

CA901/CA701 MIDI Settings Manual

MIDI Settings

MIDI Overview

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.

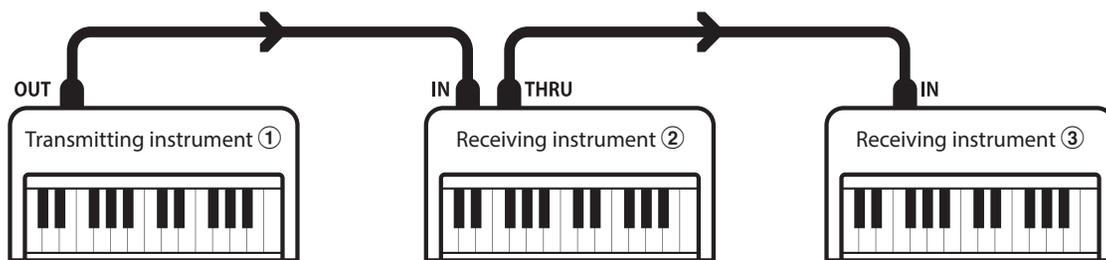
■ MIDI Terminals

MIDI terminal	Function
MIDI IN	Receiving note, program change, and other data.
MIDI OUT	Sending note, program change, and other data.

■ MIDI channels

MIDI uses channels to exchange data back and forth between MIDI devices. There are receive (MIDI IN) and transmit (MIDI OUT) channels. Most musical instruments or devices with MIDI functions are equipped with both MIDI IN and OUT jacks and are capable of transmitting and receiving data via MIDI. The receive channels are used to receive data from another MIDI device, and the transmit channels are used to transmit data to another MIDI device.

The illustration below shows three musical instruments, connected together using MIDI.



Transmitting instrument ① sends transmit channel and keyboard information to receiving instruments ②/③.

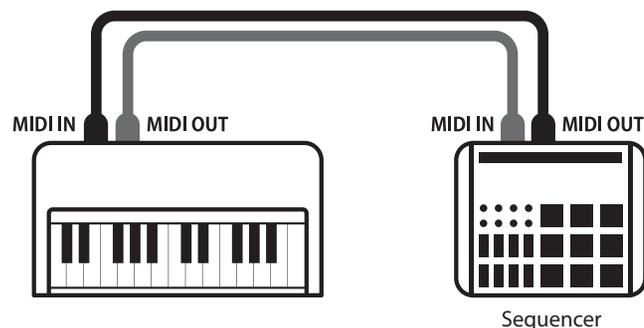
The information arrives at the receiving instruments ②/③.

Receiving instruments ②/③ will respond to MIDI data that is sent if their receive channel is the same as the transmit channel of the transmitting instrument ①. If the channels do not match, the receiving instruments ②/③ will not respond to any data that is sent.

For both receiving and transmitting, channels 1-16 can be used.

■ Recording/playing with a sequencer

When connected to a sequencer (or a computer running MIDI sequencing software), the CA99/CA79 digital piano can be used to record and playback multi-track songs, with separate sounds playing simultaneously on each channel.



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■ MIDI Functions

The CA99/CA79 digital piano supports the following MIDI functions:

Transmit/receive note information

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

Transmit/receive channel settings

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

Receive volume data

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

Transmit/receive program change information

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 to/from a MIDI-connected musical instrument or device.

Multi-timbral mode setting

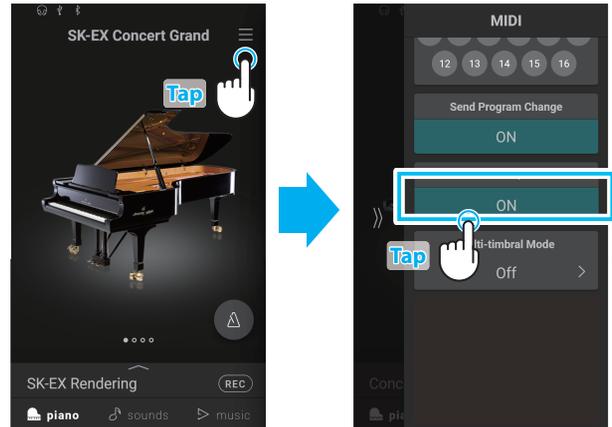
Receive multiple channel MIDI data from a MIDI-connected musical instrument or device.

Ref. Please refer to the “MIDI Implementation Chart” on page 11 for further information regarding the MIDI capabilities of the CA99/CA79 digital piano.

■ Entering the MIDI Settings menu

Tap the ☰ button in the top right corner of the screen to open the Menu.

Tap MIDI to enter the MIDI category.



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1 MIDI Channel

The MIDI Channel 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).

■ Changing the MIDI Channel

In the Play MIDI Channel area, tap the number buttons to select the transmit/receive MIDI channel.

The MIDI channel can be set from 1 to 16.



■ Omni mode

When the CA99/CA79 digital piano is turned on, the instrument is automatically set to "omni mode on", allowing MIDI information to be received on all MIDI channels (1-16). When the MIDI Channel setting is used to specify a transmit/receive channel, the instrument will be set to "omni mode off".

■ Multi-timbral mode and Split/Dual modes

Using Split mode with Multi-timbral mode enabled

Notes played in the lower section of the keyboard will be transmitted on the channel that is 1 channel higher than the specified channel. For example, if the MIDI channel is set to 3, notes played in the lower section of the keyboard will be transmitted on channel 4.

Using Dual mode with Multi-timbral mode enabled

Notes played will be transmitted on two channels: the specified channel and the channel that is 1 channel higher.

For example, if the MIDI channel is set to 3, notes played on the keyboard will be transmitted on channels 3 and 4.

* If the specified MIDI channel is 16, the lower section / layered part will be transmitted on channel 1.

MIDI Settings

2 Transmit Program Change Numbers

The Transmit Program Change Numbers setting determines whether the CA99/CA79 digital piano will transmit program change information via MIDI when sounds are selected.

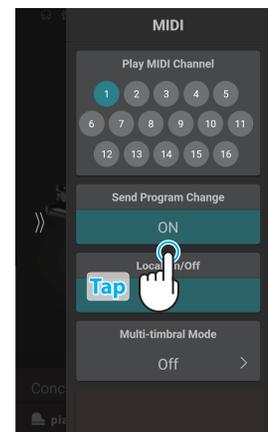
■ Transmit Program Change Numbers setting

Transmit PGM#	Multi-timbral setting	Effect of selecting sounds
On (default)	Off, On1	Sound tab selections will send PGM# shown in the left column*.
On	On2	Sound tab selections will send PGM# shown in the right column*.
Off	Off	Program Change information will not be transmitted via MIDI.

Ref. "Program Change Number List" P. 7.

■ Changing the Transmit Program Change Numbers setting

In the Send Program Change area, tap the [On/Off] button to turn the function on/off.



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3 Local Control

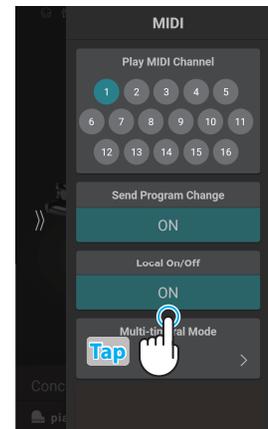
The Local Control setting determines whether the instrument will play an internal sound when the keys are pressed. This setting may be useful when using the CA99/CA79 digital piano to control an external MIDI device that is connected to the instrument's amplifier/speakers.

Local Control setting

Local Control	Description
Off	The instrument will transmit information to an external MIDI device only.
On (default)	The instrument will play an internal sound and transmit information to an external MIDI device.

Changing the Local Control setting

In the Local On/Off area, tap the [On/Off] button to turn the function on/off.



MIDI Settings

4 Multi-timbral Mode

The Multi-timbral Mode setting determines whether or not the CA99/CA79 digital piano is able to receive MIDI information on more than one MIDI channel simultaneously. This allows the instrument to play back multi-track, multi-timbral performance data sent from an external MIDI device.

■ Multi-timbral Mode setting

Multi-timbral Mode	Selected sound
Off (default)	The sound shown in the left column is selected*.
On1	The sound shown in the left column is selected*.
On2	The sound shown in the right column is selected*.

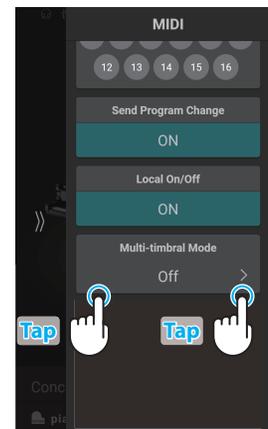
Ref. "Program Change Number List" P. 7.

■ Changing the Multi-timbral Mode setting

In the Multi Timbral Mode area, tap the < > buttons to select On1, On2, or Off.

☑ CHECK

Multi Timbral Mode will not be displayed when the "SK-EX Rendering" piano sound variation is selected.



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Program Change Number List

Sound Name	Multi-timbral mode = off/ on1	Multi-timbral mode = on2		
	Program Number	Program Number	Bank	
			MSB	LSB
Piano				
SK-EX Competition Grand Piano Rendering Classic	1	1	95	117
SK-EX Competition Grand Piano Rendering Brilliant	2	1	95	118
SK-EX Competition Grand Piano Rendering Romantic	3	1	95	119
SK-EX Competition Grand Piano Rendering Rich	4	1	95	120
SK-EX Competition Grand Piano Rendering Vintage	5	1	95	121
SK-EX Competition Grand Piano Concert	6	1	121	0
SK-EX Competition Grand Piano Jazz	7	1	121	1
SK-EX Competition Grand Piano Mellow	8	1	121	2
SK-EX Concert Grand Piano Rendering Classic	9	1	95	112
SK-EX Concert Grand Piano Rendering Brilliant	10	1	95	113
SK-EX Concert Grand Piano Rendering Romantic	11	1	95	114
SK-EX Concert Grand Piano Rendering Rich	12	1	95	115
SK-EX Concert Grand Piano Rendering Vintage	13	1	95	116
SK-EX Concert Grand Piano Concert	14	1	95	35
SK-EX Concert Grand Piano Jazz	15	1	95	36
SK-EX Concert Grand Piano Mellow	16	1	95	37
EX Concert Grand Piano Concert	17	1	95	27
EX Concert Grand Piano Mellow	18	1	95	29
EX Concert Grand Piano Standard	19	1	95	16
EX Concert Grand Piano Pop	20	1	95	28
EX Concert Grand Piano Bright	21	2	95	10
EX Concert Grand Piano New Age	22	1	95	17
EX Concert Grand Piano Modern	23	2	121	0
SK-5 Grand Piano Classic	24	1	95	30
SK-5 Grand Piano Jazz	25	1	95	32
SK-5 Grand Piano Pop	26	1	95	31
Upright Piano Classic	27	1	95	25
Upright Piano Boogie	28	1	95	26
Upright Piano Vintage	29	1	95	34
Upright Piano Honky Tonk	30	4	121	0
Electric Piano				
Tine Electric Piano	31	5	121	0
Reed Electric Piano	32	5	121	3
Modern Electric Piano	33	6	121	0
Electric Grand	34	3	121	0
Tine Electric Piano 2	35	5	121	1
Tine Electric Piano 3	36	5	95	5
Tine Electric Piano 4	37	5	95	8
Crystal Electric Piano	38	6	95	1
Modern Electric Piano 2	39	6	121	1
Modern Electric Piano 3	40	6	121	2
Clavi	41	8	121	0

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Program Change Number List

Sound Name	Multi-timbral mode = off/ on1	Multi-timbral mode = on2		
	Program Number	Program Number	Bank	
			MSB	LSB
Organ				
Jazz Organ	42	18	121	0
Blues Organ	43	17	121	0
Ballad Organ	44	17	95	5
Gospel Organ	45	17	95	3
Drawbar Organ	46	17	95	1
Drawbar Organ 2	47	17	95	2
Drawbar Organ 3	48	18	121	2
Drawbar Organ 4	49	17	121	3
Church Organ				
Church Organ	50	20	121	0
Diapason	51	20	95	7
Full Ensemble	52	21	95	1
Diapason Octave	53	20	95	6
Chiffy Tibia	54	20	95	17
Principal Octave	55	20	95	24
Principal Choir	56	20	95	23
Baroque	57	20	95	19
Soft Diapason	58	20	95	45
Soft Strings	59	20	95	41
Mellow Flutes	60	20	95	48
Medium Ensemble	61	20	95	42
Loud Ensemble	62	20	95	43
Bright Ensemble	63	20	95	47
Full Organ	64	20	95	44
Reed Ensemble	65	20	95	46
Harpsichord				
Harpsichord	66	7	121	0
Harpsichord Octave	67	7	121	1
Harpsichord 2	68	7	121	3
Mallets				
Vibraphone	69	12	121	0
Marimba	70	13	121	0
Celesta	71	9	121	0
Bell Split	72	15	95	5
Strings				
Slow Strings	73	45	95	1
String Pad	74	49	95	8
Warm Strings	75	49	95	1
String Ensemble	76	49	121	0
Soft Orchestra	77	50	95	1
Chamber Strings	78	49	95	14
Harp	79	47	121	0

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Program Change Number List

Sound Name	Multi-timbral mode = off/ on1	Multi-timbral mode = on2		
	Program Number	Program Number	Bank	
			MSB	LSB
Pizzicato Strings	80	46	121	0
Vocal				
Choir	81	53	121	0
Pop Ooh	82	54	95	39
Pop Aah	83	54	95	40
Choir 2	84	54	95	53
Jazz Ensemble	85	54	95	2
Pop Ensemble	86	54	95	7
Slow Choir	87	53	95	2
Breathy Choir	88	53	95	1
Pad				
New Age Pad	89	89	121	0
Square Pad	90	90	95	5
Itopia	91	92	121	1
Atmosphere	92	100	121	0
Brightness	93	101	95	1
New Age Pad 2	94	89	95	2
Brass Pad	95	62	95	2
Bowed Pad	96	93	121	0
Bright Warm Pad	97	90	95	1
Bass				
Wood Bass	98	33	121	0
Electric Bass	99	34	121	0
Electric Bass 2	100	34	95	5
Fretless Bass	101	36	121	0
Wood Bass & Ride	102	33	95	1
Electric Bass & Ride	103	34	95	2
Guitar				
Ballad Guitar	104	26	95	6
Pick Nylon Guitar	105	25	95	3
Finger Nylon Guitar	106	25	95	4
MIDI				
Glockenspiel	-	10	121	0
Music Box	-	11	121	0
Xylophone	-	14	121	0
Tubular Bells	-	15	121	0
Church Bells	-	15	121	1
Rock Organ	-	19	121	0
Accordion	-	22	121	0
Harmonica	-	23	121	0
Nylon Acoustic Guitar	-	25	121	0
Modern Jazz Guitar	-	27	121	0

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Program Change Number List

Sound Name	Multi-timbral mode = off/ on1	Multi-timbral mode = on2		
	Program Number	Program Number	Bank	
			MSB	LSB
Muted Electric Guitar	-	29	121	0
Cutting Guitar	-	29	121	1
Overdrive Guitar	-	30	121	0
Finger Slap Bass	-	34	121	1
Synth Bass	-	39	121	0
Violin	-	41	121	0
Viola	-	42	121	0
Cello	-	43	121	0
Contrabass	-	44	121	0
Pizzicato	-	46	121	0
Harp	-	47	121	0
Orchestra Hit	-	56	121	0
Trumpet	-	57	121	0
Trombone	-	58	121	0
Tuba	-	59	121	0
Muted Trumpet	-	60	121	0
French Horns	-	61	121	0
Brass Section	-	62	121	0
Synth Brass	-	63	121	0
Soprano Sax	-	65	121	0
Alto Sax	-	66	121	0
Tenor Sax	-	67	121	0
Baritone Sax	-	68	121	0
Oboe	-	69	121	0
English Horn	-	70	121	0
Bassoon	-	71	121	0
Clarinet	-	72	121	0
Piccolo	-	73	121	0
Flute	-	74	121	0
Pan Flute	-	76	121	0
Square	-	81	121	0
Sine	-	81	121	2
Sawtooth	-	82	121	0
Warm Pad	-	90	121	0
Pop Set	-	1	120	0
Ambience Set	-	33	120	0
Ballad Set	-	9	120	0
Analog Set	-	26	120	0
Dance Set	-	27	120	0
Brush Set	-	41	120	0
Orchestra Set	-	49	120	0

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MIDI Implementation Chart

[DIGITAL PIANO]
Kawai CA901/CA701

MIDI Implementation Chart

Date: November 2022
Version: 1.0

Function	Transmitted	Section	Remarks
Basic Channel	Default	1 - 16	1 - 16
	Changed	1 - 16	1 - 16
Mode	Default	Mode 3	Mode 1
	Messages	X	Mode 1, 3
	Altered	*****	
Note Number		21 - 108**	0 - 127
	True Voice	*****	0 - 127
Velocity	Note ON	0	0
	Note OFF	0	0
After Touch	Key	X	X
	Channel	X	X
Pitch Bend		X	X
Control Change	0, 32	0	0
	7	X	0
	10	X	0
	11	X	0
	64 (Right pedal)	0	0
	66 (Middle pedal)	0	0
67 (Left pedal)	0	0	
Program Change		0 0 - 127	0 0 - 127 ***
	True #	*****	0 - 127
System Exclusive		0	0
Common	Song Position	X	X
	Song Select	X	X
	Tune	X	X
System Real Time	Clock	X	X
	Commands	0	X
Others	Local OFF/ON	X	0
	All Note OFF	X	0 (123-127)
	Active Sense	X	0
	Reset	X	X
Notes			

Mode 1 : OMNI ON , POLY
Mode 3 : OMNI OFF, POLY

Mode 2 : OMNI ON , MONO
Mode 4 : OMNI OFF, MONO

0 : Yes
X : No