

# TG45BX003 HDMI Output Unit

--- Version 1.3, supports xvYCC or deep color ---

## ■ Features

TG45AX003 HDMI Output Unit generates HDMI Version 1.3 signal by slotting it into the TG45AX. The output signal is able to generate Test Signal, Natural Picture and Superimpose Signal. It supports variable signal parameter function, too. It is used 2 devices of HDMI version 1.3 Tx PHY, so it supports 2 outputs at the same time.

## ■ Specifications

- ◆ Supports 59 kinds of HDMI Spec Ver1.3 video formats.
- ◆ 8, 10 and 12 bits are supported at GBR (4:4:4) and Y Cr Cb (4:2:2, 4:4:4).
- ◆ Up to 165 MHz of dotclock.
- ◆ Sound sampling frequency is supported up to 192 kHz. (excluding SACD)  
\* Ext. sound input is S/PDIF (RCA connector).
- ◆ Supported xvYCC (xv Color) or deep color  
\* The Colorimeters data are added later on.
- ◆ AV- Lip sync measurement pattern is Scheduled as option.
- ◆ Detect connection of HDMI Rx equipments by HPD.
- ◆ Display HDMI Rx equipments and information by EDID.
- ◆ Setting and transmitting control information by Info packet as displayed.
- ◆ Confirmed copyright protection by HDCP.



TG45BX003 rear view

## ■ HDMI Spec Ver.1.3 Video format

| Video code | Video description             | Video code | Video description               |
|------------|-------------------------------|------------|---------------------------------|
| 1          | 640 * 480p@60 Hz              | 32         | 1920 * 1080p@23.97/24 Hz        |
| 2,3        | 720 * 480p@59.94/60 Hz        | 33         | 1920 * 1080p@25 Hz              |
| 4          | 1280 * 720p@59.94/60 Hz       | 34         | 1920 * 1080p@29.97/30 Hz        |
| 5          | 1920 * 1080i@59.94/60 Hz      | 35, 36     | 2880 * 480p@59.94/60 Hz         |
| 6,7        | 720 (1440) * 480i@59.94/60 Hz | 37, 38     | 2880 * 576p@50 Hz               |
| 8,9        | 720 (1440) * 240p@59.94/60 Hz | 39         | 1920 * 1080i (1250 total)@50 Hz |
| 10, 11     | 2880 * 480i@59.94/60 Hz       | 40         | 1920 * 1080i@100 Hz             |
| 12, 13     | 2880 * 240p@59.94/60 Hz       | 41         | 1280 * 720p@100 Hz              |
| 14, 15     | 1440*480p@59.94/60 Hz         | 42, 43     | 720 * 576p@100 Hz               |
| 16         | 1920 * 1080p@59.94/60 Hz      | 44, 45     | 720 (1440) * 576i@100 Hz        |
| 17, 18     | 720 * 576p@50 Hz              | 46         | 1920 * 1080i@119.88/120 Hz      |
| 19         | 1280 * 720p@50 Hz             | 47         | 1280 * 720p@119.88/120 Hz       |
| 20         | 1920*1080i@50 Hz              | 48, 49     | 720 * 480p@119.88/120 Hz        |
| 21, 22     | 720 (1440) * 576i@50 Hz       | 50, 51     | 720 (1440)@119.88/120 Hz        |
| 23, 24     | 720 (1440) * 288p@50 Hz       | 52, 53     | 720 * 576p@200 Hz               |
| 25, 26     | 2880 * 576i@50 Hz             | 54, 55     | 720 (1440) * 576i@200 Hz        |
| 27, 28     | 2880 * 288@50 Hz              | 56, 57     | 720 * 480p@239.76/240 Hz        |
| 29, 30     | 1440 * 576p@50 Hz             | 58, 59     | 720 (1440) * 480i@239.76/240 Hz |
| 31         | 1920 * 1080p@50 Hz            |            |                                 |

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