

# VERSATILE CONVERTER WITH UNIVERSAL INPUTS & OUTPUTS

FOR THE CONVERSION OF ALL COMPUTER TO VIDEO SIGNALS AND VICE VERSA

VIO 1600™ ref.: V301

**NEW**

- > **3 universal A/V inputs:**
  - Computer: RGB, DVI up to 1600x1200
  - NTSC, PAL, SECAM, S.Video, RGB, YUV
  - HDTV (HDYUV)
  - SDI, HD SDI (optional)
  - Universal connector interface
  - Loophrough on each input
- > **Universal output:**
  - Computer: RGB, DVI up to SXGA+
  - Composite, S. Video, RGB, YUV
  - HDTV (HDYUV)
- > **Stereo Audio: 3 inputs / 1 output**



## FEATURES:

- 3 Universal Inputs + Stereo Audio
- Universal Output
- Universal Connector Interface
- Smooth and fast seamless switching
- NTSC/PAL/SECAM Standard Converter to PAL/NTSC
- Anti-Flicker
- Improved Active Motion Compensation, FRF, TBC, FRC, 3:2 & 2:2 pull down
- RS232 controllable & Firmware upgradable
  - Test Patterns
  - Optional LAN interface for remote control

## REFERENCES:

- V301: VIO 1600
- V301-D1: VIO 1600 with SDI & HD SDI input

## OPTIONS:

- OPT-LAN: TCP/IP Control Interface
- OPT-RMK: Rack Mount Kit option



[www.analogway.com](http://www.analogway.com)

P/N : V301/A0205-VA

# VIO 1600™

## DESCRIPTION:

**VIO 1600** by **Analog Way** is a multi-purpose **Switcher / Converter / Interface**. With 3 universal inputs, it accepts a large range of formats, from computer to video and HDTV, in analog or digital format, and a large range of connections: BNC, HD15, DVI, mini DIN, Cinch, RCA. The output provides the same diversity of formats, type of signals and connectors.

- **3 UNIVERSAL INPUTS:** each input features an active loopthrough (monitoring) for easy control of the sources and accepts the following TV formats: NTSC/PAL/SECAM, S.Video, RGB or YUV, HDTV in HDYUV and computer formats: RGB up to UXGA. Input 1 also accepts DVI-I. An optional 10 bit SDI & HDSDI input is available on input 2.

- **OUTPUT:** **VIO 1600** generates various output formats: PAL, NTSC, Y/C, YUV or computer, in analog or digital.

More than a powerful multi-format converter, **VIO 1600** is also a smooth and fast Switcher.

**VIO 1600** is a universal device with four functions in one: **Scan Converter, Scaler, Standard Converter with TBC and Interface**.

**VIO 1600** offers high quality image thanks to its 3:2 and 2:2 pull down circuitry, auto adaptative motion compensation, auto centering, Time Base Corrector, Frame Rate Converter and Follower, multi-level anti-flicker and the configurable adjustments recorded in a non volatile memory.

**VIO 1600** is a highly flexible device, essential in complex installations. It is useful to solve all last minute issues. **VIO** is your all in one **Versatile Input/Output** tool.

## TECHNICAL SPECIFICATIONS:

### 3 UNIVERSAL INPUTS:

- **SDTV:** Composite, S.Video, RGsB
- **NTSC=** 15.735 kHz/60 Hz
- **PAL/SECAM=** 15.625 kHz /50Hz
- **TVHD:** HDYUV (3 level sync, 3 wires) 1080i/60Hz, 1080i/50Hz, 720p/60Hz, 480p/60Hz
- **SDI & HDSDI** on V301-D1 model only, input 2, YUV-4:2:2
- **Computer:** RGBHV, RGsB and RGsB (PC, Mac, Workstation), auto centering, auto phase, auto sync., from 640x480 to 1600x1200 (130kHz max)
- **DVI** on input 1
- **Audio:** unbalanced stereo, 44k $\Omega$ /+18dBu max  
Each level trim

### OUTPUT:

- Composite, S.Video, YUV, RGsB, RGsB
- NTSC: 15.735kHz/60Hz
- PAL: 15.625kHz/50Hz
- HDYUV 720p/60-50Hz, 480p/60-50Hz

- RGBHV, RGsB (TTL or 0,3 analog), RGsB, DVI, from 640x480 to 1400x1050
- Stereo audio: Vo=+18dBu, Zo=300 $\Omega$   
G= - $\alpha$  to + 6dB Master Level

### USER CONTROLS:

- Buttons for direct access to input selection, image freeze, auto centering, image processing
- Intuitive LCD menu for easy set up

### CONNECTORS:

#### FRONT PANEL

#### INPUT 3:

- 2 mini DIN
- 6 RCA
- 2 HD15F for PC/TV/TVHD in and loopthrough
- 2 RCA for stereo audio

#### REAR PANEL

#### INPUT 1:

- 2 DVI-I and 5 BNC for digital and analog, PC/TV/HDTV and loopthrough
- 2 RCA (stereo audio)

### INPUT 2:

- 2 mini DIN 4
- 2 HD15 for PC/TV/HDTV and loopthrough
- optional 2 BNC for SDI/HDSDI
- 3.5mm jack for stereo audio

### OUTPUT:

- 1 HD15
- 5 BNC
- 1 mini DIN 4 pin
- 1 DVI-I digital and analog
- 2 RCA (stereo audio)

### OTHER:

- 1 DB9 for RS232
- RJ45 for TCP/IP, optional

### POWER SUPPLY:

- Internal, universal, automatic
- 100-250 VAC; 50/60 Hz (50 W) (UL, CSA, GS, CE)  
ON/OFF AC Main Switch

### DIMENSIONS: 19", 1U

- D300 x W450 x H44 mm
- D11.8" x W18" x H1.74"

**WEIGHT:** 3,5 kg (7.7 Lbs)

### SUPPLIED WITH:

- 1 x DVI-I/HD15 adaptor
- 1 x HD15/HD15 cable
- 1 x 5BNC/5BNC cable
- 1 x Y/C cable

- 1 x power cable
- 1 x Remote control software
- 1 x user's manual

### WARRANTY:

3 year warranty on parts and labor back to the factory