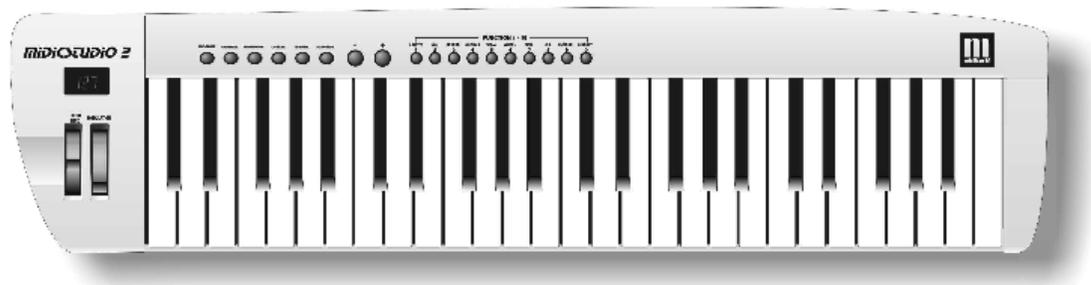


Usermanual

MIDI STUDIO 2



PREFACE

Congratulations on purchasing the Midistudio-2 master MIDI controller keyboard. It is one of the finest products of its kind, made after extensive research into what customers require from a MIDI Controller.

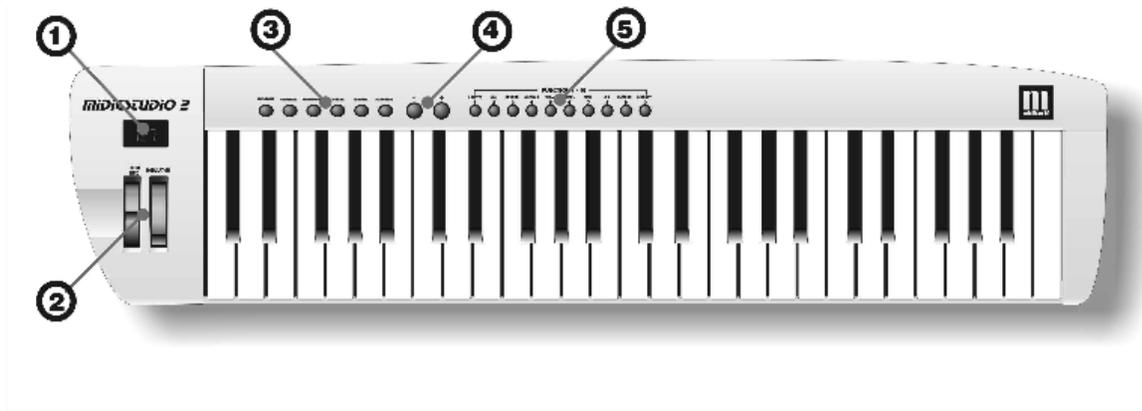
When using your Midistudio-2 in conjunction with a computer and appropriate music software, you will be able to discover the wonderful world of Computer Music, with a set of complete musical instruments from your sound card or workstation.

This manual is written to help you become familiar with the features of the Midistudio-2. Please read the manual carefully to discover all the features of your Midistudio-2. After reading the manual, you will have a clear understanding of how to transmit different MIDI messages to other instruments and equipment. For ease of use of MIDI implementation, we strongly recommend you to have the manual at hand when you are using the keyboard, especially if you are new to the world of MIDI.

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User panel:



1 = Display

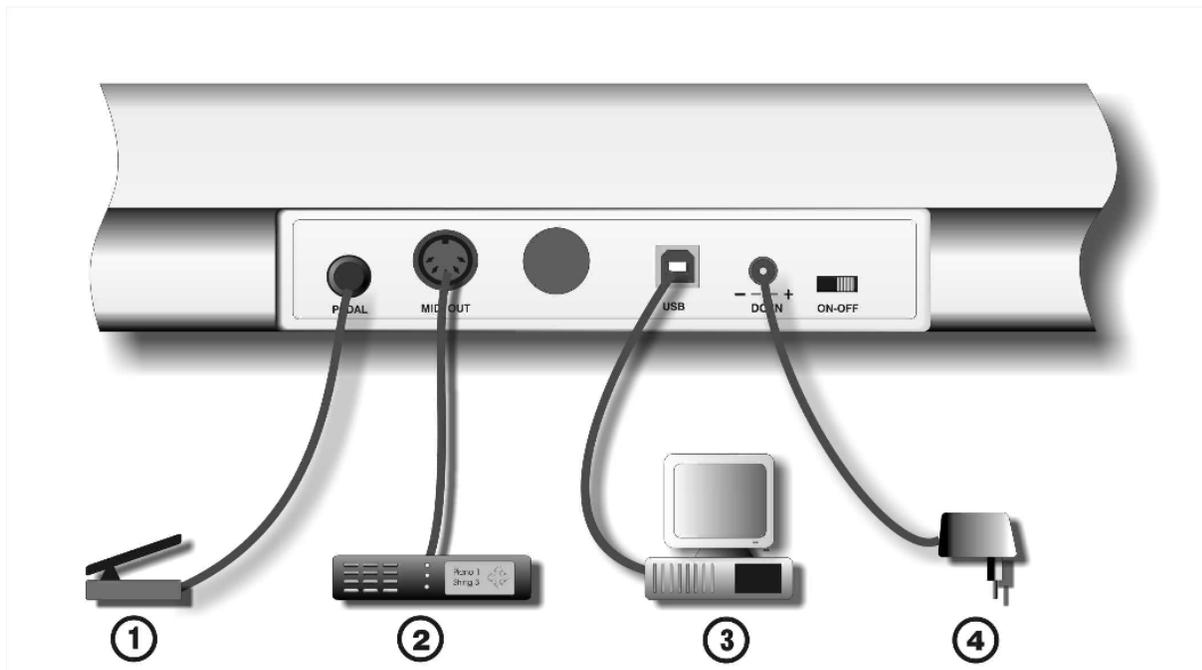
2 = Pitch and Modulation Wheel

3 = Basic Functions

4 = Plus/Minus Keys

5 = Advanced Functions and Ten Keys

Back panel connections:



1 = Footpedal 2 = Soundmodul

3 = Computer 4 = Power supply

SOMETHING YOU SHOULD KNOW BEFORE USING THE MIDI FUNCTIONS

MIDI is the acronym for Musical Instrument Digital Interface, which makes all digital musical instruments equipped with this standardised interface capable of exchanging their MIDI data or “talk to each other”

To explain how MIDI works on your instrument in more detail, the following illustrations will outline the MIDI functions of the **MIDI STUDIO-2**, which allow you to connect the keyboard to other MIDI instruments. The versatile MIDI capability of the **MIDI STUDIO-2** will offer you tremendous power in a MIDI environment.

SOMETHING YOU SHOULD KNOW BEFORE USING THE USB- CONNECTION

USB is the acronym for Universal Serial Bus, and is the standard for exchanging data between different units. All Units communicate over one cable with the computer and so there is no need for many cables to connect, and this will make your work much easier.

The **MIDI STUDIO 2** will give you an USB-Interface for transfer midi data to your computer. (Midi over USB)

USB DRIVER SOFTWARE INSTALLATION

When you use this master keyboard with Windows 98 or Windows 2000, you must install USB driver software into your computer with attached CD-ROM.

Put the CD-ROM in CD-ROM driver tray, then you can find there are two directories in the CD-ROM: Win98 and Win2000. Open one according to the Windows version you are using. Double click on the “SETUP” icon, installation will start. You simply follow instruction to complete all steps.

SWITCH ON

There are two ways to power the unit:

1. Use USB cable to connect USB socket of computer.
2. Use external adapter: Plug output jack of proper AC adapter into the DC socket in the rear panel.
3. Then slide power switch to ON. Display will show “001” as program number and the unit transmit initial program number to the equipment connected to **MIDI STUDIO-2** immediately. When you play on the keyboard, notes and its velocity message will be transmitted. Note number corresponding to the most left key is 36.

Note:

The default display is program number. After any operation in the unit, the display will return to program number. Data transmitted is the number on the display minus 1. For example, program number “001” on the display is transmitted as “000”, etc

After legal operation, the data change will be transmitted immediately.

BASIC OPERATIONS

PROGRAM SETTING

Press PROGRAM button, the current program number will appear on the display. Use +, - button to increase or decrease the program number you desire. You can also press numerical buttons 0 - 9 to enter the number directly ranging of 1 to 128. You must enter all 3 figures, for example, 001, 012, 126 etc. If you don't complete data entry by 3 seconds, the display will recover to previous figure.

Note:

Transmitted program change is the number on the display minus 1. For example, program number "001" on the display is transmitted as "000", etc.

TRANSPOSE

Press TRANS button, the current note shift in semitone will appear on the display. Use +, - button to increase or decrease the note shift you desire ranging of -12 to +12.

About 3 seconds after you complete the operation, the display will return to indicate program number.

The note will be transmitted as the physical key you are playing with shift of transpose value.

OCTAVE

Press OCTAVE button, the current octave shift will appear on the display. Use +, - button to increase or decrease the octave shift you desire ranging of -2 to +2, i.e., two octave down or up.

About 3 seconds after you complete the operation, the display will return to indicate program number.

MEMORY

There are 5 memory banks to save your favourite settings. It is easy for you to recall your setting by pressing one button.

Press MEMORY button and hold down, display show “S-“ to prompt you to input memory code. When you press one of the 1 - 5 buttons, your settings are saved into this button.

The following settings can be saved: Program change, Transpose, Octave, Velocity Curve, Volume, Reverb level, Pedal definitions, Wheel definition, MSB, LSB, MIDI mode.

To recall your settings, simply click the MEMORY button. The display will show “O-“. Then press one of the 1 - 5 buttons, settings stored in the bank will be recalled and transmitted immediately.

About 3 seconds after you complete the operation, the display will return to indicate program number.

KEYBOARD SPLIT

With this feature engaged the keyboard is divided to right and left section. You can play a voice in the right section and another voice in the left section.

Press the SPLIT button, to engage split feature. All three dots on the display will light up. Now, all operating of functional setting are for the left section of the keyboard. When you use FUNCTION button for advanced setting, the display will show “F.-_ .” and the two dots will flash waiting for further entry. Please refer the next chapter - ADVANCE OPERATIONS - . About 3 seconds after you complete the operation, the display will show the program number for the left section of the keyboard.

Press and hold down the SPLIT button then press a key on the keyboard, this key will be split point to separate the keyboard.

Press the SPLIT button again, to disable the split keyboard feature. All three dots on the display will quench.

PITCH BEND WHEEL

Roll upward PITCH BEND wheel to increase the pitch or roll downwards the wheel to lower the pitch smoothly by transmitting pitch bend message ranging of 0 to 16383. Normally, the wheel stays on its centre position, i.e. no bending.

MODULATION WHEEL

Roll upward MODULATION wheel to add modulation effect ranging of 0 to 127. When the wheel stays on its lowest position, no modulation message is transmitted.

ADVANCED OPERATIONS

Besides the basic functional operations above, you may have more features using FUNCTION button.

When this function is engaged, all letters on the display will be followed by three dots for identification. Please note that there are two dots only when split feature engaged

VELOCITY CURVE

Press FUNCTION button, the display will show “F-“ to prompt you to input a function code. Then press button 1 (V.CURVE), current velocity curve code will appear on the display. Now, you can select a velocity code your desire ranging from 0 to 9 with single numerical button. You can also use + or - button to change it.

About 3 seconds after you complete the operation, the display will return to indicate program number.

VOLUME

Press FUNCTION button, the display will show “F-“ to prompt you to input a function code. Then press button 2 (VOL), current volume will appear on the display. Now, you can set volume your desire ranging from 1 to 128. You can also use + or - button to change it.

Transmitted volume is the figure on the display minus 1. For example, volume “099” on the display is transmitted as 98, etc.

About 3 seconds later after you complete the operation, the display will return to indicate program number.

REVERB LEVEL

Press FUNCTION button, the display will show “F-“ to prompt you to input a function code. Then press button 3 (REVERB), current reverb level will appear on the display. Now, you can set reverb level your desire ranging from 1 to 128. You can also use + or - button to change it.

Transmitted reverb level is the figure on the display minus 1. For example, volume “099” on the display is transmitted as 98, etc.

About 3 seconds after you complete the operation, the display will return to indicate program number.

CHANNEL SELECTING

Press FUNCTION button, the display will show “F-“ to prompt you to input a function code. Then press button 4 (CHANNEL), the current channel number will appear on the display. Use +, - button to increase or decrease the channel number you desire. You can also press numerical buttons 0 - 9 to enter the number directly ranging of 1 to 16. You must enter all 2 figures, for example, 01, 12 etc. If you don't complete data entry by 3 seconds, the display will recover to previous figure. If the figure exceeds 16, it'll turn to 1 automatically.

PEDAL DEFINITION

Press FUNCTION button, the display will show “F-“ to prompt you to input a function code. Then press button 5 (PEDAL), current pedal definition code will appear on the display. Now, you can define the pedal in the unit using number button 1 - 4. You can also use + or - button to change it.

- 1: Sustain Pedal - Pedal down for sustain on, pedal up for sustain off.
- 2: Soft Pedal - Down for soft on, up for soft off.
- 3: Channel Setting Pedal - Once press down the pedal, the channel number will be increase by one.

4: Memory Pedal - Once press down the pedal, the memory code will be increase by one and relevant settings will be recalled.

About 3 seconds after you complete the operation, the display will return to indicate program number.

WHEEL DEFINITION

Press FUNCTION button, the display will show “F-“ to prompt you to input a function code. Then press button 6 (WHEEL), current wheel definition code will appear on the display. Now, you can define the feature of the Modulation wheel in the unit using numerical button or + / - button to change it ranging from 1 to 128. Now, when you roll the Modulation Wheel, the parameter change with MIDI control you defined will be transmitted directly.

Transmitted control code is the figure on the display minus 1. For example, volume “099” on the display is transmitted as 98, etc.

About 3 seconds later after you complete the wheel definition operation, the display will return to indicate program number.

MSB

Press FUNCTION button, the display will show “F-“ to prompt you to input a function code. Then press button 7 (MSB), current MSB control code will appear on the display. Now, you can change MSB using numerical button or + / - button to change it ranging from 1 to 128.

Transmitted MSB is the figure on the display minus 1. For example, “099” on the display is transmitted as 98, etc.

About 3 seconds later after you complete the operation, the display will return to indicate program number.

LSB

Press FUNCTION button, the display will show “F-“ to prompt you to input a function code. Then press button 8 (LSB), current LSB value will appear on the display. Now, you can change LSB using numerical button or + / - button to change it ranging from 1 to 128.

Transmitted LSB is the figure on the display minus 1. For example, “099” on the display is transmitted as 98, etc.

About 3 seconds later after you complete the operation, the display will return to indicate program number. Bank select is executed if Program change is done!!

MIDI MODE

Press FUNCTION button, the display will show “F-“ to prompt you to input a function code. Then press button 9 (M.RST), current MIDI mode code will appear on the display. Now, you can change MIDI mode by numerical button 1 - 4 or + / - button to change it.

- 1: Omni On, Poly
- 2: Omni On, Mono
- 3: Omni Off, Poly
- 4: Omni Off, Mono

About 3 seconds after you complete the operation, the display will return to indicate program number.

RESET ALL CONTROLLER

Press FUNCTION button, the display will show “F-“ to prompt you to input a function code. Then press button 0 (C.RST), “ALL” will appear on the display and message of reset all controllers will be sent out immediately.

About 3 seconds later after you complete the operation, the display will return to indicate program number.

Trouble Shooting

If anything doesn't work . . .

please check following points:

Midi connection fault . . .

do you have installed your midi drivers from your soundcard ?

Look at START --> Settings --> Systemcontrol --> Multimedia --> Tab Midi for installed 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. Many sound cards have an adjustable latency time, they are used to work with slow computers, and so audio is not interrupt. At the installing of the sound card, the latency time is set to maximum value e.g. 512 samples, and this is too much, so your midi-notes are sounding delayed. Adjust this value to a minimum that is possible for your computer, and you will hear audio correct. But you can connect your keyboard to a sound expander too, and you will see that's no problem of your keyboard.

Midi Device is not recognize . . .

There are some misunderstandings, because a midi device is not recognized by computer, except USB, because the midi standard does not support recognizing of devices. The **MIDI STUDIO 2** is recognized by USB but not by 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 powerswitch on power-on position?

Is the keyboard is recognized by USB?

If you connect the keyboard by USB, it should be recognized.

Look at „Start à Settings à System control à System à Device manager at Audio/Video/Game controller for the keyboard settings. If not install your USB-driver!

Do you have set midi Out Port at your music program? Please Check!

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 everything doesn't help . . .

you can write an e-mail to our hotline Info@Miditech.de and we try to help you.

SPECIFICATIONS

Model: **MIDI STUDIO 2**

Keyboard	49 touch sensitive keys
Wheels	Pitch Bend Wheel Modulations Wheel
Function Buttons	Program, Split, Transpose, Octave Memory, Function, + / - Numerical buttons x10 Velocity Curve, Volume, Reverb Channel, Pedal, Wheel, MSB LSB, M.RST, C.RST
Connectors	USB MIDI OUT (DIN) Sustain Pedal
Power adaptor	9V/300mA (plus in centre)
Switch backpanel	ON / OFF
Display	3 - digit LED
Dimensions	82,3 x 19,5 x 7 cm
Weight	3,4 Kg
Power sources	- with external DC 9 volt/300mA adaptor - self-powered by USB connection from PC

MIDI IMPLEMENTATION:

Function		Transmitted	Remark	Format
Program	Default	0		Cn, pp
	Change	0 - 127		
Channel	Default	0		
	Change	0 - 15		
Note	Default	36 - 84		
	Change	0 - 120		
Velocity	Key down	0 - 127		9n, kk,
	Key up	0 - 127		8n, kk,
Volume	Default	99		Bn, 07,
	Change	0 - 127		vv
Reverb level	Default	63		Bn, 91,
	Change	0 - 127		vv
Chorus level	Default	63		Bn, 93,
	Change	0 - 127		vv
Pitch bend wheel		ok		En, vv,
Controller change (Definition of the Modulation wheel)	Default	1	Modulation	Bn, cc, vv
	Change	2	Breath	
		4	Foot pedal	
		5	Portamento	
		8	Balance	
		10	Pan	
		11	Expression	
		64	Damper	
		65	Portamento	
		66	Sostenuto	
		67	Soft pedal	
		92	Vibrato	
		94	Celeste	
95	Pan depth			
Non-registered				Bn, XX,
Non-registered				Bn, XX,
Reset controllers				Bn, 123,
Set MIDI mode	Default	Mode 1		
	Change	Omni Off		Bn, 124,
		Omni On		Bn, 125,
		Poly Off		Bn, 126,
		Poly On		Bn, 127,

Notes:

1. "n" refers to channel number, "pp" refers to program number, "kk" refers to key number, "vv" refers to one byte data, "cc" refers to control number.

2. There are more controllers besides that listed in the table. Please refer MIDI specification for details

3. Mode 1: Omni On, Poly Mode 2: Omni On, Mono
 Mode 3: Omni Off, Poly Mode 4: Omni Off, Mono

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Design and specifications subject to change without notice.

No liability for printing mistakes