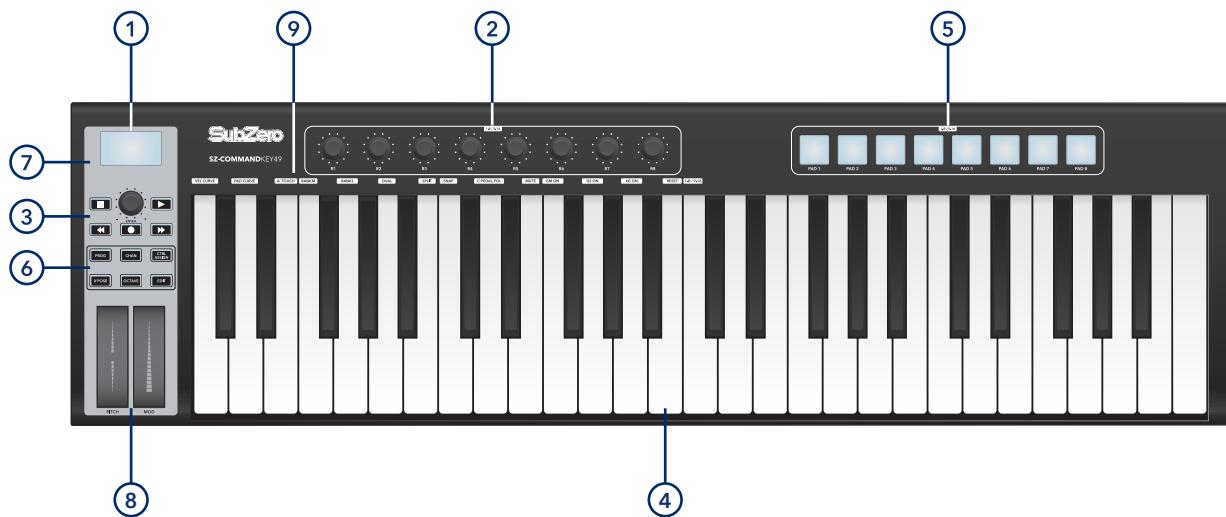
SETUP

SOFTWARE

The SubZero CommandKey will appear in your DAW as a MIDI device with one input port and one output port. Once you have selected the SubZero CommandKey input port as the MIDI input device, your DAW software should be able to receive notes and controller data from the keyboard.

BASIC MIDI CONTROL

The SubZero CommandKey is a controller keyboard as it sends MIDI data to an external MIDI device or virtual instrument (i.e. computer, synthesizer) and therefore does not produce sound on its own.

MIDI messages are sent from the keyboard to the connected device. These messages are then received by your computer software or external MIDI device and are used to generate sound accordingly.

MIDI CONNECTIONS

The MIDI Out port allows you to connect the keyboard to outboard hardware such as computers, sequencers, synthesizers or sound modules using a standard 5-pin MIDI cable.

POWER SUPPLY

The SubZero CommandKey range is USB powered when connected to a computer, so there is no need for a mains power supply.

However, if you are intending to use your SubZero CommandKey without connecting to a computer's USB port, then you will need to use an external power supply.

No power supply is included in the box, so please select one that meets the following requirements:

• 5V DC

• 250mA-300mA

• Center positive polarity

FUNCTIONS

VELOCITY CURVE

Every time you press a key, a MIDI note message is sent with a velocity value between the minimum and maximum limits; this value specifies how hard you have pressed the key. Since different people have different playing styles, your SubZero CommandKey offers 6 different velocity curves as shown below. Your keyboard is set to Curve 1 by default.

You can experiment with the different velocity curves to find out which one best suit your playing style.

C1 C2 C3

C4 C5 C6
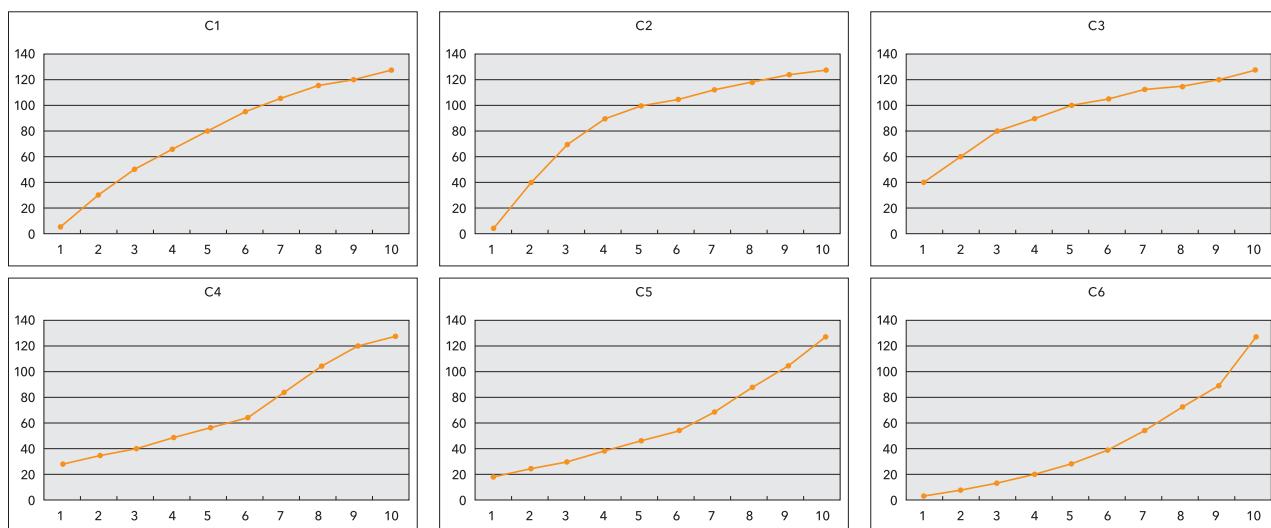
To change the velocity curve please follow these steps:

• Press the EDIT button to enter the keyboard multi-function mode.

• Press VEL CURVE (by using the value dial and then pressing enter).

• The LED screen will display the number of the current velocity curve, which can be adjusted using the value dial.

• Press ENTER to confirm
(push down on value dial)

• Your curve preference is now saved.

OCTAVE

To change the octave of the keyboard, please follow these steps:

- Press the OCTAVE button.

- The LED display will show the current octave.

- Rotate the value dial to adjust the keyboard octave.

- Press ENTER to confirm
(push down on value dial)

- Your octave preference is now saved.

TRANSPOSE

To change the transposition of the keyboard, please follow these steps:

- Press the XPOSE button.

- The LED display will show the current octave.

- Rotate the value dial to adjust the keyboard octave.

- Press ENTER to confirm
(push down on value dial)

- Your transposition preference is now saved.

MIDI CHANNEL

To change the MIDI channel, please follow these steps:

- Press the "CHANNEL" button.

- The LED display will show the current octave.

- Rotate the value dial to adjust the keyboard octave.

- Press ENTER to confirm
(push down on value dial)

- Your MIDI channel preference is now saved.

GENERAL MIDI VOICES

- Press the "PROGRAM" button.

- The LED display will show the current octave.

- Rotate the value dial to adjust the keyboard octave.

- Press ENTER to confirm
(push down on value dial)

- Your MIDI Voice preference is now saved.

GENERAL MIDI VOICE BANKS

- Press the "BANK L/M" button.

- The LED display will show the current octave.

- Rotate the value dial to adjust the keyboard octave.

- Press ENTER to confirm
(push down on value dial)

- Your MIDI Voice Bank preference is now saved.

MIDI CONTROLLER MESSAGES

There are 135 MIDI controller messages that are used to control MIDI-adjustable parameters within external MIDI devices or DAW software's. 0 to 127 are the standard MIDI control parameters, often referred to as General MIDI. 128 to 134 are specialized MIDI control parameters.

Each of the controls on your SubZero CommandKey keyboard can send any of the 128 standard MIDI controller messages, enabling you to use your keyboard to control several parameters including volume, pan, expression, reverb, chorus and portamento.

For example, you may want to set the Modulation touch strip to control the reverb amount. This is done by assigning CONTROL 91 to the Modulation touch strip.

Effect	Control
Modulation	1
Volume	7
Pan	10
Expression	11
Reverb depth	91
Chorus depth	93

0-127	General controller
128	PAD controller
129	Pitch Bend
130	Master Volume
131	Program Change
132	RPN Coarse
133	RPN Fine
134	NRPN Coarse
135	NRPN Fine

There are many virtual instruments (VSTs) available and most respond to MIDI controller messages, allowing you to control a variety of parameters from your SubZero CommandKey keyboard. Please review the manual that came with your software or external gear to see what these controller numbers are.

ASSINGING THE CONTROLS

When programming a physical controller on your SubZero CommandKey, the controller that was last used will be the first one selected for programming. To select a different physical controller for programming please follow these steps:

- Press the "CTRL ASSIGN" button.

- Move the controller you wish to assign a control to. The LED screen will display the controller number.

- Input the controller number with value dial.

- Press enter (by pushing the value dial) to confirm.

ASSIGNING THE KNOBS

There are 8 knobs that can be assigned channel and controller numbers.

To change the assigned control, please follow these steps:

- Press the "CTRL ASSIGN" button.

- Move the dial you wish to assign a control to. The LED screen will display the controller number.

- Input the controller number with value dial.

- Press enter (by pushing the value dial) to confirm.

Example: To assign R1 to volume control 7, please follow these steps:

- Press CTRL ASSIGN button and the LED displays "CH0".

- Rotate the R1 dial.

- Input the controller number with value dial (Turn the Value Dial to 7).

- Press the "ENTER" button to confirm and the LED will display "Done".

ASSIGNING THE TOUCH STRIP

Modulation and pitch bend are the default functions of the 2 touch strips.

However, they can be assigned different controller functions independently.

To change the assigned control, please follow these steps:

• Press the CTRL ASSIGN button.

• Touch the strip you wish to re-assign to select it. The LED screen will show the controller number and value.

• Input the controller number with value dial.

• Press ENTER to confirm the controller number.

ASSIGNNG THE PEDAL

To assign a control to a pedal, please follow these steps:

• Press the CTRL ASSIGN button.

• Press the pedal you wish to re-assign to select it. The LED screen will show the controller number and value.

• Input the controller number with value dial.

• Press ENTER to confirm the controller number.

ASSIGNING THE PADS

To assign a control to a pad, please follow these steps:

• Press the CTRL ASSIGN button.

• Press the pad you wish to re-assign to select it. The LED screen will show the controller number and value.

• Input the controller number with value dial.

• Press ENTER to confirm the controller number.

KEYBOARD MODES

DUAL MODE

Dual Mode allows you to combine two sounds so they can be played simultaneously together on one key.

To enter Dual Mode please follow these steps:

- Press the EDIT button to enter multi-function mode.

- Press the DUAL button to activate the Dual function. The LED screen will display ON.

- To stop the dual function, press the EDIT button followed by the DUAL button. The LED screen will display OFF.

Note: Dual and Split Modes cannot be used at the same time. When Dual is ON, Split is OFF and vice versa.

SPLIT MODE

Split Mode allows you to control two sounds at the same time by setting one side of the keyboard to a specific sound and the other side of the keyboard to a different sound (Middle C is the default split point).

To enter Split Mode please follow these steps:

- Press the EDIT button to enter multi-function mode.

- Press the SPLIT key to activate the Split function. The LED screen will display ON.

- To stop the SPLIT function, press the EDIT button followed by the SPLIT key. The LED screen will display OFF.

CHANGING THE SPLIT POINT

The default split point is the middle C key (MIDI No. 60), however you can change the split point to any key on the keyboard.

To change Split point please follow these steps:

- Press the EDIT button to enter multi-function mode.

- Press the SPLIT key to activate the SPLIT function. The LED screen will display ON.

- Press the SPLIT key again to activate the Split Point function. The LED screen will display the current split point value.

- Press the key you wish to become the new split point.

- Press the EDIT button followed by the SPLIT key once more to close the split point function. The LED screen will display OFF.

MUTE MODE

In Mute Mode no MIDI information is sent from the keyboard.

To enter Mute Mode please follow these steps:

- Press the EDIT button to enter multi-function mode.

- Press the MUTE button to start the mute function. The LED screen will display ON.

- Press the MUTE button again to close the mute function. The LED screen will display ON.

CONTROL ASSIGN MODE

Control Assign Mode allows you to assign any control number to any physical controller (knob, pad, strip, button).

To assign a control number to a controller please follow these steps:

- Press CTRL ASSIGN to activate Assign Mode. The LED screen will display CHO.

- Use the controller you wish to assign a control to select it. The LED screen will display the default control number.

- Use the Value Dial to select the desired control number to be assigned to the controller.

- Press ENTER to confirm the controller number.

GM MODE

To enter GM Mode please follow these steps:

- Press the EDIT button to enter multi-function mode.

- Press the GM ON key

- The LED screen will display DONE.

- To exit GM Mode, repeat these steps.

GS MODE

To enter GS Mode please follow these steps:

- Press the EDIT button to enter multi-function mode.

- Press the GS ON key

- The LED screen will display DONE.

- To exit GS Mode, repeat these steps.

XG MODE

To enter XG Mode please follow these steps:

- Press the EDIT button to enter multi-function mode.

- Press the XG ON key

- The LED screen will display DONE.

- To exit XG Mode, repeat these steps.

RESET

To restore the keyboard to its factory settings please follow these steps:

- Press the EDIT button to enter multi-function mode.

- Press the RESET key to restore the keyboard to its factory settings.

SNAPSHOT

To send the current keyboard settings to an external MIDI device please follow these steps:

- Press the EDIT button to enter multi-function mode.

- Press the SNAP key to send a MIDI message containing the keyboards current user settings.

PEDAL POLARITY

You can change the pedal polarity using this mode. In normal operation when the pedal is pressed a PEDAL ON message is sent, and when the pedal is releasing a PEDAL OFF message is sent. In Pedal Polarity Mode when the pedal is pressed a PEDAL OFF message is sent, and when the pedal is releasing a PEDAL ON message is sent.

To activate Pedal Polarity Mode please follow these steps:

- Press the EDIT button to enter multi-function mode.

- Press the C. PEDAL. POL key to activate the Pedal Polarity Mode. The LED screen will display ON.

- Press the EDIT button and then C.PEDAL.POL button again to close the function. The LED screen will display OFF.

SHIFT BUTTON GROUPS

On the CommandKey controllers, there are eight banks and knobs. By creating an additional bank of controls, SHIFT MODE doubles the amount of controls you have available.

To activate SHIFT MODE please follow these steps:

- Press the EDIT button to enter multi-function mode.

- Press 1-8/9-16 key to switch between banks.

PAD CONTROL

PAD CURVE

The Pad Curve function allows you to tailor the MIDI values being sent to your external MIDI device/ DAW in relation to how hard you are pressing the pad. As you apply more pressure to the pad, the value of the control assigned to the pad will increase, until the maximum value is reached. On release, the pad will return to the minimum value.

There are 6 pad curve settings which are used to set the response curve of all eight pads. It is not possible to set the response curve of each pad independently.

To change the pad curve settings, please follow these steps:

• Press the EDIT button to enter multi-function mode.

• Press the PAD CURVE key to start the curve selection process. The LED screen will display the number of current pad curve.

• Rotate the Value Dial to adjust the pad velocity curve.

• Press ENTER to confirm.
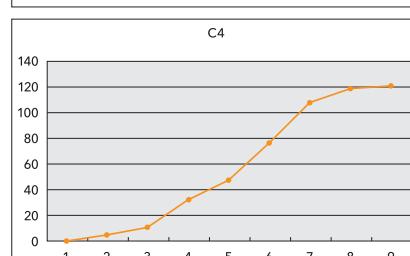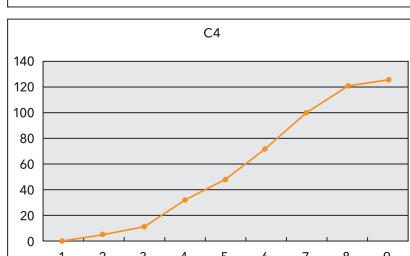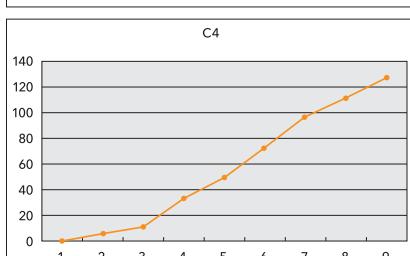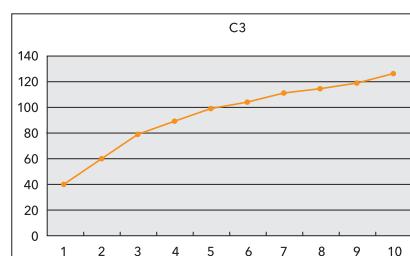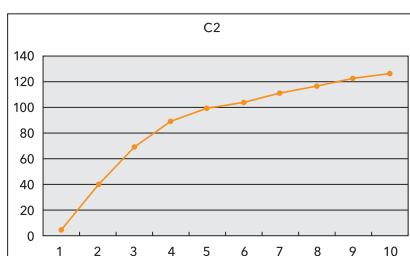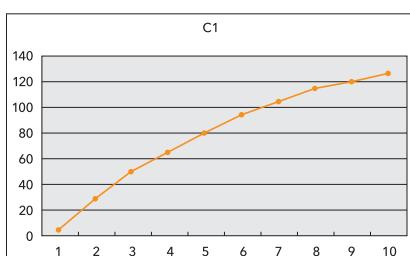
ASSIGNING A PAD NOTE

You are able to assign a note from the keyboard to one of the eight pads.

To assign a MIDI note to a pad please follow these steps:

- Press one pad.

- Press CTRL ASSIGN.

- Rotate Value Dial to set the MIDI note

- Press ENTER to confirm.

ASSIGNING THE PAD COLOUR

To assign a colour to a pad please follow these steps:

- Press the EDIT button

- Press the pad you wish to change the colour of.

- Rotate R1, R2 & R3 to change the RGB color of the pad (during operation the LED screen will display the current RGB color number. Max=127, 0=Off.

- Press the ENTER button to confirm the colour.

COLOUR	R	G	B
WHITE	127	127	127
BLACK	0	0	0
RED	127	0	0
GREEN	0	127	0
BLUE	0	0	127
CYAN	0	127	127
MAGENTA	127	0	127
YELLOW	127	127	0
ORANGE	127	82	0

MMC (MIDI MACHINE CONTROL)

The SubZero CommandKey includes five buttons used for MMC:

[<<] - Skip Back

[>>] - Skip Forwards

[O] - Record

[stop] - Stop

[play] - Play

Note: If using MMC control with DAW software please refer to the DAW software guide for details on how to assign the buttons.

USING THE CONTROLLER WITH A COMPUTER

To use the SubZero CommandKey with a computer you must first install suitable DAW/sequencer software.

In order to use the SubZero CommandKey with your computer, you will need to configure the sequencer software so that the SubZero CommandKey is recognized as the sequencer's MIDI input device. You will need to choose a MIDI output device that can make sound when MIDI data is sent to it. This may be a soundcard on your computer, a VST instrument or a sound module connected to a MIDI port which is in turn connected to your computer.

The virtual synthesizer or external sound module will turn the MIDI data into audible sounds. You can then record the incoming MIDI data and edit your performance using your sequencer.

TROUBLESHOOTING

The SubZero CommandKey has been designed and tested under a wide range of systems and operating conditions. However, there are virtually limitless numbers of operating scenarios, any of which could affect your system's performance.

- If you are connecting to a computer, we recommend that you avoid connecting too many devices to your computer at the same time. The more devices you have connected to the computer, the greater the load on the computer's CPU. Although it is possible in theory to connect multiple USB devices at the same time, doing so may degrade your system's performance.

- If your SubZero CommandKey has suddenly stopped working after having performed well since purchase on a computer switch off the unit and leave it off for 10 seconds. Then restart your computer, power up your SubZero CommandKey and try again.

- If you have connected the SubZero CommandKey to your computer and notice a delay between pressing the key and hearing a sound this may be due to a latency issue. Latency is the term given to the delay between the key being pressed and the sound being produced. Latency issues are caused by the computer and is not caused by the SubZero CommandKey. Latency may be due to the CPU load of the soft synth you are using. When the MIDI data sent by the keyboard is read by the soft synth; the soft synth then completes a large number of complex calculations in order to produce the sound you hear, and all of this processing activity takes time. If you already have adjusted the appropriate parameters relating to latency on your sound card, try re-installing the latest drivers for the sound card, or try reducing the buffer sizes of the sound card. If you are using DAW software, check its buffer size settings.

- PC only: If your soundcard supports ASIO or WDM, please use these drivers. The older MME driver is less efficient in design and will have a much higher latency.

USEFUL INFOMRATION

GENERAL MIDI INSTRUMENTS

Piano	Bass	Reed	Synth Effects
0 Acoustic Grand Piano	32 Acoustic Bass	64 Soprano Sax	96 SFX Rain
1 Bright Acoustic Piano	33 Fingered Bass	65 Alto Sax	97 SFX Soundtrack
2 Electric grand Piano	34 Electric Picked Bass	66 Tenor Sax	98 SFX Crystal
3 Honky Tonk Piano	35 Fretless Bass	67 Baritone Sax	99 SFX Atmosphere
4 Electric Piano 1	36 Slap Bass 1	68 Oboe	100 SFX Brightness
5 Electric Piano 2	37 Slap Bass 2	69 English Horn	101 SFX Goblins
6 Harpsichord	38 Syn Bass 1	70 Bassoon	102 SFX Echoes
7 Clavinet	39 Syn Bass 2	71 Clarinet	103 SFX Sci-Fi
Chromatic Percussion	**Strings/Orchestra**	**Pipe**	**Ethnic**
8 Celesta	40 Violin	72 Piccolo	104 Sitar
9 Glockenspiel	41 Viola	73 Flute	105 Banjo
10 Music Box	42 Cello	74 Recorder	106 Shamisen
11 Vibraphone	43 Contrabass	75 Pan Flute	107 Koto
12 Marimba	44 Tremolo Strings	76 Bottle Blow	108 Kalimba
13 Xylophone	45 Pizzicato Strings	77 Shakuhachi	109 Bag Pipe
14 Tubular bells	46 Orchestral Harp	78 Whistle	110 Fiddle
15 Dulcimer	47 Timpani	79 Ocarina	111 Shanai
Organ	**Ensemble**	**Synth Lead**	**Percussive**
16 Drawbar Organ	48 String Ensemble 1	80 Syn Square Wave	112 Tinkle Bell
17 Percussive Organ	49 String Ensemble 2	81 Syn Sawtooth Wave	113 Agogo
18 Rock Organ	50 Syn Strings 1	82 Syn Calliope	114 Steel Drums
19 Church Organ	51 Syn Strings 2	83 Syn Chiff	115 Woodblock
20 Reed Organ	52 Choir Aahs	84 Syn Charang	116 Taiko Drum
21 Accordion	53 Voice Oohs	85 Syn Voice	117 Melodic Tom
22 Harmonica	54 Syn Choir	86 Syn Sawtooth Wave	118 Syn Drum
23 Tango Accordion	55 Orchestral Hit	87 Syn Brass & Lead	119 Reverse Cymbal
Guitar	**Brass**	**Synth Pad**	**Sound Effects**
24 Nylon Acoustic	56 Trumpet	88 New Age Syn Pad	120 Guitar Fret Noise
25 Steel Acoustic	57 Trombone	89 Warm Syn Pad	121 Breath Noise
26 Jazz Electric	58 Tuba	90 Polysynth Syn Pad	122 Seashore
27 Clean Electric	59 Muted Trumpet	91 Choir Syn Pad	123 Bird Tweet
28 Muted Electric	60 French Horn	92 Bowed Syn Pad	124 Telephone Ring
29 Overdrive	61 Brass Section	93 Metal Syn Pad	125 Helicopter
30 Distorted	61 Syn Brass 1	94 Halo Syn Pad	126 Applause
31 Harmonics	62 Syn Brass 2	95 Sweep Syn Pad	127 Gun Shot

GENERAL MIDI CONTROLLER NUMBERS

MIDI Note	Control
0-127	General controller
128	PAD controller
129	Pitch Bend
130	Master Volume
131	Program Change
132	RPN Coarse
133	RPN Fine
134	NRPN Coarse
135	NRPN Fine

ASSIGNABLE CONTROLLER NUMBERS

Controller	Controller Number	Controller Name
R1	7	Standard MIDI Controller
R2	92	Standard MIDI Controller
R3	91	Standard MIDI Controller
R4	74	Standard MIDI Controller
R5	131	Program Change
R6	81	Standard MIDI Controller
R7	73	Standard MIDI Controller
R8	93	Standard MIDI Controller
PITCH BEND WHEEL	129	Pitch Bend
MODULATION WHEEL	1	MODULATION
S1	130	Master Volume
S2	42	Standard MIDI Controller
S3	65	Standard MIDI Controller
S4	94	Standard MIDI Controller
S5	7	Standard MIDI Controller
S6	67	Standard MIDI Controller
S7	95	Standard MIDI Controller
S8	71	Standard MIDI Controller
S9	70	Standard MIDI Controller
Pad	128	Pad controller
Pedal A	67	Standard MIDI Controller
Pedal B	11	Standard MIDI Controller

HEXIDECIMAL CONVERSION CHART

Hexadecimal Value	Decimal Value	Hexadecimal Value	Decimal Value	Hexadecimal Value	Decimal Value
0	0	2B	43	56	86
1	1	2C	44	57	87
2	2	2D	45	58	88
3	3	2E	46	59	89
4	4	2F	47	5A	90
5	5	30	48	5B	91
6	6	31	49	5C	92
7	7	32	50	5D	93
8	8	33	51	5E	94
9	9	34	52	5F	95
0A	10	35	53	60	96
0B	11	36	54	61	97
0C	12	37	55	62	98
0D	13	38	56	63	99
0E	14	39	57	64	100
0F	15	3A	58	65	101
10	16	3B	59	66	102
11	17	3C	60	67	103
12	18	3D	61	68	104
13	19	3E	62	69	105
14	20	3F	63	6A	106
15	21	40	64	6B	107
16	22	41	65	6C	108
17	23	42	66	6D	109
18	24	43	67	6E	110
19	25	44	68	6F	111
1A	26	46	69	70	112
1B	27	46	70	71	113
1C	28	47	71	72	114
1D	29	48	72	73	115
1E	30	49	73	74	116
1F	31	4A	74	75	117
20	32	4B	75	76	118
21	33	4C	76	77	119
22	34	4D	77	78	120
23	35	4E	78	79	121
24	36	EF	79	7A	122
25	37	50	80	7B	123
26	38	51	81	7C	124
27	39	52	82	7D	125
28	40	53	83	7E	126
29	41	54	84	7F	127
2A	42	55	85		

If you have any more questions about this product, please do not hesitate to contact the
Gear4music Customer Service Team on: **+44 (0) 330 365 4444** or **info@gear4music.com**