Miditech i2-Control 61 Pro

Owner`s manual

Class Compliant USB MIDI Controller Keyboard

Features:

61 dynamic keys, 4 velocity-sensitive trigger -pads, 8 sliders, 8 knobs

16 user emplates for own setups

Pitch-Bend/Modulation wheels

6 buttons for DAW transport- control

USB MIDI OUT, MIDI OUT

USB powered, optional with DC adaptor

Class compliant für Windows XP SP3/Vista/7/8 und Mac OSX

Incl. the Miditech free software bundle (download versions)

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Preface

Congratulations on your purchase of MIDITECH i2-Control 61 Pro dynamic MIDI Controller. Designed for both the studio and the concert. The i2-Control 61 Pro offers 61 velocity-sensitive keys. The i2-Control 61 Pro provides extensive controllers for virtual instruments, DAWs, hardware synthesizers, samplers and any other MIDI compatible device. The eight fully assignable knobs and sliders allow for instant control of your software's features and can pick up just where you left off.

The versatile and easy-to-use i2-Control 61 Pro is a great controller in the studio and concert.

What's in the Box?

The following items should be in your package.
- i2-Control 61 Pro semi-weighted MIDI Controller.
- One standard USB Cable.

i2-Control 61 Pro Keyboard Overview

Here are the features including in the i2-Control 61 Pro keyboard:
- 61-note dynamic keyboard.
- Eight fully assignable 40mm sliders.
- Eight fully programmable knobs.
- Pitch Bend Wheel.
- Modulation Wheel.
- Four trigger pads.
- Six transport controls.
- Sustain pedal interface (sustain pedal does not include).
- Several velocity curves for choosing.
- i2-Control 61 Pro connect to PC through USB1.1.

- The supplied USB MIDI OUT and KEYBOARD MIDI OUT can connect to other MIDI device by oneself.
- Power Supply: External 5-9V DC power, or USB power

Quick Start

1.1 i2-Control 61 Pro Overview
1.1.1 Controller elements /front view
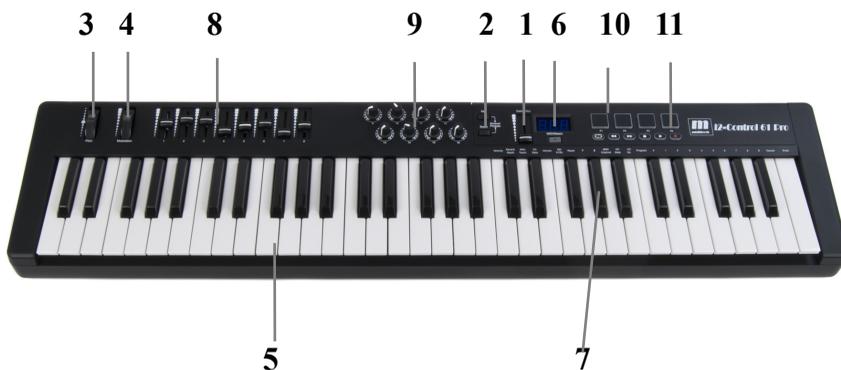
1.1.2 Back view / connections

1.1.3 Controllers description

These controllers are referred by name.

1.	Data Entry slider	10.	Trigger Pads
2.	Octave Buttons (Up & Down)	11.	Transport Controls
3.	Pitch Bend Wheel	12.	Sustain Pedal
4.	Modulation Wheel	13.	Keyboard MIDI OUT
5.	Standard 61 key keyboard	14.	USB MIDI OUT
6.	LCD display screen	15.	USB 1.1 Jack
7.	controller edit keys	16.	Power Selector Switch
8.	8 Assignable Sliders	17.	External Power Interface
9.	8 Programmable Knobs		

1.2 Minimum System Requirement

If you are using your i2-Control 61 Pro with a computer, the following minimum system requirements need:

Windows	Mac OS
Pentium 3 800MHz or higher	Macintosh G3*800/G4*733 MHz or higher
(CPU requirement may be higher laptops)	(CPU requirement may be higher for laptops)
256 MB RAM	OS X 10.3.9 with 256 MB RAM
Direct X 9.0b or higher	OS X 10.4.2 or greater with 512 MB RAM
Windows XP(SP2) or higher	*G3/G4 accelerator cards are Not supported.
(Windows 98,Me,NT or 2000 not supported)	

(Attention：Window98/ME/2000 are not supported)

Connect the i2-Control 61 Pro connect directly to your computer USB ports.

1.3 Installation

i2-Control 61 Pro does not need other driver to work with a computer, only needs the USB Audio Driver built in the system.

The first time you connect i2-Control 61 Pro to your computer, it will automatically install the general USB-Audio Driver. After installation, the system will tell you the "new hardware" is ready to use.

1.3.1 Play with your Application Software

Generally, in PC or Mac, most MIDI software will have a MIDI port configuration or settings, sometimes it called "MIDI Devices" or "MIDI Setup". You can choose and enable your MIDI input and output devices in it.

If the i2-Control 61 Pro driver is properly installed, and there is not other MIDI device connected, the MIDI In port of i2-Control 61 Pro In-1 (or "Port 1"on the Mac) will be selected as the first midi input, while the MIDI Out port of i2-Control 61 Pro Out-1 (or Port 1) will be selected as the first midi output.

If the MIDI software runs, and the MIDI-In and Out port in i2-Control 61 Pro are selected, the MIDI message will be received when playing the i2-Control 61 Pro keyboard. Also, the soft can send the midi message out to other device through the i2-Control 61 Pro "USB"MIDI OUT. You can connect this USB MIDI OUT port with the other sound module or virtual instrument.

1.4 MIDI Connection

MIDI connector is a standard 5-pin DIN connector, which is used to connect the i2-Control 61 Pro to a sound module or hardware synthesizer with a standard MIDI cable.

If you need to transmit MIDI data from your keyboard to other professional MIDI instruments, please purchase a standard MIDI cable and use it to connect the Keyboard or USB MIDI OUT jack in i2-Control 61 Pro rear panel labeled "Keyboard "or "USB "to the MIDI IN jack of the other instrument.

1.5 Power supply

Power switch has two options can be "USB" or "external power supply." Connect an USB cable from your computer to the i2-Control 61 Pro . The unit will be powered by the computer USB.

Alternatively, if you do not want to use a computer for power, you can also use a 500mA power adapter(Center-positive, 2.5mm barrel diameter）.

Chapter 2：The basic MIDI Controllers

2.1.1 Modulation Wheel

It is very common to use the modulation wheel to change the intensity of effects: mainly Vibrato (pitch change), Tremolo

(Change the volume), and Modulation (change the tone). The Modulation wheel produces a vibrato effect shortly after the sound is generated. It is most effective for voice such as Saxophone Strings and Oboe.

Pitch Bend Wheel

The Pitch Bend wheel is used for raising or lowering the pitch of a voice during performance. The range of pitch values depends on the sound generator (sound card or module) being used. Please refer to the manuals of your devices for information on how to change the Pitch Bend range. To bend the pitch up, please move the wheel away from you.   To bend the pitch down, please move the wheel towards you.

2.1.2 Octave knobs

By pressing the Octave key, you will shift the active keyboard range one octave higher, or lower. For example, if you want to change the octave 2 octaves down, press Oktave Key twice.

Data Entry slider

The Data Entry slider allows you to adjust the parameters of a MIDI controller. Use this knob to select different MIDI commands on certain keys from your keyboard.The *i²* **Control-61 Pro** provides several groups of MIDI commands as follows:

2.1.3 MIDI SELECT and function keys

Some keys on the keypad gives you direct access to this MIDI functions: **Velocity, Reverb Depth, Aftertouch, Pan, Volume, Set Ctrl, Reset, Transpose single note up and down, MIDI channel, CC data, CC number, Program number**. To use this functions, simply press the MIDI Select button and then the function you want to use. For example: Press the MIDI/SELECT button, then the VOLUME KEY, and you can adjust directly the volume of the keyboard with the DATA ENTRY slider. Another example: With the # and b keys you can increase or decrease the notes by halftones. If you want to transpose by 3 semitones: Press the MIDI/SELECT, then the # key, and use the DATA ENTRY knob (in the display you see 3 for three semitones) then press the MIDI/SELECT knob again to finish the change.

2.1.4 Reset key

Pressing the MIDI/SELECT button and the RESET key will send out a message to return all external MIDI instruments to their default setting as well.

2.1.5

Control Change data entry by Numeric keypad

The *i²* **Control-61 Pro** allows you to use the numeric keys to specify your Control Change DATA parameter instead of the DATA ENTRY knob. By pressing MIDI/SELECT button and CC DATA key & then the required number and finally the Enter key to finish. For example, if you want to make Control Change 7 as value 123.

1) Press MIDI/SELECT knob;
2) press CC No.(will be shown in display)
3) choose 7 on numeric keypad;
4) press enter key to specify Control Change as 7;
5) the display shows "---"
6) press CC DATA.(will be shown in display)
7) Press number key 1, 2, and 3, then press enter key to specify value 123 then press MIDI/SELECT knob to finish this action.

9) For Velocitiy, Referb and Chorus Depht, Pan Pos, Volumen you only need to enter CC Data Value.

Please note for e.f.g.: after you press enter key the LED display will show --- to indicate that you pressed enter key and will not disappear

until you press the MIDI/SELECT knob to finish your choice. After you press cancel key the LED display will show blank to indicate that you pressed cancel key and will not disappear until you press the MIDI /SELECT knob to finish your choice.

Program key

Pressing MIDI/SELECT and then the Program key, then the numeric keys and then the ENTER key, you can select any patch number between 1 to 127. For example, if you want to change voice to 67 (Tenor Sax): Press the MIDI /SELECT knob, the program key and 67 on numeric keys, ENTER key and then MIDI/SELECT again to finish this action.

2.1.6 Assignment of the 20 Real-time Controllers

In order to assign a Controller Knob, Fader or Pad to a MIDI Parameter (MIDI Controller) please follow these steps:

1. Press the MIDI/SELECT knob and then SET CTRL (Controller) key (F3)
2. The last active Hardware Controller (Slider or knob) will be showed
3. Choice the knob you will program by turning it – the display shows its number

4. After a short time the active CC number will be shown. Overwrite it with the

   new CC controller number by the ten key groups (1-127) and press enter

5. Finally, press MIDI/SELECT knob key again to finish assign knob.

Now you have assigned to one Control knob the MIDI Parameter -Repeat the

same method for the other 16 real-time Controller Knobs and Faders.

2.1.7 Selecting and setting a presetbank

There are 15 presetbanks with predefined controller settings, each with 20

controllers (Midichannel, Midicontroller Nr.)

All settings are stored in an EE-Prom to be sure at power off or battery change

state.

At the end of this usermanual you can find a list with the factory settings of the

controllers.

For selecting a presetbank press MIDI/SELECT, then the OCTAVE UP or

DOWN to increase or decrease the banknumber you want to choose, then press

ENTER. Now you can use the new bank, with 20 new controller settings.

For setting a presetbank, please see part Assignment of the 20 Real-time

Controllers!

TROUBLE SHOOTING

If anything doesn't work . . .

Please check following points:

MIDI connection fault . . .

Do you have installed your midi drivers from your soundcard or USB interface?

Look at START --> Settings --> Systemcontrol --> Multimedia --> Tab Midi for installed midi drivers. If not, you have to do this first. After that your Keyboard should work with your computer. Attention: In some programs you have to set the Input-Port, before you can receive MIDI-data. Please check!!

Audio is delayed . . .

This problem is often attached to the midi device, but in reality it is a problem of the sound card in your computer. The easiest way to solve this latency problem is to install an audio-interface with a special ASIO driver, and a compatible music software.

MIDI Device is not recognized . . .

There are some misunderstandings about midi, because the computer does not

recognize a midi device, except it is an USB-device. The midi standard doesn't support recognizing of devices. The *i²* **Control-61 Pro** is recognized by USB but not by a MIDI-interface, this is normal.

Pedal doesn't work . . .

May be you have the wrong pedal type. There are two types of pedals in the market: One is a pedal with an open contact, and if pressed it closed, and one is with a closed contact and opened if pressed. The keyboard needs a pedal with an open contact!

USB doesn't work . . .

Is the powerswitch in the power-on position?

Is the keyboard is recognized by USB? If you connect the keyboard to the computer by USB, it should be recognized. You can hear a short sound and the computer shows the name of the keyboard. In Windows XP, it is called "USB audio device". If this not happens, there should maybe a technical problem. The Miditech *i²* **Control-61 Pro** is fully class compliant to any Windows versions up to Win 7 64 bit and Mac OSX 10.6 . This means, it will be automatically recognised and setup by the OS without installing an additional driver.

You can see in the device manager if the keyboard is recognised!

Look at „Start ✳ Settings ✳ System control ✳ System ✳ Tab Hardware ✳ Device manager at Audio/Video/Game controller for the keyboard settings.

Do you have set MIDI-In port at your music program?

If not, no communication with your music program is possible. Have a look in the manual of your software how to do this.

Please install the *i² Control-61 Pro* at a primary USB port of your PC or Mac, NOT at a USB Hub. This can cause problems with the i2-series keyboards.

Power supply does not work . . .

If the unit isn't powered by power-supply, try to connect by USB-Connection. If it works normal, the power-supply may be damaged.

If nothing helps . . .

You can write an e-mail to our hotline Info@Miditech.de and we try to help you. Please have a look on our FAQ page first; maybe your problem is listed. We will answer you normally in some days. If not please try again, because we have good spamfilter and sometimes they catch wrong e-mails.

Specifications

Model: *i²* **Control-61 Pro**

Keyboard	61 dynamic keys.
Simultaneous Note output (Reverse priority)	10 notes
Control switches	MIDI Channel Reset Transpose -,+ Octave Program Change CC-No.(Generic CC Assignment) CC-Data Data Entry Velocity Assignment, Data Entry Reverb Send Level Assignment, Data Entry Chorus Send Level Assignment, Pan Pot Assignment(CC-10), Volume Assignment(CC-07) CC-Data Controller Knob Assignment (set controller) Numerical Keys x10 Enter Cancel

	17 real time controller knobs and faders, 4 Trigger-Pads Pitch Bender Wheel, Modulation Wheel, Data Entry Knob DAW Transport Control Buttons
External Control Terminals	USB 1x MIDI Out (DIN), 1 x MIDI IN (DIN) Sustain, Power Sw. DC in.
Display	7 segment LED x 3 digit
Dimensions	58,5 x 23 x 7 cm
Weight	3 kg
Power source	USB-Bus DC 9V with inside plus
Data memory	EE-Prom Memory

MIDI Implementation Chart

Model: *i²* Control-61 Pro

Function	Transmitted	Recognised	Remarks
Basic Channel Default Changed	1 1-16	x x	
Mode Default Messages Altered	Mode 3 x *************	x x x	
Note Number : True Voice	12-108 *************	x x	**With Octave Change**
Velocity Note ON Note OFF	o x	x x	
After Key's **Touch** Ch's	x x	x x	
Pitch Bender	o	x	
Control Change	O	x	
Prog Change :True #	1-128 0-127	x x	

CC-00, CC-32			
System Exclusive	x	x	
System :Song Pos :Song Sel **Common** :Tune	x x x	x x x	
System :Clock **Real Time** :Commands	x x	x x	
Aux Message :Local ON/OFF :All Notes OFF :Active Sense :Reset	x o o o	x x x x	**Send with Reset.** **Send with Reset.**
Notes:			

Mode 3 : OMNI OFF, POLY

o=Yes, x=No

Trigger pads Controller Information

not	standard	note	standard
27-D#1	High Q	58-A#3	Vibraslap
28-E1	Slap	59-B3	Ride Cymbal 2
29-F1	Scratch Push	60-C4	Hi Bongo
30-F#1	Scratch Pull	61-C#4	Low Bongo
31-G1	Sticks	62-D4	Mute Hi Conga
32-G#1	Square Click	63-D#4	Open Hi Conga
33-A1	Metronome Click	64-E4	Low Conga
34-A#1	Metronome Bell	65-F4	High Timbale
35-B1	STD1 Kick2	66-F#4	Low Timbale
36-C2	STD1 Kick1	67-G4	High Agogo
37-C#2	Side Stick	68-G#4	Low Agogo
38-D2	STD1 Snare1	69-A4	Cabasa
39-D#2	Hand Clap	70-A#4	Maracas
40-E2	Snare Drum 2	71-B4	Short Whistle[EXC2]
41-F2	Low Floor Tom	72-C5	Long Whistle[EXC2]
42-F#2	Closed Hi-Hat [EXC1]	73-C#5	Short Guiro[EXC3]
43-G2	High Floor Tom	74-D5	Long Guiro[EXC3]
44-G#2	Pedal Hi-Hat[EXC1]	75-D#5	Claves
45-A2	Low Tom	76-E5	Hi Wood Block
46-A#2	Open Hi-Hat[EXC1]	77-F5	Low Wood Block
47-B2	Low Mid Tom	78-F#5	Mute Cuica[EXC4]
48-C3	Hi Mid Tom	79-G5	Open Cuica[EXC4]
49-C#3	Crash Cymbal 1	80-G#5	Mute Triangle[EXC5]
50-D3	High Tom	81-A5	Open Triangle[EXC5]
51-D#3	Ride Cymbal 1	82-A#5	Shaker
52-E3	Chinese Cymbal	83-B5	Jingle Bell
53-F3	Ride Bell	84-C6	Belltree
54-F#3	Tambourine	85-C#6	Castanets
55-G3	Splash Cymbal	86-D6	Mute Surdo[EXC6]

56-G#3	Cowbell	87-D#6	Open Surdo[EXC6]
57-A3	Crash Cymbal 2		

Transport Controls Information

MMC	Command	MMC	Command
01	STOP	07	RECORD EXIT
02	PLAY	08	RECORD PAUSE
03	DEFERRED PLAY	09	PAUSE
04	FORWARD	10	EJECT
05	REWIND	11	CHASE
06	RECORD STROBE	12	COMMAND ERROR REST

Specification

General	
Product Name	i2-Control 61 Pro
Keyboard	61 velocity-sensitive keys
Maximum polyphony	10 notes
Display	LCD screen display
Button	Octave up & down, select, trigger pads, transport
Wheels	pitch and mod wheels
Knobs	8 Programmable Knobs
slider	8 Assignable Sliders
Jacks	Power Jack, USB, USB/Keyboard MIDI OUT, Sustain Switch
Power supply	9V DC<plug 5.5(-)*2.5mm(+)> & USB
Accessories	User's Manual, USB cable
Inputs/outputs	
MIDI OUT	5-pin DIN*2
USB	USB-B
DC 9V IN	9V DC 500mA
Sustain Pedal	1/4 " pedal jack