

# VC31K series

## HDTV Up/Down Standards Converter



### ■ General

The VC31K series converts standard television formats including major video parameters such as the number of scan lines and number of pixels.

There are 6 model types available according to their respective conversion functions, i.e., the up converter models to convert 480/59.94i to 1080/59.94i or 576/50i to 1080/50i, the down converter model to convert 1080/59.94i to 480/59.94i or 1080/50i to 576/50i, and the up/down converter models to perform conversion in both directions.

### ■ Features

- ◆ Equipped dual redundant power supply and Display for alarms
- ◆ Minimizes resolution deterioration using motion-adaptive line interpolation (up conversion)
  - Still picture areas: Line interpolation between fields
  - Moving picture areas: Line interpolation within a field
- ◆ Abundant functions for picture quality improvement
  - Enhancement, Noise reduction, Parameter setting of internal filters
- ◆ Equipped SD-SDI and HD-SDI (input/output signals)
- ◆ Supports Embedded audio and AES/EBU audio signals
- ◆ Supports audio embedded/de-embedded function and audio delay variable function
- ◆ Supports external sync signal (Tri-level sync, BB signal)
- ◆ Aspect ratio conversion setting such as Top & Bottom cut, Letter Box, 13:9, 14:9 and so on
- ◆ Easy operation by using LCD and short cut keys
- ◆ Protect function preventing inadvertent key touches
- ◆ Equipped RS-485 interface for external remote transmission

### ■ Conversion functions

Model	Description	Conversion format
VC31KU	Up Conversion	480/59.94i ⇒ 1080/59.94i
VC31KD	Down Conversion	1080/59.94i ⇒ 480/59.94i
VC31KB	Up & Down Conversion	480/59.94i ⇔ 1080/59.94i
VC31KUC	Up Conversion	576/50i ⇒ 1080/50i
VC31KDC	Down Conversion	1080/50i ⇒ 576/50i
VC31KBC	Up & Down Conversion	576/50i ⇔ 1080/50i

■ Specifications

◇ Input signals

SDTV SDI signal 2 x BNC (active through)  
Conforms to ITU REC.601  
and SMPTE 259M

HDTV SDI signal 2 x BNC (active through)  
Conforms to SMPTE 292M

Embedded audio signal

SDTV 24bits, 48 kHz, 8 channels  
(group selection is available)  
Conforms to SMPTE 272M

HDTV 24bits, 48 kHz, 8 channels  
(group selection is available)  
Conforms to SMPTE 299M

AES/EBU audio signal

4 x BNC, 500 mVp-p+/-20%,  
75 ohm termination  
48 kHz, 8 channels

External sync signal

1 x BNC, loop through or  
75 ohm termination can be  
selected

SDTV output: Composite SYNC signal or  
BB signal

HDTV output: Tri-level SYNC signal or  
BB signal

◇ Output signals

SDTV SDI signal 3 x BNC (active through)  
Conforms to ITU REC.601  
and SMPTE 259M

HDTV SDI signal 2 x BNC (active through)  
Conforms to SMPTE 292M

Embedded audio signal

SDTV 24bits, 48 kHz, 8 channels  
(group selection is available)  
Conforms to SMPTE 272M

HDTV 24bits, 48 kHz, 8 channels  
(group selection is available)  
Conforms to SMPTE 299M

AES/EBU audio signal

4 x BNC, 500 mVp-p+/-20%,  
75 ohm termination  
48 kHz, 8 channels

◇ External remote RS-485 interface,  
D-sub 9 pins (male)

◇ General specifications

Operate temperature 0 to 40 degrees C

Relative humidity 5 to 90% RH during  
(no condensation)

Power supply AC90 to 250 V, 50/60 Hz

Power consumption 70 VA or less

Dimensions 426 (W)×88 (H)×450 (D) mm

Weight Approx. 9 kg



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