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SDI INPUT CARD

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SDI-EINGANGSKARTE
CARTE D'ENTRÉE SDI
SCHEDA DI INGRESSO SDI
TARJETA DE ENTRADA SDI
SDI 输入卡

IF-C21SD1G INSTRUCTIONS

IF-C51SD1G (compatible with AUDIO LEVEL METER)

INPUT CARD FOR A JVC MONITOR

EINGANGSKARTE FÜR JVC MONITORE

CARTE D'ENTRÉE POUR MONITEURS JVC

SCHEDA DI INGRESSO PER MONITOR JVC

TARJETA DE ENTRADA PARA UN MONITOR JVC

JVC 监视器用输入卡



SDI INPUT CARD

IF-C21SD1G

INSTRUCTIONS

IF-C51SD1G (compatible with AUDIO LEVEL METER)

INPUT CARD FOR A JVC MONITOR

Thank you for purchasing this JVC Input Card. In order to take full advantage of the card's capabilities, please read and follow all instructions carefully before installing and using the card. Retain this booklet for future reference.

Precautions



Before installing this Input Card in your monitor, please read the Safety Precautions included in your monitor's user manual.

FCC NOTICE (U.S.A. only)

CAUTION: Changes or modifications not approved by JVC could void the user's authority to operate the equipment.

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

EMC Supplement (Europe only)

This equipment is in conformity with the provisions and protection requirements of the corresponding European Directives. This equipment is designed for professional video appliances and can be used in the following environments:

- Controlled EMC environment (for example purpose built broadcasting or recording studio), and rural outdoors environment (far away from railways, transmitters, overhead power lines, etc.)

These input cards are only for use with specific monitors.

Consult your dealer for the compatible monitors.

Information for Users on Disposal of Old Equipment



[European Union]

This symbol indicates that the electrical and electronic equipment should not be disposed as general household waste at its end-of-life. Instead, the product should be handed over to the applicable collection point for the recycling of electrical and electronic equipment for proper treatment, recovery and recycling in accordance with your national legislation.

Attention:

This symbol is only valid in the European Union.

By disposing of this product correctly, you will help to conserve natural resources and will help prevent potential negative effects on the environment and human health which could otherwise be caused by inappropriate waste handling of this product. For more information about collection point and recycling of this product, please contact your local municipal office, your household waste disposal service or the shop where you purchased the product.

Penalties may be applicable for incorrect disposal of this waste, in accordance with national legislation.

(Business users)

If you wish to dispose of this product, please visit our web page www.jvc-europe.com to obtain information about the take-back of the product.

[Other Countries outside the European Union]

If you wish to dispose of this product, please do so in accordance with applicable national legislation or other rules in your country for the treatment of old electrical and electronic equipment.

Setting DIP Switches

In the following cases, change the DIP switch settings before installing the input card into the monitor:

- To switch the audio input type
- When your monitor does not have the buttons or menu for EMBEDDED AUDIO channel selection
- When your monitor does not have the buttons or menu for AUDIO LEVEL METER setting (only when using IF-C51SD1G)

CAUTION

- The DIP switch setting cannot be changed after the input card is installed into the monitor's slot. Make sure to change the switch settings before installing the input card.
- Wear gloves to protect your hands from metal parts on the Input Card's board.
- Do not touch the terminals or board pattern of the Input Card to prevent them from being damaged by static electricity.

Setting DIP Switches (continued)

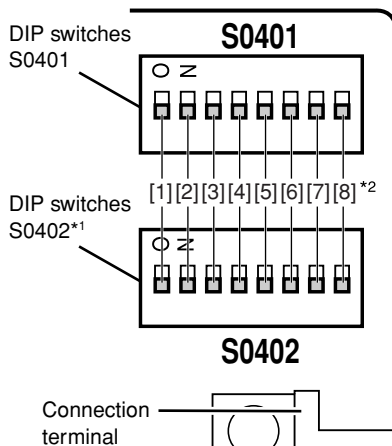
Using DIP switches

Make the settings you want by following the descriptions of each switch (① – ④).

- The diagram on the right shows all switches are set to OFF (factory setting).
- Peel off the film on the switches when changing the setting.

*1 IF-C51SD1G only

*2 Switches [7] and [8] of S0401 do not function for IF-C21SD1G.



① Selecting the audio input type

Select the analog audio input or EMBEDDED AUDIO input to be output from the monitor's speaker. This setting is valid regardless of the setting ②.

Setting	Switch No.
	S0401 [1]
Analog audio input*	ON
EMBEDDED AUDIO	OFF

* Audio signal input to the AUDIO IN terminal

- When the audio input type is set to analog audio input, no signal is output from the E.AUDIO MONITOR OUT terminal. (AUDIO LEVEL METER display is also not available.)
- In the following cases, settings ② to ④ are not required. See page 8 and install the input card to the monitor.
 - When analog audio input is selected.
 - When your monitor has the buttons or menu for EMBEDDED AUDIO channel selection.
 - When your monitor has the buttons or menu for AUDIO LEVEL METER setting.

② Activating DIP switch

Set DIP switch setting to enable or disable.

Setting	Switch No.
	S0401 [2]
Activate DIP switch	ON
Deactivate DIP switch	OFF

- When "OFF" is selected, settings ③ and ④ are not required. See page 8 and install the input card to the monitor.
- When "ON" is selected, EMBEDDED AUDIO channel selection and AUDIO LEVEL METER setting cannot be changed from the monitor.

③ EMBEDDED AUDIO channel selection

Select the audio channel output from the monitor's speaker and the E.AUDIO MONITOR OUT CH1 terminal, and the E.AUDIO MONITOR OUT CH2 terminal.

Output audio channel		Switch No.			
monitor's speaker/ CH1	CH2	S0401 [3]	S0401 [4]	S0401 [5]	S0401 [6]
Channel 1	Channel 2	OFF	OFF	OFF	OFF
Channel 2		OFF	OFF	OFF	ON
Channel 3	Channel 4	OFF	OFF	ON	OFF
Channel 4		OFF	OFF	ON	ON
Channel 5	Channel 6	ON	OFF	OFF	OFF
Channel 6		ON	OFF	OFF	ON
Channel 7	Channel 8	ON	OFF	ON	OFF
Channel 8		ON	OFF	ON	ON
Mix channels 1 and 2		OFF	ON	OFF	OFF
Mix channels 3 and 4		OFF	ON	OFF	ON
Mix channels 5 and 6		ON	ON	OFF	OFF
Mix channels 7 and 8		ON	ON	OFF	ON
Mix channels 1 to 4		OFF	ON	ON	OFF
Mix channels 5 to 8		ON	ON	ON	OFF
Mix all channels		ON	ON	ON	ON
No output		OFF	ON	ON	ON

About the audio output level

- When several audio channels are output at the same time, the more channels that are selected, the lower each channel's output level will be. (Each channel's output level becomes half for "Mix channels 1 and 2," quarter for "Mix channels 1 to 4.")
- The "Mix all channels" setting mixes and outputs all channels the signal has. The output level is automatically set according to the number of channels.

Setting DIP Switches (continued)

④ AUDIO LEVEL METER function settings (Only for IF-C51SD1G)

Set the AUDIO LEVEL METER display on/off, and its other various settings.

- **LEVEL METER ch:** Set the combination of audio channels displayed with the AUDIO LEVEL METER.

Settings	Switch No.		
	S0402 [1]	S0402 [2]	S0402 [3]
OFF	OFF	OFF	OFF
1:2	OFF	OFF	ON
12:34	OFF	ON	OFF
31:24	OFF	ON	ON
123:456	ON	OFF	OFF
1-8	ON	ON	OFF

NOTES:

- Numbers indicate the audio channel. The channel input level indicated on the left side of “:” is displayed on the left side of the screen, and the channel input level indicated on the right side of “:” is displayed on the right side of the screen.
- The AUDIO LEVEL METER display does not appear when this item is set to “OFF.”
- When “1-8” is selected, the channel input level for 1, 2, 3 and 4 is displayed on the left side of the screen, and the channel input level for 5, 6, 7 and 8 is displayed on the right side of the screen.

- **BAR TYPE:** Set the Level Meter color.

Settings	Switch No.	
	S0402 [7]	S0402 [8]
W. 100	OFF	ON
W. 50	ON	OFF
3COLORS	OFF	OFF
	ON	ON

- W. 100: White color display
- W. 50: White (half transparent) display
- 3COLORS: The AUDIO LEVEL METER display uses three different colors (red, yellow and green) to indicate variations in input levels.

Red: Displayed when the audio input is at the same level set in “OVER LEVEL” or higher.

Yellow: Displayed when the audio input is at the same level set in “REFERENCE LEVEL” or higher.

Green: Displayed when the audio input is lower than the level set in “REFERENCE LEVEL.”

NOTES:

- For “W. 100” and “W. 50,” the line indication for the standard input level set in the “REFERENCE LEVEL” is displayed. Input level set in the “OVER LEVEL” is not displayed.
- As for the audio channel bar display with no signal input, white is displayed for the “3COLORS” setting, and gray is displayed for other settings.

■ **BAR BRIGHTNESS:** Select the brightness of the AUDIO LEVEL METER display.

Settings	Switch No.
	S0401 [8]
Bright	ON
Dark	OFF

■ **REFERENCE LEVEL:** Set the reference input level.

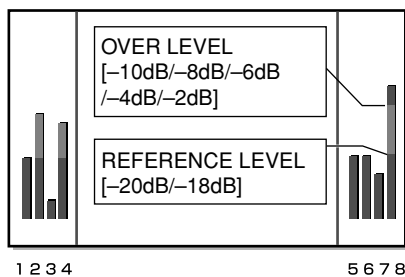
Settings	Switch No.
	S0401 [7]
-18dB	ON
-20dB	OFF

■ **OVER LEVEL:** Set the lower limit for the input signal level displayed in red with "3COLORS" setting.

Settings	Switch No.		
	S0402 [4]	S0402 [5]	S0402 [6]
-2dB	OFF	ON	ON
-4dB	OFF	OFF	OFF
-6dB	OFF	OFF	ON
-8dB	OFF	ON	OFF
-10dB	ON	OFF	OFF

AUDIO LEVEL METER display example

LEVEL METER ch: 1-8, BAR TYPE: 3COLORS



**Audio channels and OVER/
REFERENCE LEVEL indication**

Installation

■ PREPARATION

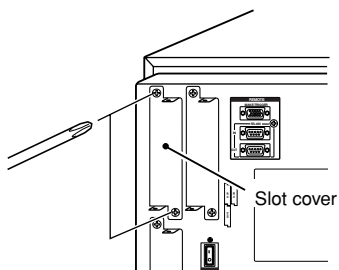
- Wear gloves to protect your hands from metal parts on the Input Card's board.
- You will need a 6 mm Phillips screwdriver.
- Turn off the monitor's main power and unplug the power cable from the AC outlet.

■ CAUTIONS

- Do not touch the terminals or board pattern of the Input Card to prevent them from being damaged by static electricity.
- Do not force the Input Card into the monitor's slot.
- Keep slot covers attached on the monitor's slots if they are not in use.

■ INSTALLATION PROCEDURE

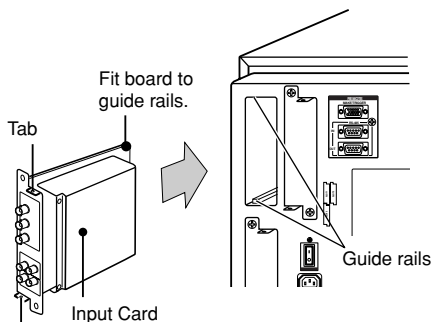
1. Unscrew the screws and remove the slot cover from the slot (on the rear side of the monitor) in which the card is to be installed.



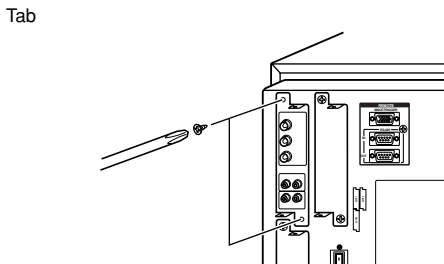
Rear side of the monitor
(DT-V1710CG)

2. Insert the Input Card into the slot, fitting the board into the guide rails at the top and bottom of the slot.

3. Push the Input Card in so that its front panel touches the rear panel of the monitor. (Hold the tabs at top and bottom while inserting the Input Card).



4. Secure the Input Card by using the screws removed in Step 1 above.



Make sure the Input Card is correctly recognized by using "SLOT CONDITION" on the MAIN MENU of the monitor. If your monitor does not have "SLOT CONDITION," use the INPUT SELECT buttons on the monitor.

- Refer also to the instruction manual of the monitor.

Controls and Features

1 E.AUDIO SDI terminals (2 lines)

Accepts an SMPTE259M SD SDI signal. Also accepts EMBEDDED AUDIO signals including up to 8 audio channels with the sampling frequency of 48 kHz.

Input selection:

For the monitor with 3 slots:

To select INPUT1: Press INPUT SELECT A (SLOT1)/C (SLOT2)/ E (SLOT3) button.

To select INPUT2: Press INPUT SELECT B (SLOT1)/D (SLOT2)/ F (SLOT3) button.

For the monitor with 1 slot:

To select INPUT1: Press INPUT SELECT C button.

To select INPUT2: Press INPUT SELECT D button.

EMBEDDED AUDIO channel selection:

The EMBEDDED AUDIO channel selection is controlled from the monitor. Refer to the instruction manual of the monitor for more information.

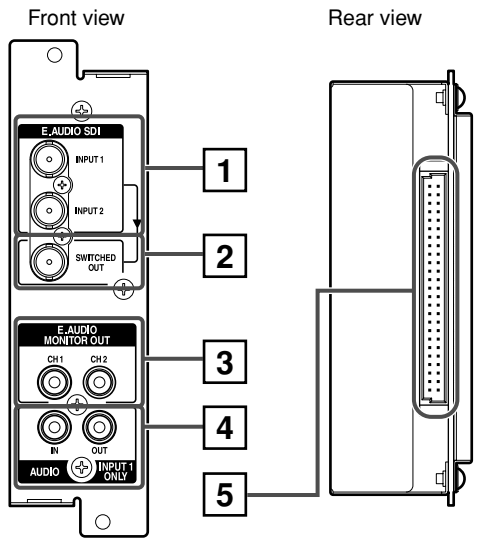
- When EMBEDDED AUDIO channel selection is not available on the monitor, use DIP switches. See pages 3 to 5.
- When the audio input type is set to analog audio input by setting DIP switch, no signal is output from the E.AUDIO MONITOR OUT terminal. (AUDIO LEVEL METER display is also not available.)

2 SWITCHED OUT terminal (1 line)

Re-clocks and outputs the input signal currently selected.

NOTES:

- Even after the input signal from another Input Card is selected for the monitor, the SWITCHED OUT terminal continues to output the re-clocked signal of the input selected last on this card (INPUT1 or INPUT2).
- The signal are output from this terminal only when the monitor is turned on.



Controls and Features (continued)

3 E.AUDIO MONITOR OUT terminals

Decodes EMBEDDED AUDIO signals and outputs them as analogue signals.

- The audio channel output from the E.AUDIO MONITOR OUT terminals (CH1 or CH2) is switched according to the EMBEDDED AUDIO channel selection on the monitor*. See the table below for more information.

EMBEDDED AUDIO channel selection (monitor display*)	Output audio channel	
	CH1	CH2
1ch	Channel 1	Channel 2
2ch	Channel 2	
3ch	Channel 3	Channel 4
4ch	Channel 4	
5ch	Channel 5	Channel 6
6ch	Channel 6	
7ch	Channel 7	Channel 8
8ch	Channel 8	
1–2ch	Mix channels 1 and 2	
3–4ch	Mix channels 3 and 4	
5–6ch	Mix channels 5 and 6	
7–8ch	Mix channels 7 and 8	
1–4ch	Mix channels 1 to 4	
5–8ch	Mix channels 5 to 8	
AUTO	Mix all channels	

* Only the monitors compatible with the EMBEDDED AUDIO channel selection. Refer to the instruction manual of the monitor for more information.

If your monitor is not compatible with it, use DIP switches on the Input Card to select the EMBEDDED AUDIO channel. See pages 4 and 5.

About the audio output level

- When several audio channels are output at the same time, the more channels that are selected, the lower each channel's output level will be. (Each channel's output level becomes half for "1–2ch," quarter for "1–4ch.")
- The "AUTO" setting mixes and outputs all channels the signal has. The output level is automatically set according to the number of channels.

NOTES:

- Even after the input signal from another Input Card is selected for the monitor, the E.AUDIO MONITOR OUT terminal continues to output the audio signal of the input selected last on this card (INPUT1 or INPUT2). The audio channel selection will also remain.
- The signal are output from this terminal only when the monitor is turned on.

4 Audio input/output terminals

Accepts analog audio signals.

- The IN and OUT terminals are bridge-connected.

■ To output the audio signal to the IN terminal from the monitor's speaker

Set the audio input type to analog audio, and select INPUT1. (To set the audio input type, use DIP switches. See pages 3 and 4.)

5 Connection terminal (on the rear side)

Attach this to the connection terminal in the slot of your monitor.

About AUTO INPUT function

AUTO INPUT function can be used when "AUTO INPUT" is displayed in "FUNCTION SETTING" on the SET-UP MENU of the monitor. Refer to the instruction manual of the monitor for more information.

About AUDIO LEVEL METER function (IF-C51SD1G only)

To set AUDIO LEVEL METER display on or off and make its various settings, use the following items displayed in "STATUS DISPLAY" on the SET-UP MENU of the monitor:

LEVEL METER ch / BAR TYPE / REFERENCE LEVEL / OVERLEVEL /
BAR BRIGHTNESS

Refer to the instruction manual of the monitor for more information.

- When your monitor does not have the functions listed above, use DIP switches on the input card to set the AUDIO LEVEL METER display. See "Setting Dip Switches" on pages 3 to 7.

Specifications

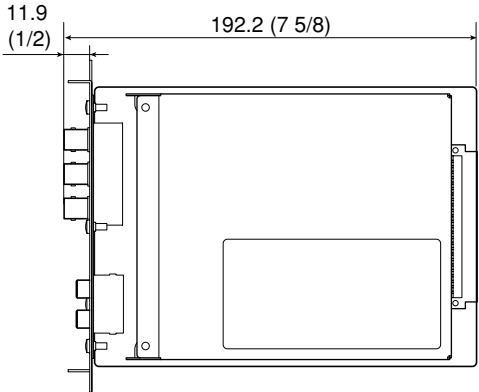
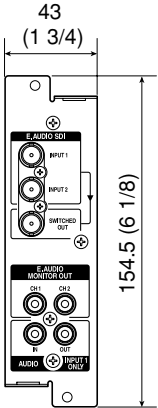
- Model:** IF-C21SD1G (not compatible with AUDIO LEVEL METER)
 IF-C51SD1G (compatible with AUDIO LEVEL METER)
- Type:** SDI Input Card
- Target monitors:** Consult your dealer.
- Inputs/Outputs:** Digital signal input (compatible with EMBEDDED AUDIO)
 E.AUDIO SDI (INPUT1/INPUT2): 2 lines, BNC x 2, 0.8 V(p-p), 75 Ω
 Digital signal output (compatible with EMBEDDED AUDIO)
 SWITCHED OUT: 1 line switched out, BNC x 1, 0.8 V(p-p), 75 Ω
 Analog audio input/output
 AUDIO (IN/OUT): 1 line, RCA x 2, 0.5 V(rms) (TYP)
 Analog audio output
 E.AUDIO MONITOR OUT (CH1/CH2): 2 lines, RCA x 2
 (250 mV(rms), high impedance (-18 dB FS))
- Compliant signal format:** 480/60i, 576/50i
- Format:** SD SDI: SMPTE259M, SMPTE272M
- Required slots:** 1
- Weight:** 0.6 kg (1.4 lbs)
- Dimensions (W x H x D):** 43 mm x 154.5 mm x 192.2 mm (1 3/4" x 6 1/8" x 7 5/8")

■ Dimensions

Unit: mm (inch)

<Front View>
 (Terminal Side)

<Side View>



IF-C21SD1G/IF-C51SD1G SDI INPUT CARD

JVC