

# Roland SI-24 MIDI Implementation

SI-24 Version 1.00 Mar. 10, 2003

This is the MIDI Implementation in case MIDI control Mode of SI-24 is turned on.

User mode 1 and 2 is not stated on this MIDI Implementation.

In case MIDI control Mode is turned off, the control should be done through R-BUS.

## 1. TRANSMITTED DATA AND RECOGNIZED RECEIVE DATA

### ■ Channel Voice message

#### ● Note On/Off

This unit sends or receives Note On when it is operated under H mode.

Status	Second	Third
9nH	mmH	llH

n = MIDI Channel No. : 0H (0)  
mm = Note No. : 00H (0)  
ll = Velocity : 00H, 7FH (0, 127)

#### ● Polyphonic Key Pressure

This unit sends or receives Polyphonic Key Pressure when it is operated under S.C mode.

Status	Second	Third
AnH	mmH	llH

n = MIDI Channel No.: 0H (0)  
mm = Note No.: 00H - 1BH, 20H - 29H, 30H - 39H, 40H - 49H (0 - 27, 32 - 41, 48 - 57, 64 - 73)  
ll = Level Meter Value: 00H - 3FH, 41H - 7FH (0 - 63, 65 - 127)

### Operations corresponding to Polyphonic Key Pressure

#### ○ S.C Mode

##### ◇ Transmitting message

This unit sends message when value of fader or switch status changes.

Knobs or Dials	Note No.	Level Meter Value
PAN 1	00H, 10H (0, 16) (*1)	01H - 3FH, 7FH - 41H (1-63:Clock wise, 127-65:Counter Clock Wise)
PAN 2	01H, 11H (1, 17) (*1)	01H - 3FH, 7FH - 41H (1-63:Clock wise, 127-65:Counter Clock Wise)
PAN 3	02H, 12H (2, 18) (*1)	01H - 3FH, 7FH - 41H (1-63:Clock wise, 127-65:Counter Clock Wise)
PAN 4	03H, 13H (3, 19) (*1)	01H - 3FH, 7FH - 41H (1-63:Clock wise, 127-65:Counter Clock Wise)
PAN 5	04H, 14H (4, 20) (*1)	01H - 3FH, 7FH - 41H (1-63:Clock wise, 127-65:Counter Clock Wise)
PAN 6	05H, 15H (5, 21) (*1)	01H - 3FH, 7FH - 41H (1-63:Clock wise, 127-65:Counter Clock Wise)
PAN 7	06H, 16H (6, 22) (*1)	01H - 3FH, 7FH - 41H (1-63:Clock wise, 127-65:Counter Clock Wise)
PAN 8	07H, 17H (7, 23) (*1)	01H - 3FH, 7FH - 41H (1-63:Clock wise, 127-65:Counter Clock Wise)
PAN 9	08H, 18H (8, 24) (*1)	01H - 3FH, 7FH - 41H (1-63:Clock wise, 127-65:Counter Clock Wise)
PAN 10	09H, 19H (9, 25) (*1)	01H - 3FH, 7FH - 41H (1-63:Clock wise, 127-65:Counter Clock Wise)
PAN 11	0AH, 1AH (10, 26) (*1)	01H - 3FH, 7FH - 41H (1-63:Clock wise, 127-65:Counter Clock Wise)
PAN 12	0BH, 1BH (11, 27) (*1)	01H - 3FH, 7FH - 41H (1-63:Clock wise, 127-65:Counter Clock Wise)
EQ 1	0CH (12)	00H, 7FH (0:released, 127:pressed)
EQ 2	0DH (13)	00H, 7FH (0:released, 127:pressed)
EQ 3	0EH (14)	00H, 7FH (0:released, 127:pressed)
EQ 4	0FH (15)	00H, 7FH (0:released, 127:pressed)
1	20H, 30H, 40H (32, 48, 64) (*2)	00H, 7FH (0:released, 127:pressed)
2	21H, 31H, 41H (33, 49, 65) (*2)	00H, 7FH (0:released, 127:pressed)
3	22H, 32H, 42H (34, 50, 66) (*2)	00H, 7FH (0:released, 127:pressed)
4	23H, 33H, 43H (35, 51, 67) (*2)	00H, 7FH (0:released, 127:pressed)
5	24H, 34H, 44H (36, 52, 68) (*2)	00H, 7FH (0:released, 127:pressed)
6	25H, 35H, 45H (37, 53, 69) (*2)	00H, 7FH (0:released, 127:pressed)
7	26H, 36H, 46H (38, 54, 70) (*2)	00H, 7FH (0:released, 127:pressed)
8	27H, 37H, 47H (39, 55, 71) (*2)	00H, 7FH (0:released, 127:pressed)
9	28H, 38H, 48H (40, 56, 72) (*2)	00H, 7FH (0:released, 127:pressed)
0	29H, 39H, 49H (41, 57, 73) (*2)	00H, 7FH (0:released, 127:pressed)

(\*1) Transmits message in order subject that [EQ/SEND] is On and [PLUG-IN] is On.

(\*2) Transmits message in order subject that [MARKER] is On, [SHORTCUT] is On and [SCREEN SET] is On.

##### ◇ Receiving message

Controls fader movement and On/Off of LED.

Knobs or Dials	Note No.	Level Meter Value
EQ 1	0CH (52)	00H, 02H (0:off, 2:red)
EQ 2	0DH (53)	00H, 02H (0:off, 2:red)
EQ 3	0EH (54)	00H, 02H (0:off, 2:red)
EQ 4	0FH (55)	00H, 02H (0:off, 2:red)
1	20H, 30H, 40H (32, 48, 64) (*3)	00H, 02H (0:off, 2:red)
2	21H, 31H, 41H (33, 49, 65) (*3)	00H, 02H (0:off, 2:red)
3	22H, 32H, 42H (34, 50, 66) (*3)	00H, 02H (0:off, 2:red)
4	23H, 33H, 43H (35, 51, 67) (*3)	00H, 02H (0:off, 2:red)
5	24H, 34H, 44H (36, 52, 68) (*3)	00H, 02H (0:off, 2:red)
6	25H, 35H, 45H (37, 53, 69) (*3)	00H, 02H (0:off, 2:red)
7	26H, 36H, 46H (38, 54, 70) (*3)	00H, 02H (0:off, 2:red)
8	27H, 37H, 47H (39, 55, 71) (*3)	00H, 02H (0:off, 2:red)
9	28H, 38H, 48H (40, 56, 72) (*3)	00H, 02H (0:off, 2:red)
0	29H, 39H, 49H (41, 57, 73) (*3)	00H, 02H (0:off, 2:red)

(\*3) Receives message in order subject that [MARKER] is On, [SHORTCUT] is On and [SCREEN SET] is On.

● Control Change

Status            Second            Third  
BnH                mmH                lIH

n = MIDI Channel No.:    00H (ch.1)  
mm = Controller No.:    00H - 7FH (0 - 119)  
ll = Controller Value:    00H - 7FH (0 - 127)

Operations corresponding to Control Change

○ L5 Mode

◇ Transmitting message

This unit transmits message when value of fader, switch status or encoder position changes.

Knobs or Dials	Controller No.	Controller Value
FADER 1	00H ( 0)	00H - 7FH (0:bottom-127:top)
FADER 2	01H ( 1)	00H - 7FH (0:bottom-127:top)
FADER 3	02H ( 2)	00H - 7FH (0:bottom-127:top)
FADER 4	03H ( 3)	00H - 7FH (0:bottom-127:top)
FADER 5	04H ( 4)	00H - 7FH (0:bottom-127:top)
FADER 6	05H ( 5)	00H - 7FH (0:bottom-127:top)
FADER 7	06H ( 6)	00H - 7FH (0:bottom-127:top)
FADER 8	07H ( 7)	00H - 7FH (0:bottom-127:top)
FADER 9	08H ( 8)	00H - 7FH (0:bottom-127:top)
FADER 10	09H ( 9)	00H - 7FH (0:bottom-127:top)
FADER 11	0AH (10)	00H - 7FH (0:bottom-127:top)
FADER 12	0BH (11)	00H - 7FH (0:bottom-127:top)
FADER MASTER	0CH (12)	00H - 7FH (0:bottom-127:top)
Joy Stick X	0DH (13)	00H - 7FH (0:left-127:right)
Joy Stick Y	0EH (14)	00H - 7FH (0:bottom-127:top)
Jog wheel	0FH (15)	01H - 3FH, 7FH - 41H (1-63:Clock wise, 127-65:Counter Clock Wise)
STATUS 1	10H (16)	00H, 7FH (0:released, 127:pressed)
STATUS 2	11H (17)	00H, 7FH (0:released, 127:pressed)
STATUS 3	12H (18)	00H, 7FH (0:released, 127:pressed)
STATUS 4	13H (19)	00H, 7FH (0:released, 127:pressed)
STATUS 5	14H (20)	00H, 7FH (0:released, 127:pressed)
STATUS 6	15H (21)	00H, 7FH (0:released, 127:pressed)
STATUS 7	16H (22)	00H, 7FH (0:released, 127:pressed)
STATUS 8	17H (23)	00H, 7FH (0:released, 127:pressed)
STATUS 9	18H (24)	00H, 7FH (0:released, 127:pressed)
STATUS 10	19H (25)	00H, 7FH (0:released, 127:pressed)
STATUS 11	1AH (26)	00H, 7FH (0:released, 127:pressed)
STATUS 12	1BH (27)	00H, 7FH (0:released, 127:pressed)
CH SELECT 1	1CH (28)	00H, 7FH (0:released, 127:pressed)
CH SELECT 2	1DH (29)	00H, 7FH (0:released, 127:pressed)
CH SELECT 3	1EH (30)	00H, 7FH (0:released, 127:pressed)
CH SELECT 4	1FH (31)	00H, 7FH (0:released, 127:pressed)
CH SELECT 5	20H (32)	00H, 7FH (0:released, 127:pressed)
CH SELECT 6	21H (33)	00H, 7FH (0:released, 127:pressed)
CH SELECT 7	22H (34)	00H, 7FH (0:released, 127:pressed)
CH SELECT 8	23H (35)	00H, 7FH (0:released, 127:pressed)
CH SELECT 9	24H (36)	00H, 7FH (0:released, 127:pressed)
CH SELECT 10	25H (37)	00H, 7FH (0:released, 127:pressed)
CH SELECT 11	26H (38)	00H, 7FH (0:released, 127:pressed)
CH SELECT 12	27H (39)	00H, 7FH (0:released, 127:pressed)
PAN 1	28H (40)	01H - 3FH, 7FH - 41H (1-63:Clock wise, 127-65:Counter Clock Wise)
PAN 2	29H (41)	01H - 3FH, 7FH - 41H (1-63:Clock wise, 127-65:Counter Clock Wise)
PAN 3	2AH (42)	01H - 3FH, 7FH - 41H (1-63:Clock wise, 127-65:Counter Clock Wise)
PAN 4	2BH (43)	01H - 3FH, 7FH - 41H (1-63:Clock wise, 127-65:Counter Clock Wise)
PAN 5	2CH (44)	01H - 3FH, 7FH - 41H (1-63:Clock wise, 127-65:Counter Clock Wise)
PAN 6	2DH (45)	01H - 3FH, 7FH - 41H (1-63:Clock wise, 127-65:Counter Clock Wise)
PAN 7	2EH (46)	01H - 3FH, 7FH - 41H (1-63:Clock wise, 127-65:Counter Clock Wise)
PAN 8	2FH (47)	01H - 3FH, 7FH - 41H (1-63:Clock wise, 127-65:Counter Clock Wise)
PAN 9	30H (48)	01H - 3FH, 7FH - 41H (1-63:Clock wise, 127-65:Counter Clock Wise)
PAN 10	31H (49)	01H - 3FH, 7FH - 41H (1-63:Clock wise, 127-65:Counter Clock Wise)
PAN 11	32H (50)	01H - 3FH, 7FH - 41H (1-63:Clock wise, 127-65:Counter Clock Wise)
PAN 12	33H (51)	01H - 3FH, 7FH - 41H (1-63:Clock wise, 127-65:Counter Clock Wise)
EQ 1	34H (52)	00H, 7FH (0:released, 127:pressed)
EQ 2	35H (53)	00H, 7FH (0:released, 127:pressed)
EQ 3	36H (54)	00H, 7FH (0:released, 127:pressed)
EQ 4	37H (55)	00H, 7FH (0:released, 127:pressed)
PLUG IN	38H (56)	00H, 7FH (0:released, 127:pressed)
EQ/SEND	39H (57)	00H, 7FH (0:released, 127:pressed)
SHIFT	3AH (58)	00H, 7FH (0:released, 127:pressed)
AUTOMIX	3BH (59)	00H, 7FH (0:released, 127:pressed)
REC/PLAY	3CH (60)	00H, 7FH (0:released, 127:pressed)
SOLO	3DH (61)	00H, 7FH (0:released, 127:pressed)
MUTE	3EH (62)	00H, 7FH (0:released, 127:pressed)
INPUT	3FH (63)	00H, 7FH (0:released, 127:pressed)
OUTPUT	40H (64)	00H, 7FH (0:released, 127:pressed)
BUS	41H (65)	00H, 7FH (0:released, 127:pressed)
Tr1-12	42H (66)	00H, 7FH (0:released, 127:pressed)
Tr13-24	43H (67)	00H, 7FH (0:released, 127:pressed)
DIGITAL IN	44H (68) (*4)	00H, 7FH (0:released, 127:pressed)
SURROUND ON	45H (69)	00H, 7FH (0:released, 127:pressed)
SYSTEM	46H (70)	00H, 7FH (0:released, 127:pressed)
MARKER	47H (71)	00H, 7FH (0:released, 127:pressed)
SHORTCUT	48H (72)	00H, 7FH (0:released, 127:pressed)
SCREEN SET	49H (73)	00H, 7FH (0:released, 127:pressed)
0	4AH (74) (*5)	00H, 7FH (0:released, 127:pressed)
1	4BH (75) (*5)	00H, 7FH (0:released, 127:pressed)
2	4CH (76) (*5)	00H, 7FH (0:released, 127:pressed)
3	4DH (77) (*5)	00H, 7FH (0:released, 127:pressed)
4	4EH (78) (*5)	00H, 7FH (0:released, 127:pressed)
5	4FH (79) (*5)	00H, 7FH (0:released, 127:pressed)
6	50H (80) (*5)	00H, 7FH (0:released, 127:pressed)
7	51H (81) (*5)	00H, 7FH (0:released, 127:pressed)
8	52H (82) (*5)	00H, 7FH (0:released, 127:pressed)
9	53H (83) (*5)	00H, 7FH (0:released, 127:pressed)
PAUSE	54H (84)	00H, 7FH (0:released, 127:pressed)
REW	55H (85)	00H, 7FH (0:released, 127:pressed)
FF	56H (86)	00H, 7FH (0:released, 127:pressed)
STOP	57H (87)	00H, 7FH (0:released, 127:pressed)
PLAY	58H (88)	00H, 7FH (0:released, 127:pressed)
REC	59H (89)	00H, 7FH (0:released, 127:pressed)

FADER 1 Touch	5AH (90)	00H, 7FH (0:released,127:pressed)
FADER 2 Touch	5BH (91)	00H, 7FH (0:released,127:pressed)
FADER 3 Touch	5CH (92)	00H, 7FH (0:released,127:pressed)
FADER 4 Touch	5DH (93)	00H, 7FH (0:released,127:pressed)
FADER 5 Touch	5EH (94)	00H, 7FH (0:released,127:pressed)
FADER 6 Touch	5FH (95)	00H, 7FH (0:released,127:pressed)
FADER 7 Touch	60H (96)	00H, 7FH (0:released,127:pressed)
FADER 8 Touch	61H (97)	00H, 7FH (0:released,127:pressed)
FADER 9 Touch	62H (98)	00H, 7FH (0:released,127:pressed)
FADER 10 Touch	63H (99)	00H, 7FH (0:released,127:pressed)
FADER 11 Touch	64H (100)	00H, 7FH (0:released,127:pressed)
FADER 12 Touch	65H (101)	00H, 7FH (0:released,127:pressed)
FADER MASTER Touch	66H (102)	00H, 7FH (0:released,127:pressed)

(\*4) Transmits this only in case the DIGITAL IN is correctly input.

(\*5) Unit does not transmit this when [SYSTEM] is lit.

◆ Receiving message

Controls fader movement and On/Off of LED.

Knobs or Dials	Controller No.	Controller Value
FADER 1	00H (0)	00H - 7FH (0:bottom-127:top)
FADER 2	01H (1)	00H - 7FH (0:bottom-127:top)
FADER 3	02H (2)	00H - 7FH (0:bottom-127:top)
FADER 4	03H (3)	00H - 7FH (0:bottom-127:top)
FADER 5	04H (4)	00H - 7FH (0:bottom-127:top)
FADER 6	05H (5)	00H - 7FH (0:bottom-127:top)
FADER 7	06H (6)	00H - 7FH (0:bottom-127:top)
FADER 8	07H (7)	00H - 7FH (0:bottom-127:top)
FADER 9	08H (8)	00H - 7FH (0:bottom-127:top)
FADER 10	09H (9)	00H - 7FH (0:bottom-127:top)
FADER 11	0AH (10)	00H - 7FH (0:bottom-127:top)
FADER 12	0BH (11)	00H - 7FH (0:bottom-127:top)
FADER MASTER	0CH (12)	00H - 7FH (0:bottom-127:top)
STATUS 1	10H (16)	00H - 03H (0:off, 1:green, 2:red, 3:orange)
STATUS 2	11H (17)	00H - 03H (0:off, 1:green, 2:red, 3:orange)
STATUS 3	12H (18)	00H - 03H (0:off, 1:green, 2:red, 3:orange)
STATUS 4	13H (19)	00H - 03H (0:off, 1:green, 2:red, 3:orange)
STATUS 5	14H (20)	00H - 03H (0:off, 1:green, 2:red, 3:orange)
STATUS 6	15H (21)	00H - 03H (0:off, 1:green, 2:red, 3:orange)
STATUS 7	16H (22)	00H - 03H (0:off, 1:green, 2:red, 3:orange)
STATUS 8	17H (23)	00H - 03H (0:off, 1:green, 2:red, 3:orange)
STATUS 9	18H (24)	00H - 03H (0:off, 1:green, 2:red, 3:orange)
STATUS 10	19H (25)	00H - 03H (0:off, 1:green, 2:red, 3:orange)
STATUS 11	1AH (26)	00H - 03H (0:off, 1:green, 2:red, 3:orange)
STATUS 12	1BH (27)	00H - 03H (0:off, 1:green, 2:red, 3:orange)
CH SELECT 1	1CH (28)	00H, 02H (0:off, 2:red)
CH SELECT 2	1DH (29)	00H, 02H (0:off, 2:red)
CH SELECT 3	1EH (30)	00H, 02H (0:off, 2:red)
CH SELECT 4	1FH (31)	00H, 02H (0:off, 2:red)
CH SELECT 5	20H (32)	00H, 02H (0:off, 2:red)
CH SELECT 6	21H (33)	00H, 02H (0:off, 2:red)
CH SELECT 7	22H (34)	00H, 02H (0:off, 2:red)
CH SELECT 8	23H (35)	00H, 02H (0:off, 2:red)
CH SELECT 9	24H (36)	00H, 02H (0:off, 2:red)
CH SELECT 10	25H (37)	00H, 02H (0:off, 2:red)
CH SELECT 11	26H (38)	00H, 02H (0:off, 2:red)
CH SELECT 12	27H (39)	00H, 02H (0:off, 2:red)
EQ 1	34H (52)	00H, 02H (0:off, 2:red)
EQ 2	35H (53)	00H, 02H (0:off, 2:red)
EQ 3	36H (54)	00H, 02H (0:off, 2:red)
EQ 4	37H (55)	00H, 02H (0:off, 2:red)
PLUG-IN	38H (56)	00H, 02H (0:off, 2:red)
EQ/SEND	39H (57)	00H, 02H (0:off, 2:red)
SHIFT	3AH (58)	00H, 02H (0:off, 2:red)
AUTOMIX	3BH (59)	00H - 03H (0:off, 1:green, 2:red, 3:orange)
REC/PLAY	3CH (60)	00H, 02H (0:off, 2:red)
SOLO	3DH (61)	00H, 02H (0:off, 2:red)
MUTE	3EH (62)	00H, 02H (0:off, 2:red)
INPUT	3FH (63)	00H, 02H (0:off, 2:red)
OUTPUT	40H (64)	00H, 02H (0:off, 2:red)
BUS	41H (65)	00H, 02H (0:off, 2:red)
Tr1-12	42H (66)	00H, 02H (0:off, 2:red)
Tr13-24	43H (67)	00H, 02H (0:off, 2:red)
SURROUND ON	45H (69)	00H, 02H (0:off, 2:red)
MARKER	47H (71)	00H, 02H (0:off, 2:red)
SHORTCUT	48H (72)	00H, 02H (0:off, 2:red)
SCREEN SET	49H (73)	00H, 02H (0:off, 2:red)
0	4AH (74) (*6)	00H, 02H (0:off, 2:red)
1	4BH (75) (*6)	00H, 02H (0:off, 2:red)
2	4CH (76) (*6)	00H, 02H (0:off, 2:red)
3	4DH (77) (*6)	00H, 02H (0:off, 2:red)
4	4EH (78) (*6)	00H, 02H (0:off, 2:red)
5	4FH (79) (*6)	00H, 02H (0:off, 2:red)
6	50H (80) (*6)	00H, 02H (0:off, 2:red)
7	51H (81) (*6)	00H, 02H (0:off, 2:red)
8	52H (82) (*6)	00H, 02H (0:off, 2:red)
9	53H (83) (*6)	00H, 02H (0:off, 2:red)
PLAY	58H (88)	00H, 02H (0:off, 2:green)
REC	59H (89)	00H, 02H (0:off, 2:red)

(\*6) Unit does not receive this when [SYSTEM] is lit.

# Roland SI-24 MIDI Implementation

## ○ H Mode (\*7)

### ◆ Transmitting message

This unit transmits message when value of fader, switch status or encoder position changes.

Knobs or Dials	Controller No.	Controller Value
FADER 1	00H ( 0) 20H (32)	00H - 7FH (0:bottom-127:top) 00H (0)
FADER 2	01H ( 1) 21H (32)	00H - 7FH (0:bottom-127:top) 00H (0)
FADER 3	02H ( 2) 22H (32)	00H - 7FH (0:bottom-127:top) 00H (0)
FADER 4	03H ( 3) 23H (32)	00H - 7FH (0:bottom-127:top) 00H (0)
FADER 5	04H ( 4) 24H (32)	00H - 7FH (0:bottom-127:top) 00H (0)
FADER 6	05H ( 5) 25H (32)	00H - 7FH (0:bottom-127:top) 00H (0)
FADER 7	06H ( 6) 26H (32)	00H - 7FH (0:bottom-127:top) 00H (0)
FADER 8	07H ( 7) 27H (32)	00H - 7FH (0:bottom-127:top) 00H (0)
Jog wheel	0FH (15) 2FH (47)	0EH 41H, 42H (65:Counter Clock Wise, 66:Clock wise)
STATUS 1	0FH (16) 2FH (47)	01H, 02H (01:Counter Clock Wise, 02:Clock wise)
STATUS 2	0FH (16) 2FH (47)	00H, 18H (0,24) 00H - 05H, 07H, 40H - 45H, 47H (0-5,7:released, 64-69,71:pressed)
STATUS 3	0FH (16) 2FH (47)	01H, 18H (1,24) 00H - 05H, 07H, 40H - 45H, 47H (0-5,7:released, 64-69,71:pressed)
STATUS 4	0FH (16) 2FH (47)	02H, 18H (2,24) 00H - 05H, 07H, 40H - 45H, 47H (0-5,7:released, 64-69,71:pressed)
STATUS 5	0FH (16) 2FH (47)	03H, 18H (3,24) 00H - 05H, 07H, 40H - 45H, 47H (0-5,7:released, 64-69,71:pressed)
STATUS 6	0FH (16) 2FH (47)	04H, 18H (4,24) 00H - 05H, 07H, 40H - 45H, 47H (0-5,7:released, 64-69,71:pressed)
STATUS 7	0FH (16) 2FH (47)	05H, 18H (5,24) 00H - 05H, 07H, 40H - 45H, 47H (0-5,7:released, 64-69,71:pressed)
STATUS 8	0FH (16) 2FH (47)	06H, 18H (6,24) 00H - 05H, 07H, 40H - 45H, 47H (0-5,7:released, 64-69,71:pressed)
STATUS 11	4CH (26)	07H, 18H (7,24) 00H - 05H, 07H, 40H - 45H, 47H (0-5,7:released, 64-69,71:pressed)
STATUS 12	4CH (27)	0FH (0) 4FH (79)
CH SELECT 1	0FH (15) 2FH (47)	00H (0) 01H, 06H, 41H, 46H (1,6:released, 49,54:pressed)
CH SELECT 2	0FH (15) 2FH (47)	01H (1) 01H, 06H, 41H, 46H (1,6:released, 49,54:pressed)
CH SELECT 3	0FH (15) 2FH (47)	02H (2) 01H, 06H, 41H, 46H (1,6:released, 49,54:pressed)
CH SELECT 4	0FH (15) 2FH (47)	03H (3) 01H, 06H, 41H, 46H (1,6:released, 49,54:pressed)
CH SELECT 5	0FH (15) 2FH (47)	04H (4) 01H, 06H, 41H, 46H (1,6:released, 49,54:pressed)
CH SELECT 6	0FH (15) 2FH (47)	05H (5) 01H, 06H, 41H, 46H (1,6:released, 49,54:pressed)
CH SELECT 7	0FH (15) 2FH (47)	06H (6) 01H, 06H, 41H, 46H (1,6:released, 49,54:pressed)
CH SELECT 8	0FH (15) 2FH (47)	07H (7) 01H, 06H, 41H, 46H (1,6:released, 49,54:pressed)
CH SELECT 9	0FH (15) 2FH (47)	1CH (28) 00H, 02H, 40H, 42H (0,2:released, 64,66:pressed)
CH SELECT 10	0FH (15) 2FH (47)	1CH (28) 00H, 03H, 40H, 43H (0,3:released, 64,67:pressed)
CH SELECT 11	0FH (15) 2FH (47)	1CH (28) 00H, 04H, 40H, 44H (0,4:released, 64,68:pressed)
CH SELECT 12	0FH (15) 2FH (47)	1CH (28) 00H, 05H, 40H, 45H (0,5:released, 64,69:pressed)
PAN 1	0FH (15) 2FH (47)	0BH (11) 02H, 42H (2, 66)
PAN 2	40H (64) 0FH (15) 2FH (47)	01H, 41H (1:Counter Clock Wise, 65:Clock wise) 0BH (11) 02H, 42H (2, 66)
PAN 3	41H (65) 0FH (15) 2FH (47)	01H, 41H (1:Counter Clock Wise, 65:Clock wise) 0BH (11) 02H, 42H (2, 66)
PAN 4	42H (66) 0FH (15) 2FH (47)	01H, 41H (1:Counter Clock Wise, 65:Clock wise) 0BH (11) 02H, 42H (2, 66)
PAN 5	43H (67) 0FH (15) 2FH (47)	01H, 41H (1:Counter Clock Wise, 65:Clock wise) 0BH (11) 02H, 42H (2, 66)
PAN 6	44H (68) 0FH (15) 2FH (47)	01H, 41H (1:Counter Clock Wise, 65:Clock wise) 0BH (11) 02H, 42H (2, 66)
PAN 7	45H (69) 0FH (15) 2FH (47)	01H, 41H (1:Counter Clock Wise, 65:Clock wise) 0BH (11) 02H, 42H (2, 66)
PAN 8	46H (70) 0FH (15) 2FH (47)	01H, 41H (1:Counter Clock Wise, 65:Clock wise) 0BH (11) 02H, 42H (2, 66)
PAN 9	47H (71) 0FH (15) 2FH (47)	01H, 41H (1:Counter Clock Wise, 65:Clock wise) 1CH (28) 00H, 40H (0,64)
PAN 10	40H - 4BH (64-75) 0FH (15) 2FH (47)	01H, 41H (1:1:Counter Clock Wise, 65:Clock wise) 1CH (28) 00H, 40H (0,64)
PAN 11	40H - 4BH (64-75) 0FH (15) 2FH (47)	01H, 41H (1:1:Counter Clock Wise, 65:Clock wise) 1CH (28) 00H, 40H (0,64)
PAN 12	40H - 4BH (64-75) 0FH (15) 2FH (47)	01H, 41H (1:1:Counter Clock Wise, 65:Clock wise) 1CH (28) 00H, 40H (0,64)
EQ 1	40H - 4BH (64-75) 0FH (16) 2FH (47)	01H, 41H (1:Counter Clock Wise, 65:Clock wise) 1CH (28) 00H, 02H, 40H, 42H (0,2:released, 64,66:pressed)
EQ 2	0FH (16) 2FH (47)	1CH (28) 00H, 03H, 40H, 43H (0,3:released, 64,67:pressed)
EQ 3	0FH (16) 2FH (47)	1CH (28) 00H, 04H, 40H, 44H (0,4:released, 64,68:pressed)
EQ 4	0FH (16) 2FH (47)	1CH (28) 00H, 05H, 40H, 45H (0,5:released, 64,69:pressed)
PLUG-IN	0FH (56) 2FH (47)	00H, 09H (0,9) 05H, 06H, 45H, 46H (5,6:released, 69,70:pressed)
SHIFT	0FH (15) 2FH (33)	08H (8) 01H, 41H (1:released, 65:pressed)

OUTPUT	0FH (15)	0AH (10)
	2FH (33)	02H, 42H (2:released, 66:pressed)
BUS	0FH (15)	0AH (10)
	2FH (33)	00H, 40H (0:released, 64:pressed)
Tr1-12	0FH (15)	0AH (10)
	2FH (33)	03H, 43H (3:released, 51:pressed)
Tr13-24	0FH (15)	0AH (10)
	2FH (33)	01H, 41H (1:released, 65:pressed)
MARKER	0FH (15)	09H (9)
	2FH (33)	03H, 43H (3:released, 67:pressed)
0	0FH (15)	14H (20)
	2FH (47)	00H, 40H (0:released, 64:pressed)
1 (*8)	0FH (15)	08H, 09H, 13H (8,9,19)
	2FH (47)	00H, 01H, 05H, 07H, 40H, 41H, 45H, 47H (0,1,5,7,64,65,71)
2 (*8)	0FH (15)	08H, 09H, 13H (8,9,19)
	2FH (47)	01H, 03H, 05H, 41H, 43H, 45H (1,3,5,65,67,69)
3 (*8)	0FH (15)	09H, 13H, 1AH (9,19,26)
	2FH (47)	02H, 04H - 06H, 42H, 44H - 46H (2,4-6,66,68-70)
4 (*8)	0FH (15)	09H, 13H, 1AH (9,19,26)
	2FH (47)	00H, 02H, 03H, 05H, 40H, 42H, 43H, 45H (0,2,3,5,64,66,67,69)
5 (*8)	0FH (15)	09H, 13H, 1AH (9,19,26)
	2FH (47)	03H - 05H, 43H - 45H (0-5,67-69)
6 (*8)	0FH (15)	09H, 13H, 19H (9,19,25)
	2FH (47)	03H, 05H, 07H, 43H, 45H, 47H (3,5,7,67,69,71)
7 (*8)	0FH (15)	13H, 15H, 19H (19,21,25)
	2FH (47)	00H, 04H, 05H, 40H, 44H,45H (0,4,5,64,68,69)
8 (*8)	0FH (15)	08H, 13H, 15H (8,19,21)
	2FH (47)	01H, 04H, 05H, 41H, 44H, 45H (1,4,5,65,68,69)
9 (*8)	0FH (15)	13H, 15H, 1BH (19,21,27)
	2FH (47)	02H, 05H, 07H, 42H, 45H, 47H (2,5,7,66,69,71)
PAUSE	0FH (15)	0FH (15)
	2FH (47)	00H, 40H (0:released,64:pressed)
REW	0FH (15)	0EH (14)
	2FH (47)	01H, 41H (1:released,65:pressed)
FF	0FH (15)	0EH (14)
	2FH (47)	02H, 42H (2:released,66:pressed)
STOP	0FH (15)	0EH (14)
	2FH (47)	03H, 43H (3:released,67:pressed)
PLAY	0FH (15)	0EH (14)
	2FH (47)	04H, 44H (4:released,68:pressed)
REC	0FH (15)	0EH (14)
	2FH (47)	05H, 45H (5:released,69:pressed)
FADER 1 Touch	0FH (15)	00H (0)
	2FH (47)	00H, 40H (0:released,64:pressed)
FADER 2 Touch	0FH (15)	01H (1)
	2FH (47)	00H, 40H (0:released,64:pressed)
FADER 3 Touch	0FH (15)	02H (2)
	2FH (47)	00H, 40H (0:released,64:pressed)
FADER 4 Touch	0FH (15)	03H (3)
	2FH (47)	00H, 40H (0:released,64:pressed)
FADER 5 Touch	0FH (15)	04H (4)
	2FH (47)	00H, 40H (0:released,64:pressed)
FADER 6 Touch	0FH (15)	05H (5)
	2FH (47)	00H, 40H (0:released,64:pressed)
FADER 7 Touch	0FH (15)	06H (6)
	2FH (47)	00H, 40H (0:released,64:pressed)
FADER 8 Touch	0FH (15)	07H (7)
	2FH (47)	00H, 40H (0:released,64:pressed)

↳ Receiving message

Controls fader movement and On/Off of LED.

Knobs or Dials	Controller No.	Controller Value
FADER 1	00H (0)	00H - 7FH (0:bottom-127:top)
	20H (32)	00H (0)
FADER 2	01H (1)	00H - 7FH (0:bottom-127:top)
	21H (32)	00H (0)
FADER 3	02H (2)	00H - 7FH (0:bottom-127:top)
	22H (32)	00H (0)
FADER 4	03H (3)	00H - 7FH (0:bottom-127:top)
	23H (32)	00H (0)
FADER 5	04H (4)	00H - 7FH (0:bottom-127:top)
	24H (32)	00H (0)
FADER 6	05H (5)	00H - 7FH (0:bottom-127:top)
	25H (32)	00H (0)
FADER 7	06H (6)	00H - 7FH (0:bottom-127:top)
	26H (32)	00H (0)
FADER 8	07H (7)	00H - 7FH (0:bottom-127:top)
	27H (32)	00H (0)
STATUS 1	0CH (12)	00H (0)
	2CH (44)	02H - 04H, 07H, 24H, 42H - 44H, 47H (2-4:Off, 7,36:green, 66-68,71:red)
STATUS 2	0CH (12)	01H (1)
	2CH (44)	02H - 04H, 07H, 24H, 42H - 44H, 47H (2-4:Off, 7,36:green, 66-68,71:red)
STATUS 3	0CH (12)	02H (2)
	2CH (44)	02H - 04H, 07H, 24H, 42H - 44H, 47H (2-4:Off, 7,36:green, 66-68,71:red)
STATUS 4	0CH (12)	03H (3)
	2CH (44)	02H - 04H, 07H, 24H, 42H - 44H, 47H (2-4:Off, 7,36:green, 66-68,71:red)
STATUS 5	0CH (12)	04H (4)
	2CH (44)	02H - 04H, 07H, 24H, 42H - 44H, 47H (2-4:Off, 7,36:green, 66-68,71:red)
STATUS 6	0CH (12)	05H (5)
	2CH (44)	02H - 04H, 07H, 24H, 42H - 44H, 47H (2-4:Off, 7,36:green, 66-68,71:red)
STATUS 7	0CH (12)	06H (6)
	2CH (44)	02H - 04H, 07H, 24H, 42H - 44H, 47H (2-4:Off, 7,36:green, 66-68,71:red)
STATUS 8	0CH (12)	07H (7)
	2CH (44)	02H - 04H, 07H, 24H, 42H - 44H, 47H (2-4:Off, 7,36:green, 66-68,71:red)
CH SELECT 1	0CH (28)	00H (0)
	2CH (44)	01H, 41H (0:off, 65:red)
CH SELECT 2	0CH (28)	01H (1)
	2CH (44)	01H, 41H (0:off, 65:red)
CH SELECT 3	0CH (28)	02H (2)
	2CH (44)	01H, 41H (0:off, 65:red)
CH SELECT 4	0CH (28)	03H (3)
	2CH (44)	01H, 41H (0:off, 65:red)
CH SELECT 5	0CH (28)	04H (4)
	2CH (44)	01H, 41H (0:off, 65:red)
CH SELECT 6	0CH (28)	05H (5)
	2CH (44)	01H, 41H (0:off, 65:red)
CH SELECT 7	0CH (28)	06H (6)
	2CH (44)	01H, 41H (0:off, 65:red)
CH SELECT 8	0CH (28)	07H (7)
	2CH (44)	01H, 41H (0:off, 65:red)
CH SELECT 9	0CH (28)	1CH (28)
	2CH (44)	02H, 42H (2:off, 66:red)

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CH SELECT 10	0CH (28)	1CH (28)
	2CH (44)	03H, 43H (2:off, 67:red)
CH SELECT 11	0CH (28)	1CH (28)
	2CH (44)	04H, 44H (4:off, 68:red)
CH SELECT 12	0CH (28)	1CH (28)
	2CH (44)	05H, 45H (5:off, 69:red)
SHIFT	0CH (28)	08H (8)
	2CH (44)	01H, 41H (1:off, 65:orange)
1 (*8)	0CH (28)	08H, 09H (8,9)
	2CH (44)	00H, 07H, 40H, 47H (0,7:off, 64,71:red)
2 (*8)	0CH (28)	08H, 09H (8,9)
	2CH (44)	01H, 03H, 41H, 43H (1,3:off, 65,67:red)
3 (*8)	0CH (28)	09H, 1AH (9,26)
	2CH (44)	02H, 04H, 42H, 44H (2,4:off, 66,68:red)
4 (*8)	0CH (28)	09H, 1AH (9,26)
	2CH (44)	00H, 03H, 40H, 43H (0,3:off, 64,67:red)
5 (*8)	0CH (28)	09H, 1AH (9,26)
	2CH (44)	03H, 04H, 43H, 44H (3,4:off, 67,68:red)
6 (*8)	0CH (28)	09H, 19H (9,25)
	2CH (44)	03H, 05H, 43H, 45H (3,5:off, 67,69:red)
7 (*8)	0CH (28)	19H (25)
	2CH (44)	04H, 44H (4:off, 68:red)
8 (*8)	0CH (28)	08H (8)
	2CH (44)	04H, 44H (4:off, 68:red)
PLAY	0CH (28)	0EH (14)
	2CH (44)	04H, 44H (4:off, 68:green)
REC	0CH (28)	0EH (14)
	2CH (44)	05H, 45H (5:off, 69:red)

(\*7) Unit transmits and receives multiple messages corresponding to single operation.

(\*8) Unit does not send or receive this when [SYSTEM] is lit.

## ○ S.C Mode

### ◆ Transmitting message

This unit transmits message when value of fader, switch status or encoder position changes.

Knobs or Dials	Controller No.	Controller Value
FADER 1	00H ( 0)	00H - 7FH (0:bottom-127:top)
FADER 2	01H ( 1)	00H - 7FH (0:bottom-127:top)
FADER 3	02H ( 2)	00H - 7FH (0:bottom-127:top)
FADER 4	03H ( 3)	00H - 7FH (0:bottom-127:top)
FADER 5	04H ( 4)	00H - 7FH (0:bottom-127:top)
FADER 6	05H ( 5)	00H - 7FH (0:bottom-127:top)
FADER 7	06H ( 6)	00H - 7FH (0:bottom-127:top)
FADER 8	07H ( 7)	00H - 7FH (0:bottom-127:top)
FADER 9	08H ( 8)	00H - 7FH (0:bottom-127:top)
FADER 10	09H ( 9)	00H - 7FH (0:bottom-127:top)
FADER 11	0AH (10)	00H - 7FH (0:bottom-127:top)
FADER 12	0BH (11)	00H - 7FH (0:bottom-127:top)
FADER MASTER	0CH (12)	00H - 7FH (0:bottom-127:top)
Joy Stick X	0DH (13)	00H - 7FH (0:left-127:right)
Joy Stick Y	1DH (29)	00H - 7FH (0:bottom-127:top)
Jog wheel	0FH (15)	01H - 3FH, 7FH - 41H (1-63:Clock wise, 127-65:Counter Clock Wise)
STATUS 1	20H, 30H, 40H, 50H (32, 48, 64, 80) (*9)	00H, 7FH (0:released, 127:pressed)
STATUS 2	21H, 31H, 41H, 51H (33, 49, 65, 81) (*9)	00H, 7FH (0:released, 127:pressed)
STATUS 3	22H, 32H, 42H, 52H (34, 50, 66, 82) (*9)	00H, 7FH (0:released, 127:pressed)
STATUS 4	23H, 33H, 43H, 53H (35, 51, 67, 83) (*9)	00H, 7FH (0:released, 127:pressed)
STATUS 5	24H, 34H, 44H, 54H (36, 52, 68, 84) (*9)	00H, 7FH (0:released, 127:pressed)
STATUS 6	25H, 35H, 45H, 55H (37, 53, 69, 85) (*9)	00H, 7FH (0:released, 127:pressed)
STATUS 7	26H, 36H, 46H, 56H (38, 54, 70, 86) (*9)	00H, 7FH (0:released, 127:pressed)
STATUS 8	27H, 37H, 47H, 57H (39, 55, 71, 87) (*9)	00H, 7FH (0:released, 127:pressed)
STATUS 9	28H, 38H, 48H, 58H (40, 56, 72, 88) (*9)	00H, 7FH (0:released, 127:pressed)
STATUS 10	29H, 39H, 49H, 59H (41, 57, 73, 89) (*9)	00H, 7FH (0:released, 127:pressed)
STATUS 11	2AH, 3AH, 4AH, 5AH (42, 58, 74, 90) (*9)	00H, 7FH (0:released, 127:pressed)
STATUS 12	2BH, 3BH, 4BH, 5BH (43, 59, 75, 81) (*9)	00H, 7FH (0:released, 127:pressed)
CH SELECT 1	60H (96)	00H, 7FH (0:released, 127:pressed)
CH SELECT 2	61H (97)	00H, 7FH (0:released, 127:pressed)
CH SELECT 3	62H (98)	00H, 7FH (0:released, 127:pressed)
CH SELECT 4	63H (99)	00H, 7FH (0:released, 127:pressed)
CH SELECT 5	64H (100)	00H, 7FH (0:released, 127:pressed)
CH SELECT 6	65H (101)	00H, 7FH (0:released, 127:pressed)
CH SELECT 7	66H (102)	00H, 7FH (0:released, 127:pressed)
CH SELECT 8	67H (103)	00H, 7FH (0:released, 127:pressed)
CH SELECT 9	68H (104)	00H, 7FH (0:released, 127:pressed)
CH SELECT 10	69H (105)	00H, 7FH (0:released, 127:pressed)
CH SELECT 11	6AH (106)	00H, 7FH (0:released, 127:pressed)
CH SELECT 12	6BH (107)	00H, 7FH (0:released, 127:pressed)
PAN 1	70H (102)	01H - 3FH, 7FH - 41H (1-63:Clock wise, 127-65:Counter Clock Wise)
PAN 2	71H (103)	01H - 3FH, 7FH - 41H (1-63:Clock wise, 127-65:Counter Clock Wise)
PAN 3	72H (104)	01H - 3FH, 7FH - 41H (1-63:Clock wise, 127-65:Counter Clock Wise)
PAN 4	73H (105)	01H - 3FH, 7FH - 41H (1-63:Clock wise, 127-65:Counter Clock Wise)
PAN 5	74H (106)	01H - 3FH, 7FH - 41H (1-63:Clock wise, 127-65:Counter Clock Wise)
PAN 6	75H (107)	01H - 3FH, 7FH - 41H (1-63:Clock wise, 127-65:Counter Clock Wise)
PAN 7	76H (108)	01H - 3FH, 7FH - 41H (1-63:Clock wise, 127-65:Counter Clock Wise)
PAN 8	77H (109)	01H - 3FH, 7FH - 41H (1-63:Clock wise, 127-65:Counter Clock Wise)
PAN 9	78H (110)	01H - 3FH, 7FH - 41H (1-63:Clock wise, 127-65:Counter Clock Wise)
PAN 10	79H (111)	01H - 3FH, 7FH - 41H (1-63:Clock wise, 127-65:Counter Clock Wise)
PAN 11	7AH (112)	01H - 3FH, 7FH - 41H (1-63:Clock wise, 127-65:Counter Clock Wise)
PAN 12	7BH (113)	01H - 3FH, 7FH - 41H (1-63:Clock wise, 127-65:Counter Clock Wise)
SHIFT	3DH (61)	00H, 7FH (0:released,127:pressed)
INPUT	2CH (44)	00H, 7FH (0:released,127:pressed)
OUTPUT	3CH (60)	00H, 7FH (0:released,127:pressed)
BUS	4CH (76)	00H, 7FH (0:released,127:pressed)
Tr1-12	5CH (92)	00H, 7FH (0:released,127:pressed)
Tr13-24	6CH (108)	00H, 7FH (0:released,127:pressed)
DIGITALIN	7CH (114) (*10)	00H, 7FH (0:released,127:pressed)
SURROUND ON	2DH (45)	00H, 7FH (0:released,127:pressed)
PAUSE	0EH (14)	00H, 7FH (0:released,127:pressed)
REW	1EH (30)	00H, 7FH (0:released,127:pressed)
FF	2EH (46)	00H, 7FH (0:released,127:pressed)
STOP	3EH (62)	00H, 7FH (0:released,127:pressed)
PLAY	4EH (78)	00H, 7FH (0:released,127:pressed)
REC	5EH (94)	00H, 7FH (0:released,127:pressed)
FADER 1 Touch	10H (16)	00H, 7FH (0:released,127:pressed)
FADER 2 Touch	11H (17)	00H, 7FH (0:released,127:pressed)
FADER 3 Touch	12H (18)	00H, 7FH (0:released,127:pressed)
FADER 4 Touch	13H (19)	00H, 7FH (0:released,127:pressed)
FADER 5 Touch	14H (20)	00H, 7FH (0:released,127:pressed)
FADER 6 Touch	15H (21)	00H, 7FH (0:released,127:pressed)
FADER 7 Touch	16H (22)	00H, 7FH (0:released,127:pressed)
FADER 8 Touch	17H (23)	00H, 7FH (0:released,127:pressed)
FADER 9 Touch	18H (24)	00H, 7FH (0:released,127:pressed)

FADER 10 Touch	19H (25)	00H, 7FH (0:released,127:pressed)
FADER 11 Touch	1AH (26)	00H, 7FH (0:released,127:pressed)
FADER 12 Touch	1BH (27)	00H, 7FH (0:released,127:pressed)
FADER MASTER Touch	1CH (28)	00H, 7FH (0:released,127:pressed)

(\*9) Transmits message in order subject that [MUTE] is On, [SOLO] is On, [REC/PLAY] is On and [AUTOMIX] is On.  
 (\*10) Transmits this only in case the DIGITAL IN is correctly input.

↳ Receiving message

Controls fader movement and On/Off of LED.

Knobs or Dials	Controller No.	Controller Value
FADER 1	00H (0)	00H - 7FH (0:bottom-127;top)
FADER 2	01H (1)	00H - 7FH (0:bottom-127;top)
FADER 3	02H (2)	00H - 7FH (0:bottom-127;top)
FADER 4	03H (3)	00H - 7FH (0:bottom-127;top)
FADER 5	04H (4)	00H - 7FH (0:bottom-127;top)
FADER 6	05H (5)	00H - 7FH (0:bottom-127;top)
FADER 7	06H (6)	00H - 7FH (0:bottom-127;top)
FADER 8	07H (7)	00H - 7FH (0:bottom-127;top)
FADER 9	08H (8)	00H - 7FH (0:bottom-127;top)
FADER 10	09H (9)	00H - 7FH (0:bottom-127;top)
FADER 11	0AH (10)	00H - 7FH (0:bottom-127;top)
FADER 12	0BH (11)	00H - 7FH (0:bottom-127;top)
FADER MASTER	0CH (12)	00H - 7FH (0:bottom-127;top)
STATUS 1	20H, 30H, 40H, 50H (32,48,64,80) (*11)	00H - 03H (0:off, 1:green, 2:red, 3:orange)
STATUS 2	21H, 31H, 41H, 51H (33,49,65,81) (*11)	00H - 03H (0:off, 1:green, 2:red, 3:orange)
STATUS 3	22H, 32H, 42H, 52H (34,50,66,82) (*11)	00H - 03H (0:off, 1:green, 2:red, 3:orange)
STATUS 4	23H, 33H, 43H, 53H (35,51,67,83) (*11)	00H - 03H (0:off, 1:green, 2:red, 3:orange)
STATUS 5	24H, 34H, 44H, 54H (36,52,68,84) (*11)	00H - 03H (0:off, 1:green, 2:red, 3:orange)
STATUS 6	25H, 35H, 45H, 55H (37,53,69,85) (*11)	00H - 03H (0:off, 1:green, 2:red, 3:orange)
STATUS 7	26H, 36H, 46H, 56H (38,54,70,86) (*11)	00H - 03H (0:off, 1:green, 2:red, 3:orange)
STATUS 8	27H, 37H, 47H, 57H (39,55,71,87) (*11)	00H - 03H (0:off, 1:green, 2:red, 3:orange)
STATUS 9	28H, 38H, 48H, 58H (40,56,72,88) (*11)	00H - 03H (0:off, 1:green, 2:red, 3:orange)
STATUS 10	29H, 39H, 49H, 59H (41,57,73,89) (*11)	00H - 03H (0:off, 1:green, 2:red, 3:orange)
STATUS 11	2AH, 3AH, 4AH, 5AH (42,58,74,90) (*11)	00H - 03H (0:off, 1:green, 2:red, 3:orange)
STATUS 12	2BH, 3BH, 4BH, 5BH (43,59,75,91) (*11)	00H - 03H (0:off, 1:green, 2:red, 3:orange)
CH SELECT 1	60H (96)	00H, 02H (0:off, 2:red)
CH SELECT 2	61H (97)	00H, 02H (0:off, 2:red)
CH SELECT 3	62H (98)	00H, 02H (0:off, 2:red)
CH SELECT 4	63H (99)	00H, 02H (0:off, 2:red)
CH SELECT 5	64H (100)	00H, 02H (0:off, 2:red)
CH SELECT 6	65H (101)	00H, 02H (0:off, 2:red)
CH SELECT 7	66H (102)	00H, 02H (0:off, 2:red)
CH SELECT 8	67H (103)	00H, 02H (0:off, 2:red)
CH SELECT 9	68H (104)	00H, 02H (0:off, 2:red)
CH SELECT 10	69H (105)	00H, 02H (0:off, 2:red)
CH SELECT 11	6AH (106)	00H, 02H (0:off, 2:red)
CH SELECT 12	6BH (107)	00H, 02H (0:off, 2:red)
SHIFT	3DH (61)	00H, 02H (0:off, 2:red)
INPUT	2CH (63)	00H, 02H (0:off, 2:red)
OUTPUT	3CH (64)	00H, 02H (0:off, 2:red)
BUS	4CH (65)	00H, 02H (0:off, 2:red)
Tr1-12	5CH (66)	00H, 02H (0:off, 2:red)
Tr13-24	6CH (67)	00H, 02H (0:off, 2:red)
SURROUND ON	2DH (69)	00H, 02H (0:off, 2:red)
PLAY	4EH (78)	00H, 02H (0:off, 2:green)
REC	5EH (94)	00H, 02H (0:off, 2:red)

(\*11) Receives message in order subject that [MUTE] is On, [SOLO] is On, [REC/PLAY] is On and [AUTOMIX] is On.

## ■ System Exclusive Message

### ● Universal System Exclusive message

#### ○ INQUIRY MESSAGE

##### ↳ Identity Request

Status	Data Byte	Status
F0H	7EH, Dev, 06H, 01H	F7H

Byte	Description
F0H	Status of System Exclusive Message
7EH	Universal System Exclusive message Non Real-time header
Dev	Device ID (= 00H) (or 7FH)
06H	General Information (sub-ID #1)
01H	Identify Request (sub-ID #2)
F7H	EOX (End of System Exclusive Message)

The message is used to request the particular information of the SI-24.  
 The SI-24 does not transmit the message.  
 If the SI-24 received the message and the device ID of the message is same as its device.  
 ID(= 1) or 7FH, the SI-24 transmits the following Identify Reply message.

#### ○ Identity Reply (\*12)

Status	Data Byte	Status
F0H	7EH, Dev, 06H, 02H, 41H, mmH, mmH, 00H, 00H, 00H, 00H, ssH, ssH	F7H

Byte	Description
F0H	Status of System Exclusive Message
7EH	Universal System Exclusive Non Real-time Header
Dev	Device ID (= 00H)
06H	General Information (sub-ID #1)
02H	Identify Request (sub-ID #2)
41H	Manufacturer ID (Roland)
mmH mmH	Device Family Code (57H 01H) (SI-24)
00H 00H	Device Family No.
00H	
00H	
ssH ssH	Software Revision Level
F7H	EOX (End of Exclusive Message)

(\*12) Unit transmits this when mode is L5.

## 2. Appendices

### ● Decimal and Hexadecimal table

(Hexadecimal number is shown with H.)

In MIDI documentation, data values and addresses/sizes of system exclusive messages etc. are expressed as hexadecimal values for each 7 bits.

The following table shows how these correspond to decimal numbers.

dec	hex	dec	hex	dec	hex	dec	hex
0	00H	32	20H	64	40H	96	60H
1	01H	33	21H	65	41H	97	61H
2	02H	34	22H	66	42H	98	62H
3	03H	35	23H	67	43H	99	63H
4	04H	36	24H	68	44H	100	64H
5	05H	37	25H	69	45H	101	65H
6	06H	38	26H	70	46H	102	66H
7	07H	39	27H	71	47H	103	67H
8	08H	40	28H	72	48H	104	68H
9	09H	41	29H	73	49H	105	69H
10	0AH	42	2AH	74	4AH	106	6AH
11	0BH	43	2BH	75	4BH	107	6BH
12	0CH	44	2CH	76	4CH	108	6CH
13	0DH	45	2DH	77	4DH	109	6DH
14	0EH	46	2EH	78	4EH	110	6EH
15	0FH	47	2FH	79	4FH	111	6FH
16	10H	48	30H	80	50H	112	70H
17	11H	49	31H	81	51H	113	71H
18	12H	50	32H	82	52H	114	72H
19	13H	51	33H	83	53H	115	73H
20	14H	52	34H	84	54H	116	74H
21	15H	53	35H	85	55H	117	75H
22	16H	54	36H	86	56H	118	76H
23	17H	55	37H	87	57H	119	77H
24	18H	56	38H	88	58H	120	78H
25	19H	57	39H	89	59H	121	79H
26	1AH	58	3AH	90	5AH	122	7AH
27	1BH	59	3BH	91	5BH	123	7BH
28	1CH	60	3CH	92	5CH	124	7CH
29	1DH	61	3DH	93	5DH	125	7DH
30	1EH	62	3EH	94	5EH	126	7EH
31	1FH	63	3FH	95	5FH	127	7FH

(\*1) Decimal values such as MIDI channel, bank select, and program change are listed as one(1) greater than the values given in the above table.

(\*2) A 7-bit byte can express data in the range of 128 steps. For data where greater precision is required, we must use two or more bytes. For example, two hexadecimal numbers aa bbH expression two 7-bit bytes would indicate a value of aa x 128 + bb.

(\*3) In the case of values which have a +/- sign, 40H=-64, 00H=0, 3FH=+63, so that the decimal expression would be 64 less than the value given in the above chart.

In the case of two types, 40 00H = -8192, 00 00H = 0, 3F 7FH = +8191.

(\*4) Data marked "nibbled" is expressed in hexadecimal in 4-bit units.

A value expressed as a 20byte nibble 0a 0bH has the value of a x 16 + b.

<Ex.1> What 5AH in decimal system?  
 5AH = 90 according to the above table.

<Ex.2> What in decimal system is 12034H in hexadecimal of every 7 bit?  
 12H = 18, 34H = 52 according to the above table. So 18 x 128 + 52 = 2356.

<Ex.3> What in decimal system is 0A 03 09 0D in nibble system?  
 0AH = 10, 03H = 3, 09H = 9, 0DH = 13 according to the above table.  
 So ((10 x 16 + 3) x 16 + 9) x 16 + 13 = 41885.

<Ex.4> What in nibble system is 1258 in decimal system?

16)	1258	
16)	78	... 10
16)	4	... 14
	0	... 4

0 = 00H, 4 = 04H, 14 = 0EH, 10 = 0AH according to the above table. So it is 00 04 0E 0AH.



Digital Studio Workstation

Date : Mar. 10, 2003

Model SI-24

**MIDI Implementation Chart**

Version : 1.00

Function...	Transmitted	Recognized	Remarks
Basic Channel Default Changed	1 X	1 *****	
Mode Default Messages Altered	Mode 3 X *****	Mode 3 X X	
Note Number : True Voice	O *****	X O	* 1
Velocity Note On Note Off	X X	X X	
After Touch Key's Channel's	O X	O X	* 2
Pitch Bend	X	X	
Control Change 0-113	O	O	
Program Change : True Number	X	X	
System Exclusive	O	O	* 3
System Common : Quarter Frame : Song Position : Song Select : Tune Request	X X X X	X X X X	
System Real Time : Clock : Commands	X X	X X	
Aux Messages : All Sound Off : Reset All Controllers : Local On/Off : All Notes Off : Active Sensing : System Reset	X X X X X X	X X X X X X	
Notes	* 1 H Mode Only * 2 S.C Mode Only * 3 L5 Mode Only		

Mode 1 : OMNI ON, POLY  
Mode 3 : OMNI OFF, POLYMode 2 : OMNI ON, MONO  
Mode 4 : OMNI OFF, MONOO : Yes  
X : No