

CA401 MIDI Settings Manual

The term MIDI is an acronym for Musical Instrument Digital Interface, an international standard for connecting musical instruments, computers, and other devices to allow the exchange of performance data.

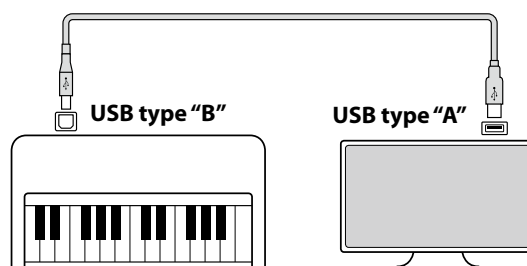
When the instrument is connected to a computer using a USB cable, the computer will recognise the instrument as a MIDI device, allowing the instrument to send and receive MIDI messages in the same manner as a normal MIDI interface.

Use a suitable USB cable to connect the USB type A port on the computer to the USB type B port on the digital piano. If there is no USB type A port on the computer, a conversion adapter may be required.

MIDI use case

When connected to a computer, the digital piano can be used to record and playback performances using sequencer software running on the computer. When multi-timbral mode is enabled on the digital piano, it becomes possible to record and playback multi-track songs, with different sounds playing simultaneously on each MIDI channel.

P3 Multi-timbral Mode



MIDI functions

The following functions are available with MIDI.

Transmit/receive note information

Transmit/receive note information from a MIDI-connected musical instrument or device.

Transmit/receive Program Change number

Transmit/receive program change data to/from a MIDI connected musical instrument or device.

Transmit/receive pedal data

Transmit/receive sustain, sostenuto, and soft pedal data from a MIDI-connected musical instrument or device.

Receive volume data

Receive MIDI volume data sent from a MIDI-connected musical instrument or device.

Transmit/receive channel settings

Specify transmit/receive channels within the range of 1 to 16.

Multi-timbral mode setting

Receive multiple channel MIDI data from a MIDI-connected musical instrument or device.

* Multi-timbral mode setting must be enabled.

Transmit/receive exclusive data

Transmit/receive panel or menu function settings as exclusive data.

Copyright notice

Pieces of music based on existing works such as CDs, music files, SMF data, etc. should only be used for private listening, and for enjoying with friends and family. According to copyright law, it is not permitted to play commercial music publicly without permission from the copyright owner. Kawai is not liable for any copyright law infringement committed by the digital piano user.

P5 MIDI Implementation Chart



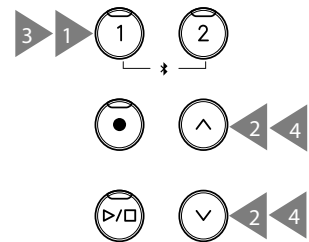
"MIDI" is a registered trademark of the Association of Musical Electronics Industry.

MIDI settings

Function name	Explanation	Default setting
Transmit Program Change Number	This setting determines whether or not the digital piano will transmit program change information when sounds are changed. It is also possible to transmit a program change number (ranging from 1 to 128) in order to change the sound of an external MIDI device.	On
Local Control	This setting determines whether the digital piano will play an internal sound when the keys are pressed. This setting is useful when using the digital piano to control an external MIDI device. When Local Control is set to "On", the digital piano will play an internal sound and transmit information to an external MIDI device. When Local Control is set to "Off", the digital piano will transmit information to an external MIDI device only.	On
MIDI Channel	This setting allows the transmit/receive channel to be specified. The selected channel will function as both the transmit and receive channel. Separate transmit/receive channels cannot be specified.	1ch
Multi-timbral mode	This setting determines whether or not the digital piano is able to receive MIDI information on more than one MIDI channel simultaneously. This allows the instrument to play back multitrack, multi-timbral performance data sent from an external MIDI device.	Off

Entering MIDI settings

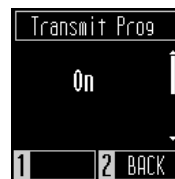
1. On the Home screen, press the [1] button to enter the Settings menu.
2. Press the [UP]/[DOWN] buttons to select a setting.
3. Press the [1] button.
4. Press the [UP]/[DOWN] buttons to set the value or type.



Transmit Program Change Number

Turning Transmit Program Number ON/OFF

On the Transmit Program screen, press the [UP]/[DOWN] buttons to turn the setting ON or OFF.



Sending a Program Number

On the Send Program screen, press the [UP]/[DOWN] buttons to select the Program Number, then press the [1] button to send the selected number.
Program Numbers in the range of 1~128 can be sent.

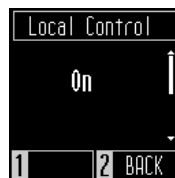


- The Transmit Program Number Change setting is effective until the power is turned off.
- The preferred Transmit Program Number Change setting can be stored to the Startup Setting memory for automatic selection when the instrument is turned on. Please refer to Owner's Manual page 26 for more information.
- Exclusive information is not sent if the Transmit Program Change Number setting is OFF.

Local Control

Setting Local Control

On the Local Control screen, press the [UP]/[DOWN] buttons to turn the setting ON or OFF.



- The Local Control setting is effective until the power is turned off.
- The preferred Local Control setting can be stored to the Startup Setting memory for automatic selection when the instrument is turned on. Please refer to Owner's Manual page 26 for more information.

MIDI Channel (transmit/receive)

Setting MIDI channel

On the MIDI Channel screen, press the [UP]/[DOWN] buttons to select the MIDI channel.



- Information from all 16 channels is received while the power is on.
- The MIDI Channel setting is effective until the power is turned off.
- The preferred MIDI Channel setting can be stored to the Startup Setting memory for automatic selection when the instrument is turned on. Please refer to Owner's Manual page 26 for more information.

Multi-timbral Mode

Setting Multi-timbral Mode

On the Multi-timbral Mode screen, press the [UP]/[DOWN] buttons to turn the setting ON or OFF.



- MIDI data received through channel 10 is not played while Multi-timbral mode is ON.
- The preferred Multi-timbral Mode setting can be stored to the Startup Setting memory for automatic selection when the instrument is turned on. Please refer to Owner's Manual page 26 for more information.

Program Change Number List

Sound name	Multi-timbral mode Off	Multi-timbral mode On		
	Program number	Program number	Bank MSB	Bank LSB
SK-EX Competition Grand Concert	1	1	121	0
EX Concert Grand Piano Concert	2	1	95	27
Upright Piano Classic	3	1	95	25
SK-EX Competition Grand Piano Jazz	4	1	121	1
EX Concert Grand Piano Pop	5	1	95	28
SK-EX Competition Grand Piano Mellow	6	1	121	2
EX Concert Grand Piano Mellow	7	1	95	29
EX Concert Grand Piano Modern	8	2	121	0
Tine Electric Piano	9	5	121	0
Modern Electric Piano	10	6	121	0
Jazz Organ	11	18	121	0
Church Organ	12	20	121	0
Harpsichord	13	7	121	0
Vibraphone	14	12	121	0
String Ensemble	15	49	121	0
Slow Strings	16	45	95	1
Choir	17	53	121	0
New Age Pad	18	89	121	0
Atmosphere	19	100	121	0

MIDI Implementation Chart

Date : December 2022 Version : 1.0

Function		Transmit	Receive	Remarks
Basic channel	At power-up	1	1	
	Settable	1 - 16	1 - 16	
Mode	At power-up	Mode 3	Mode 1	Omni mode is on at power-up. Omni mode can be turned off through MIDI channel setting operations.
	Message	X	Mode 1, 3	
	Alternative	*****	X	
Note number		15 - 113*	0 - 127	* 15 - 113, including transpose
	Range	*****	0 - 127	
Velocity	Note on	O	O	
	Note off	O	O	
After touch	Key specific	X	X	
	Channel specific	X	X	
Pitch bend		X	X	
Control change				
	7	X	O	Volume
	64	O (Right pedal)	O	Damper pedal
	66	O (Middle pedal)	O	Sostenuto pedal
	67	O (Left pedal)	O	Soft pedal
Program change settable range		O (0 - 127)	O	(Please refer to the "Program Change Number List" [page 4])

Exclusive		O	O	Transmission can be selected
Common	Song position	X	X	
	Song selection	X	X	
	Tune	X	X	
Real time	Clock	X	X	
	Commands	X	X	
Other functions	Local On / Off	X	O	
	All notes Off	X	O	
	Active sensing	X	O	
	Reset	X	X	
Remarks				

Mode 1: omni mode On, Poly
Mode 3: omni mode Off, Poly

Mode 2: omni mode On, Mono
Mode 4: omni mode Off, Mono

O : Yes
X : No