

# Tetra-VIO - Ref. TVC401

The Universal A/V Computer and HD Solution in Image Cross Conversion with Digital Audio De/Embedder



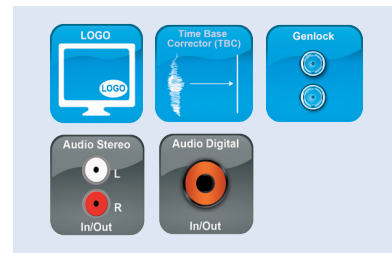
## INPUTS



## SIMULTANEOUS OUTPUTS



## FEATURES



### Tetra-VIO at a glance

- ▶ The "All in One" solution for any conversion
- ▶ Easy-to-use menus
- ▶ Provides Audio/Stereo switching following the video input
- ▶ Flexible switching capability
- ▶ High performance scaling and video processing

### To control Tetra-VIO

- ▶ Remote Control Software (RCS) (PC only)\*

\*Available on [www.analogway.com](http://www.analogway.com)

### Option

- ▶ OPT-LAN: TCP/IP Control Interface

### Key features

#### ▶ Inputs

- 3 Universal Inputs + 1 SD/HD-SDI
- Converts virtually any High Resolution up to 2K, TV and HDTV signals, Analog or Digital (input/output)
- Computer: RGB, DVI up to 1600x1200 & 2048x1080
- NTSC, PAL, SECAM, S.Video, RGB, YUV
- HDTV (HD-YUV, HD-RGB)
- SD/HD-SDI
- Universal connector interface & loop through on each input

#### ▶ Outputs

- Computer: RGB, DVI up to WUXGA & 2K
- NTSC, PAL, Composite, S. Video, RGB, YUV
- HDTV (HD-YUV, HD-RGB)
- SD/HD-SDI

#### ▶ Effects & features

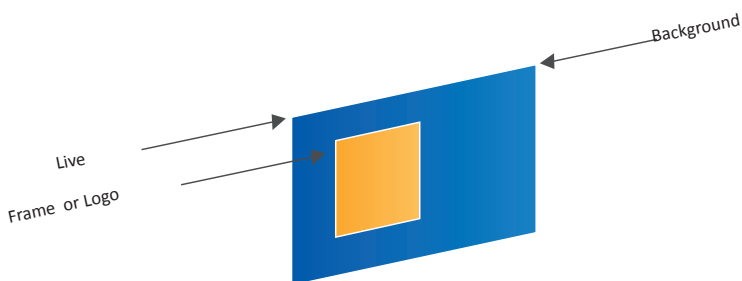
- **Stereo Audio:**
  - 4 inputs with level trim/1 output
  - Embedded Audio Digital & SPDIF

#### • Genlock:

- Multi-format Analog Genlock
- Black Burst PAL, NTSC
- Analog HD Black

#### • Effects:

- 1 still logo with transparency configuration recorded by acquisition or transfer
- Zoom up to 1000%
- The image can be positioned up to 100% anywhere off the screen, vertically, horizontally and outside the screen
- Image size adjustable to fit any LED wall/tiles
- 8 Preset memories
- 1 Full Frame or 2 logos
- Cross hatch dynamic Pattern
- Control RGB Tiles Pattern
- LED wall specific menu



The Tetra-VIO can display a logo or a full frame on the Live Background.



**ANALOG WAY®**  
Pioneer in Analog. Leader in Digital

# The "All in One" selection for any conversion

- ▶ Composite (PAL/NTSC/SECAM)
- ▶ S-Video
- ▶ YUV (Y CB Cr)
- ▶ Computer (RGBHV, RGBS, RGsB)
- ▶ HD-YUV (HD-YCrCb)
- ▶ HD-RGB
- ▶ DVI Digital
- ▶ HD-SDI
- ▶ SDI
- ▶ Analog Audio Stereo
- ▶ Digital Audio S/PDIF
- ▶ 1080P/1080i
- ▶ 720P
- ▶ 480P/480i
- ▶ High Resolution up to 2K



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## Universal system and format conversion

- ▶ Upward conversion
- ▶ Downward conversion
- ▶ Transcoder
- ▶ Coder
- ▶ Aspect ratios
- ▶ Multi-format Analog Genlock
- ▶ Test Patterns
- ▶ Zoom function & Pan
- ▶ Freeze Frame
- ▶ Aperture correction
- ▶ LED wall application

### Technical Specifications

#### ▶ 4 AV Inputs: 3 Universal and 1 SD/HD-SDI

##### • Input #1, 2 & Aux.

- HD-YUV: HD-YCrCb - 0.7Vp/p + Sync. 3 level 75 Ohms or YCrCb; RGsB, RGBS: 0.7Vp/p + Sync. 0.3V - 75 Ohms
- S.Video: YC - 0.7Vp/p + Sync. 0.3V - 75 ohms
- NTSC/PAL: Composite Video - 0.7Vp/p + Sync. 0.3V - 75 Ohms
- Computer: RGBHV, RGBS and RGsB (PC, Mac, Wkst) (130kHz max)
- DVI Digital Fpx MAX=165MHz TMDs 100 Ohms (input #2 only)
- Audio: unbalanced stereo, 44kOhms/+18dBu max, adjustable level trim per input
- Digital Audio SPDIF (fs 48kHz@20/24 bits)

##### • Input #3

- HD-SDI YUV 4:2:2 - 10 bits - 1.5 Gb/s - or SDI 270 Mb/s - 75 Ohms

#### ▶ Outputs

- **HD-SDI YUV** 4:2:2 - 10 bits - 1.5 Gb/s - or SDI 270 Mb/s - 75 Ohms with embedded audio (fs=48kHz@20/24 bit)
- **HD-YUV:** HD-YCrCb - 0.7Vp/p + Sync. 3 level - 75 Ohms or YCrCb; RGsB, RGBS: 0.7Vp/p + Sync. 0.3V - 75 Ohms
- **S.Video:** YC - 0.7Vp/p + Sync. 0.3V - 75 ohms
- **NTSC/PAL:** Composite Video - 0.7Vp/p + Sync. 0.3V - 75 Ohms
- **RGBHV, RGBS, RGsB** (0.7Vp/p-75ohms + Sync TTL or Analog)

- **DVI:** Digital FpxMAX=165MHz
- Stereo audio analog: Vo=+18dBu, Zo=300 Ohms - G= - to + 6dB Master Level
- Digital Audio SPDIF (fs 48kHz@20/24 bits)

#### ▶ Genlock

- Black Burst Pal or NTSC: 1 Vp/p
- HD Black - 3 Level sync

#### ▶ User Control and connectors - front panel

- Direct access to input selection, image freeze, auto centering,
- image processing
- Intuitive LCD display menu for easy set up
- Fluorescent display for enhanced viewability
- Aux. input connectors:
  - 2 x mini-DIN 4 for S.Video In and loop through
  - 6 x RCA for TV/HDTV In and loop through
  - 2 x HD15F for PC/TV/HDTV In and loop through
  - 2 x RCA for stereo audio in

#### ▶ Connectors - rear panel

- **Input 1 connectors:**
  - 1 x HD15 for Computer/TV/HDTV In
  - 4 x BNC for TV/HDTV In
  - 1 x HD15 for loop through
  - 2 x RCA (stereo audio in)

#### • Input 2 connectors:

- 1 x DVI-I for digital and analog Computer/TV/HDTV
- 1 x DVI-I for loop through
- 3.5mm jack for stereo audio in

#### • Input 3 connectors:

- 1 x BNC for SDI/HD-SDI
- 1 x BNC for loop through
- 3.5mm jack for stereo audio in

#### • Output connectors:

- 1 x HD15
- 1 x BNC (PAL/NTSC)
- 1 x BNC (SDI/HD-SDI)
- 1 x 4 pin mini DIN
- 1 x DVI-I digital and analog
- 2 x RCA (stereo audio)

#### • Miscellaneous:

- 1 x BNC for Genlock input
- 1 x BNC for Genlock output loop
- 1 x DB9 for RS232 control and upgrade
- 1 x RJ45 for TCP/IP, optional
- 2 x RCA for Digital Audio In & Out

#### Dimensions

- ▶ 1U, 19"
- ▶ D 10.4' x W 19" x H 1.74"
- ▶ D 265 mm x W 482 mm x H 44 mm

#### Weight

- ▶ 3.3 kg/7.3 lbs

#### Power Supply

Internal, universal, automatic, 100-250 V;  
50/60 Hz; 40W(UL, CSA, GS, CE) ON/OFF  
AC Main Switch

#### Supplied with

- ▶ 1 x Power supply cord
- ▶ 1 x Remote Control Software (RCS) (PC only)\*
- ▶ 1 x User Manual\*



\* All User Manuals and Quick Start Guides are also available on [www.analogway.com](http://www.analogway.com)

**i** Specifications subject to change without prior notice

All technical specifications are available on our website