



## 3G-SDI Terminal Board TY-SB01SS

### ● Product specification (design and specification subject to change without notice)

#### ■ Compatible Model

SQ1series, BQ1series

#### ■ Terminal

|            |                          |
|------------|--------------------------|
| 3G-SDI IN  | BNC x 1 : 0.8Vp-p (75Ω)  |
| 3G-SDI OUT | BNC x 1 : Active through |

#### ■ Standards compliance

|       |  |
|-------|--|
| Video | (3G-SDI) SMPTE ST 424 / 425<br>(HD-SDI) SMPTE ST 292 / 274 / 296<br>(SD-SDI) SMPTE ST 259 / ITU-R BT.656 |
| Audio | (3G, HD-SDI) SMPTE ST 299<br>(SD-SDI) SMPTE ST 272   |

#### ■ Compatible video format \*refer to the correspondence table

|        |  |
|--------|--|
| 3G-SDI | 1080/60p, 50p, 30p, 25p, 24p, 60i, 50i, 720/60p, 50p |
| HD-SDI | 1080/30p, 25p, 24p, 60i, 50i, 720/60p, 50p           |
| SD-SDI | 525/59.94i, 625/50i                                  |

#### ■ Compatible audio format

|        |   |
|--------|---|
| 3G-SDI | 48KHz, 20/24bit, 16CH, Synchronized video |
| HD-SDI | 48KHz, 20/24bit, 8CH, Synchronized video  |
| SD-SDI | 48KHz, 20/24bit, 4CH, Synchronized video  |

#### ■ Mechanical

|                        |  |
|------------------------|--|
| Dimensions (W x D x H) | 7.7" x 1.0" x 4.9" (195 x 25 x 124.4 mm) |
| Weight                 | approx. 0.4 lbs (160 g)                  |
| Carton siz (W x D x H) | 12.6" x 2.3" x 12.5" (319 x 56 x 316 mm) |
| Gross weight           | approx. 1.3 lbs (580 g)                  |

#### ■ Recommended cable

|        |                        |
|--------|------------------------|
| 3G, Hd | 75 coaxial cable 5C-FB |
| SD     | 75 coaxial cable 5C-2V |

#### ■ Max. Transmission distance

|        |       |
|--------|-------|
| 3G, Hd | 100 m |
| SD     | 200 m |

### ● This product is a 3G-SDI terminal board that is attached to the SQ1<sup>(note)</sup> series.

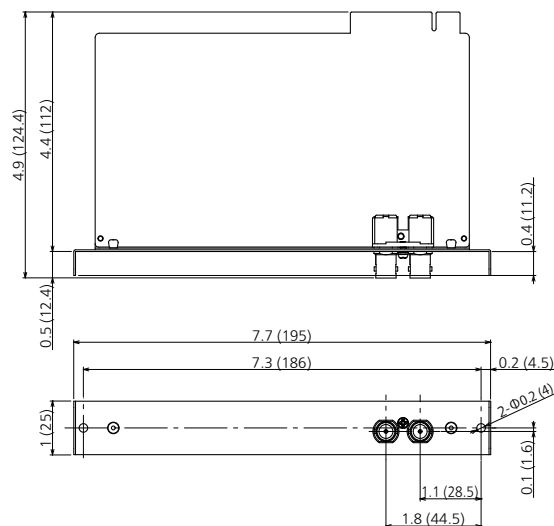
\* This product does not work alone.

\* This product will not work if it is installed on a product other than the corresponding model.

\* Please consult with a professional engineer or dealer to install or remove this product from the display.

(note) This terminal board is supported only when the main software version of the display is 3.5000 or later and the sub software version of the display is 03.50 or later. For update, please contact your Panasonic dealer.

### ● DIMENSIONS



Cautions: This drawing is not a scale  
Units : inches (mm)

## ● Applicable Input Signals

### ■ Supported SDI input signal format chart

| Correspondence signal | Resolution (dot) | Scanning frequency |               | Dot clock frequency (MHz) | SDI Format<br>(270M SD-SDI / 1.5G HD-SDI / 3G Level A / 3G Level B-DL) | Colour space<br>(YCbCr/RGB) | Sampling structure<br>(4:2:2 / 4:4:4) | Bit depth<br>(8bit / 10bit / 12bit) |
|-----------------------|------------------|--------------------|---------------|---------------------------|--|-----------------------------|---------------------------------------|-------------------------------------|
|                       |                  | Horizontal (kHz)   | Vertical (Hz) |                           |  |                             |                                       |                                     |
| 480/60i               | 720 x 480i       | 15.73              | 59.94         | 13.50                     | 270M SD-SDI  | YCbCr                       | 4:2:2                                 | 8/10                                |
| 576/50i               | 720 x 576i       | 15.63              | 50.00         | 13.50                     | 270M SD-SDI  | YCbCr                       | 4:2:2                                 | 8/10                                |
| 720/50p               | 1280 x 720       | 37.50              | 50.00         | 74.25                     | 1.5G HD-SDI  | YCbCr                       | 4:2:2                                 | 8/10                                |
|                       |                  |                    |               |                           | 3G Level A / 3G Level B-DL   | YCbCr/RGB                   | 4:4:4                                 | 8/10                                |
| 720/60p *1            | 1280 x 720       | 45.00              | 60.00         | 74.25                     | 1.5G HD-SDI  | YCbCr                       | 4:2:2                                 | 8/10                                |
|                       |                  |                    |               |                           | 3G Level A / 3G Level B-DL   | YCbCr/RGB                   | 4:4:4                                 | 8/10                                |
| 1080/50i              | 1920 x 1080i     | 28.13              | 50.00         | 74.25                     | 1.5G HD-SDI  | YCbCr                       | 4:2:2                                 | 8/10                                |
|                       |                  |                    |               |                           | 3G Level A / 3G Level B-DL   | YCbCr                       | 4:2:2                                 | 12                                  |
| 1080/50i *1           | 1920 x 1080i     | 28.13              | 50.00         | 74.25                     | 3G Level A / 3G Level B-DL   | YCbCr/RGB                   | 4:4:4                                 | 8/10/12                             |
|                       |                  |                    |               |                           | 1.5G HD-SDI  | YCbCr                       | 4:2:2                                 | 8/10                                |
| 1080/60i *1           | 1920 x 1080i     | 33.75              | 60.00         | 74.25                     | 3G Level A / 3G Level B-DL   | YCbCr                       | 4:2:2                                 | 12                                  |
|                       |                  |                    |               |                           | 1.5G HD-SDI  | YCbCr/RGB                   | 4:4:4                                 | 8/10/12                             |
| 1080/24p *1           | 1920 x 1080      | 27.00              | 24.00         | 74.25                     | 1.5G HD-SDI  | YCbCr                       | 4:2:2                                 | 8/10                                |
|                       |                  |                    |               |                           | 3G Level A / 3G Level B-DL   | YCbCr                       | 4:2:2                                 | 12                                  |
| 1080/25p              | 1920 x 1080      | 28.13              | 25.00         | 74.25                     | 3G Level A / 3G Level B-DL   | YCbCr/RGB                   | 4:4:4                                 | 8/10/12                             |
|                       |                  |                    |               |                           | 1.5G HD-SDI  | YCbCr                       | 4:2:2                                 | 8/10                                |
| 1080/25p              | 1920 x 1080      | 28.13              | 25.00         | 74.25                     | 3G Level A / 3G Level B-DL   | YCbCr                       | 4:2:2                                 | 12                                  |
|                       |                  |                    |               |                           | 1.5G HD-SDI  | YCbCr/RGB                   | 4:4:4                                 | 8/10/12                             |
| 1080/30p *1           | 1920 x 1080      | 33.75              | 30.00         | 74.25                     | 3G Level A / 3G Level B-DL   | YCbCr                       | 4:2:2                                 | 12                                  |
|                       |                  |                    |               |                           | 1.5G HD-SDI  | YCbCr/RGB                   | 4:4:4                                 | 8/10/12                             |
| 1080/50p              | 1920 x 1080      | 56.25              | 50.00         | 148.50                    | 3G Level A / 3G Level B-DL   | YCbCr                       | 4:2:2                                 | 8/10                                |
| 1080/60p *1           | 1920 x 1080      | 67.50              | 60.00         | 148.50                    | 3G Level A / 3G Level B-DL   | YCbCr                       | 4:2:2                                 | 8/10                                |

\*1: 1/1.001 is also supported.

#### SDI Format

- 270M SD-SDI: SD-SDI format with 270 MHz
- 1.5G HD-SDI: HD-SDI format with 1.5 GHz
- 3G LEVEL A: HD-SDI format with 3 GHz LEVEL A
- 3G LEVEL B-DL: HD-SDI format with 3 GHz LEVEL B-DL

#### Colour space

- YCbCr: Y brightness signal, CB colour-difference signal, CR colour-difference signal
- RGB: Primary colour R/G/B signals

#### Sampling structure

- 4:2:2: The sampling rate for Y signal, CB and CR signals is 4:2:2
- 4:4:4: The sampling rate for Y signal, CB and CR signals (or R/G/B signals) is 4:4:4

- This product does not support closed caption (C.C.) or time code (TC).
- An auto detected signal format may be differently displayed from the actual input signal.