

# HDMI 2.1 Converter Box



## SD-7075-A

NEW

SD-7075-A is an HDMI converter box to convert four channels of HDMI 2.0 to one channel of HDMI 2.1. It is useful for connecting to an HDMI 2.1 TV from a set top box or graphic board that has 4 channels of HDMI 2.0 output.

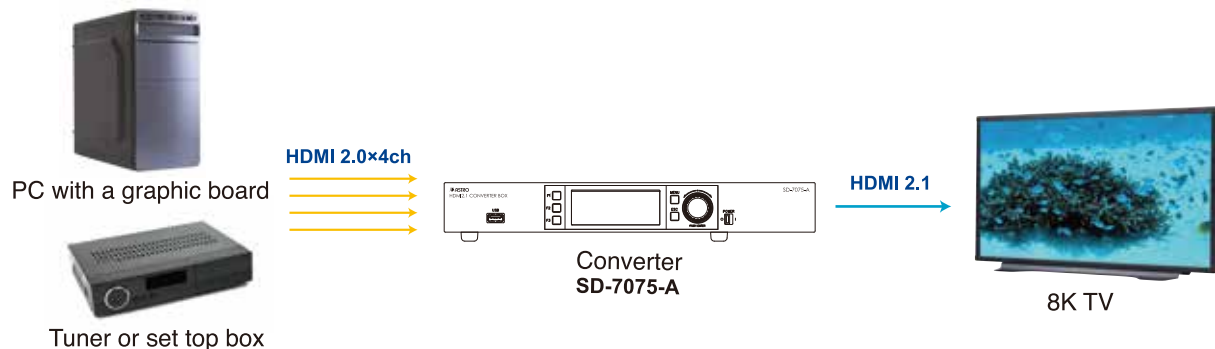
### Features

- Convert HDMI 2.0 TMDS (4ch) to HDMI 2.1 FRL (1ch).
- Supports DSC (Display Stream Compression) 1.2.
- Supports HDCP 1.4 and 2.3.
- EDID, SCDC and Link Training status are displayed on the front panel.
- LAN, RS-232C and GPIO (customized base) for external control.

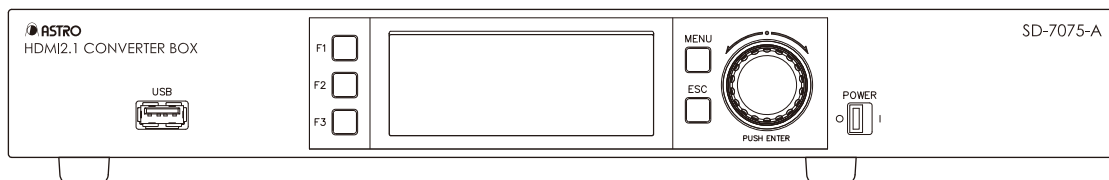
Note :

- 1 : Frame rate and bit depth of output video are same as input video. In case of 8K/50p, 59.94p and 60p output, it becomes YC<sub>B</sub>Cr 4:2:0 automatically.
- 2 : FRL output rate is determined according to the EDID of the HDMI Sink. If there is no EDID in the HDMI Sink, maximum FRL rate will be output.
- 3 : All 4 input channels should be connected to the Source.

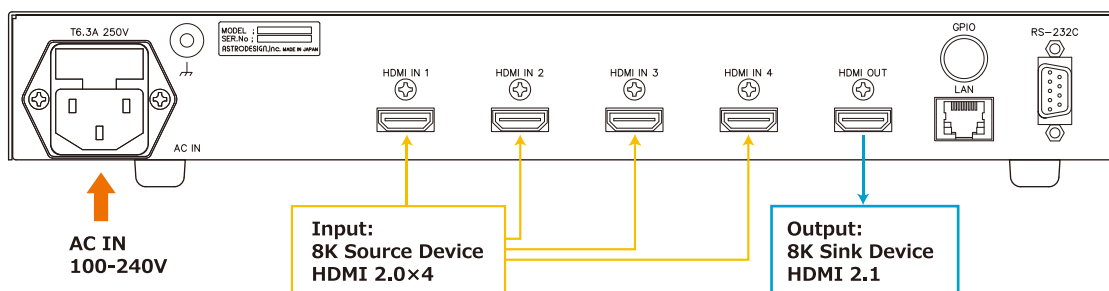
### Application



### Front View



### Rear View



## Input Format (per each HDMI port)

| Resolution   | Frame Rate      | Colorimetry                   | Bit     |
|--------------|-----------------|-------------------------------|---------|
| 3840 × 2160p | 60/59.94/50p    | RGB/YCbCr 4:4:4               | 8       |
| 3840 × 2160p | 60/59.94/50p    | YCbCr 4:2:2                   | 12      |
| 3840 × 2160p | 60/59.94/50p    | YCbCr 4:2:0                   | 8/10/12 |
| 3840 × 2160p | 30/25/24p       | RGB/YCbCr 4:4:4               | 8/10/12 |
| 3840 × 2160p | 30/25/24p       | YCbCr 4:2:2                   | 12      |
| 1920 × 1080p | 120/119.88/100p | RGB/YCbCr 4:4:4, 4:2:2, 4:2:0 | 8/10/12 |
| 640 × 480p   | 60p             | RGB/YCbCr 4:4:4               | 8/10/12 |

| Audio Format  |
|---|
| L-PCM: 8ch (max)<br>32kHz/44.1kHz/48kHz/88.2kHz/96kHz/<br>176.4kHz/192kHz,16bit/20bit/24bit |
| AAC LC: 6ch (max),<br>32kHz/44.1kHz/48kHz/96kHz,<br>576kbps(max)                            |
| DTS: 6ch (max), 44.1kHz/48kHz,<br>1536kbps (max)  |
| AC-3: 6ch (max), 32kHz/44.1kHz/48kHz,<br>640kbps (max)                                      |

## Output Format

### Video

| DSC         | Resolution  | Frame Rate      | Colorimetry     | Bit         | FRL Rate |        |       |       |       |       |   |
|-------------|-------------|-----------------|-----------------|-------------|----------|--------|-------|-------|-------|-------|---|
|             |             |                 |                 |             | 12G/4L   | 10G/4L | 8G/4L | 6G/4L | 6G/3L | 3G/3L |   |
| OFF         | 7680 × 3840 | 60/59.94/50p    | YCbCr 4:2:0     | 12          | ●        |        |       |       |       |       |   |
|             |             |                 |                 | 10          | ●        | ●      |       |       |       |       |   |
|             |             |                 |                 | 8           | ●        | ●      | ●     |       |       |       |   |
|             |             | 30/25p          | RGB/YCbCr 4:4:4 | 12          | ●        |        |       |       |       |       |   |
|             |             |                 |                 | 10          | ●        | ●      |       |       |       |       |   |
|             |             |                 |                 | 8           | ●        | ●      | ●     |       |       |       |   |
|             | 30/25/24p   | RGB/YCbCr 4:4:4 | YCbCr 4:2:2     | 12          | ●        | ●      | ●     |       |       |       |   |
|             |             |                 |                 | 10          | ●        | ●      | ●     |       |       |       |   |
|             |             |                 |                 | 8           | ●        | ●      | ●     | ●     |       |       |   |
|             | 3840 × 2160 | 120/119.88/100p | RGB/YCbCr 4:4:4 | YCbCr 4:2:2 | 12       | ●      | ●     | ●     |       |       |   |
|             |             |                 |                 |             | 10       | ●      | ●     | ●     |       |       |   |
|             |             |                 |                 |             | 8        | ●      | ●     | ●     | ●     |       |   |
| YCbCr 4:2:2 |             |                 | RGB/YCbCr 4:4:4 | 12          | ●        | ●      | ●     | ●     |       |       |   |
|             |             |                 |                 | 10          | ●        | ●      | ●     | ●     |       |       |   |
|             |             |                 |                 | 8           | ●        | ●      | ●     | ●     | ●     |       |   |
| ON          | 7680 × 4320 | 60/59.94/50p    | RGB/YCbCr 4:4:4 | YCbCr 4:2:2 | 12       | ●      | ●     | ●     | ●     |       |   |
|             |             |                 |                 |             | 10       |        |       |       | ●     |       |   |
|             |             |                 |                 |             | 8        |        |       |       | ●     |       |   |
|             |             | 30/25/24p       | RGB/YCbCr 4:4:4 | YCbCr 4:2:2 | 12       |        | ●     | ●     | ●     | ●     |   |
|             |             |                 |                 |             | 10       |        |       | ●     | ●     | ●     | ● |
|             |             |                 |                 |             | 8        |        |       |       | ●     | ●     | ● |
|             | 3840 × 2160 | 120/119.88/100p | RGB/YCbCr 4:4:4 | YCbCr 4:2:2 | 12       |        | ●     | ●     | ●     | ●     | ● |
|             |             |                 |                 |             | 10       |        |       | ●     | ●     | ●     | ● |
|             |             |                 |                 |             | 8        |        |       |       | ●     | ●     | ● |

Audio follows input format.

## General Specifications

| Items              | Description              |  |
|--------------------|--------------------------|--|
| HDMI               | Dot Clock                | 25MHz to 2376MHz                                 |
|                    | Color Format             | RGB, YCbCr 4:4:4/4:2:2/4:2:0                     |
|                    | Color Depth              | 8, 10, 12-bit                                    |
|                    | Audio Sampling Frequency | 32kHz to 192kHz (L-PCM 2 to 8ch) IEC60958, 61937 |
|                    | HDCP                     | Ver. 1.4/2.3                                     |
|                    | E-EDID                   | Ver. 1.4 (DCC2B)                                 |
|                    | External Supplying Power | 5V/Max. 50mA                                     |
| Power Requirements | AC 100 – 240V            |  |
| Power Consumption  | TBD                      |  |
| Dimensions         | TBD                      |  |
| Weight             | Approx. 2kg              |  |