

# Vidicraft VSC-2102

## Universal Multisystem TV Standards Converter, Time Base Corrector and Transcoder

The Vidicraft VSC-2102 is a Universal Multisystem TV Standards Converter, Time Base Corrector and Transcoder, with professional construction and performance at consumer price. Its state of the art design, digital processing and robust handling of all type of signals, make it specially suited to cable TV headends, small production houses, mobile units and multimedia presentations.

### Main Features

- Bi-directional conversion PAL, PAL N, PAL M, PAL-60, NTSCM, NTSC 4.43-60, NTSC4.43-50, NTSCN-50, NTSC-Japan and SECAM (\*).
- 4 line adaptive comb filter. Bandwidth 5.5 MHz.
- Digital multisystem decoder and encoder.
- Sampling: 8 bit, 4:2:2 .
- 4-point interpolator.
- Composite video and Y/C (S-video, optional) input with AGC.
- Composite video and Y/C (S-video, optional) output.
- Automatic or manual selection of input system.
- Selection of automatic freeze of last field or insertion of color bars in case of input signal loss (\*).
- Recovery of operative conditions in case of AC line failure or power on-off.

### TECHNICAL SPECIFICATIONS

#### General

Sampling:	8 bit, 4:2:2, 9 bit A/D converter, 10 bit D/A converter
Interpolation:	4-points aperture
Decoder/Encoder:	Digital multisystem
Input:	PAL, PALN, PALM, PAL-60, NTSCM, NTSC4.43-60, NTSC4.43-50, NTSCN-50, NTSC-Japan, SECAM
Output:	PAL, PALN, PALM, NTSC M, NTSC4.43-60
Conversion:	Bi-directional: 525/60 to 625/50 and 625/50 to 525/60
Comb filter:	4 line adaptive comb filter for all coherent PAL/NTSC signals

#### Performance

Luminance bandwidth:	5.5 MHz, comb filter
Differential gain:	2%
Differential phase:	2%
Noise spectrum:	less than -58 dB
Luma/chroma delay:	less than 10 ns

#### Selectors

Input system selection:	Automatic or manual
Output system selection:	Manual
Selection of luma / chroma separation filter	Comb or notch

Automatic selection  
in the event of signal loss: Freeze of last valid field or Color bars (Composite video  
version. Color bars only in the / Y/C version)\*

Selection of composite  
Video or Y/C input: Manual (/ Y/C version only)\*

### **Input and Output**

#### **Formats**

Composite video In/Out: 1 Vpp/75 ohms, BNC  
Y/C (S-video) In/Out: 1 Vpp luma, 0.3 Vpp chroma / 75 ohms, mini DIN

### **Physical and Electrical**

AC Voltage: 100-240V, 50-60 Hz  
AC Power: 15W, 0.25A  
Dimensions: 1 RU, 19" rack mountable  
483 mm (W) x 44 mm (H) x 150 mm (D)  
Weight: 1.8 kg

### **Versions**

VSC-2102 Multisystem Converter, bi-directional, composite video  
input and output.

VSC-2102/Y/C Multisystem Converter, bi-directional, composite video and  
Y/C input and output.

#### **(\*) Notes:**

PAL-60, NTSC4.43-50, NTSCN-50 and Secam, for input system only.

The last selector switch (SW8) function depends on option. In the composite  
video version it is the automatic selection in the event of signal loss; in the /  
Y/C version it is the composite video or Y/C input selection.

Specifications subject to change without notice.

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### **Vidicraft**

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