

VB45AX HDMI 4K Up-converter

Easily converted to 4K signal at attractive price



Discontinued

- ◇ Supports HDMI2.0 (4K 60p (6Gbps) YCbCr 4:2:2 10bit)
- ◇ High quality up-converts 1920x1080p to 3840x2160p
- ◇ Effective utilization of HDMI1.4 equipments
- ◇ Supports HDCP2.2
- ◇ Audio and CEC inherited the input signal.
- ◇ Attractive price, light weight and compact size

Source



**HDMI 4K
Up-converter**

**HDMI1.3
HDMI1.4**
1920 × 1080p



HDMI 2.0
3840 × 2160p
(HDCP2.2)

Sink



◇ Conversion format

Input Signal				Output Signal			
Formats	Frame Rate	Color	Bit length	Formats	Frame Rate	Color	Bit length
1920x1080p	59.94Hz/60Hz	RGB (4:4:4)	8, 10, 12	3840x2160p	59.94Hz/60Hz	RGB (4:4:4)	8
		YCbCr (4:4:4)	8, 10, 12			YCbCr (4:4:4)	8
		YCbCr (4:2:2)	8, 10, 12			YCbCr (4:2:2)	Same as input*1
1920x1080p	50Hz	RGB (4:4:4)	8, 10, 12	3840x2160p	50Hz	RGB (4:4:4)	8
		YCbCr (4:4:4)	8, 10, 12			YCbCr (4:4:4)	8
		YCbCr (4:2:2)	8, 10, 12			YCbCr (4:2:2)	Same as input*1
1920x1080p	29.97Hz/30Hz	RGB (4:4:4)	8, 10, 12	3840x2160p	29.97Hz/30Hz	RGB (4:4:4)	8
		YCbCr (4:4:4)	8, 10, 12			YCbCr (4:4:4)	8
		YCbCr (4:2:2)	8, 10, 12			YCbCr (4:2:2)	Same as input*1
1920x1080p	25Hz	RGB (4:4:4)	8, 10, 12	3840x2160p	25Hz	RGB (4:4:4)	8
		YCbCr (4:4:4)	8, 10, 12			YCbCr (4:4:4)	8
		YCbCr (4:2:2)	8, 10, 12			YCbCr (4:2:2)	Same as input*1
1920x1080p	23.98Hz/24Hz	RGB (4:4:4)	8, 10, 12	3840x2160p	23.98Hz/24Hz	RGB (4:4:4)	8
		YCbCr (4:4:4)	8, 10, 12			YCbCr (4:4:4)	8
		YCbCr (4:2:2)	8, 10, 12			YCbCr (4:2:2)	Same as input*1

The format other than the above input signal will be bypassed to output signal.
Also, The input signal will be bypassed to output signal when Sink devices is not support to 4K.

*1 : Bit rate will be 12bit.

SINK devices HDMI 1.4 (YCbCr 4: 2: 0 8bit) In the case of, VB45AX the YCbCr 4: 2: 0 outputs the 8bit.

◇ HDCP propagation

HDCP of support will be as in the table on the right.

Input signal		Output signal
HDCP free		HDCP free
HDCP1.4	Bypass	HDCP1.4
	4K Up-convert	HDCP2.2
HDCP2.2		HDCP2.2

◇ Specification

Operate temperature	0 to 40 degrees C
Relative humidity	25 to 90% RH during (no condensation)
Power supply voltage	DC+5V MiniUSB (Power consumption 3VA)
Dimensions	64(W) × 26 (H) × 57 (D) mm

◇ Accessories

AC adapter	1pc
USB cable	1pc



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