

## **Down Converters**

**AVOTETASK** Models 1T-C2-100, 1T-C2-150



1T-C2-100 Down Converter is based on TV One's exclusive CORIO®2 technology and provides high quality scan conversion from Computer or HDTV signals to standard video formats in a compact package. It handles any computer resolution up to 2048x2048 at any vertical refresh rate and all HDTV resolutions up to 1080p. A wide variety of computer signal formats are available to support PC, Mac and Workstation formats. Video outputs are switchable between NTSC and PAL and are simultaneously provided in Composite and YC. A PC loop-thru is also provided.

Our exclusive AutoSet feature takes the hassle out of setup by automatically sizing and positioning the computer image to fit exactly on the video screen. All settings are stored in non-volatile memory and are retained even when power is switched off. All the functions can be controlled via the front panel Push Buttons, an Infrared Remote Control Unit or an RS-232 connection. The CORIOtools Suite integrates fully with the unit. A Windows Control Panel is provided and most third party control systems interface directly with the entire C2 range of products. An On-Screen Display is available to assist in setup.

Variable Zoom to 10X allows you to enlarge any part of the computer screen to fill the entire video screen and position controls allow you to move around to any area desired. Variable Shrink to as little as 10% allows fitting the image onto most displays. The advanced Digital Flicker Elimination circuitry and high sampling rate insures crisp, clear images, while full bandwidth chroma sampling ensures faithfully reproduced, high resolution colors. The 1T-C2-100 is housed in a compact desktop case and a single/dual rackmount kit is available as an option.

1T-C2-150 Down Converter PLUS has all the functions and features of the 1T-C2-100 and adds a wide variety of additional capabilities, such as Genlock, Chromakey and Lumakey. The **Key Mode** allows computer graphics to be keyed over an external Composite or YC signal. The keyed image may be faded in and out. Due to the 4:4:4 sampling format, precise keying at the pixel level can be achieved. The Mix Mode permits glitch-free mixing between the computer image and external video. The PIP Mode allows the computer input to be inset in a window over either of the video inputs.

The Genlock feature ensures precise synchronization of the incoming signals by providing a wide Subcarrier lock range with Subcarrier phase adjustment.



## Kev Features of the 1T-C2-100

- Automatic Incoming Resolution Detection
- Computer Input via HD-15 with Loop-thru
- Computer Resolutions to 2048x2048
- HDTV Resolutions to 1080p
- AutoSet® Automatic picture sizing
- Multiple Worldwide Television Standards
- Two CV and Two YC (S-Video) Outputs
- RS-232 Interface
- Windows Control Panel included
- CORIOtools Suite compatible
- Variable Image Zoom to 10X and Shrink to 10%
- Optional IR Remote Control
- Optional Single/Dual Rackmount Kit

## Additional Features of the 1T-C2-150

- Genlock with Subcarrier Phase Adjustment
- Chromakey and Lumakey
- Mix and PIP
- CV and YC (S-Video) Input

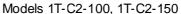


This symbol on a product indicates that it is powered by CORIO®2 technology, the most flexible video processing engine now available.

Unlike most manufacturers, who use third party chipsets to provide video conversion, TV One has developed its own proprietary technology known as CORIO®2. This frees TV One products from the constraints imposed by third parties and results in an unsurpassed degree of flexibility. Products based on third party chipsets have a feature set frozen at the introduction of the product. Since the CORIO®2 video processing engine is entirely firmware based, it can be upgraded at any time by downloading the latest firmware version form the support website and flash upgrading the unit in the field. This enables new features to be added to units many years after the initial purchase. This "obsolescence insurance" means that a CORIO®2 based product can always be upgraded to the latest version of that model.











Computer Input

Signal Type - Analog Sync

Termination

Connectors

R-G-B Level Range

Scan Rate Detection PC Resolutions **HDTV** Resolutions

Vertical Refresh Rate Max Horiz Scan Rate

Computer Compatibility **Video Inputs** 

Composite Video

YC (S-Video) **Video Outputs** 

Television Standards

Impedance Composite Video YC (S-Video)

Computer Loop-thru

General

Size and Position

Image Size Image Freeze

Settings Memory Zoom Range Shrink Range

Image Mirroring Horizontal Filtering

Conversion Technology

Color Resolution Sampling Rate

Digital Sampling

Firmware Memory

Video Encoder

Video Adjustments

MONETASK

1T-C2-150

RGBHV. RGBS. RGsB. YPbPr TTL Level,  $10K\Omega$ , Pos or Neg Auto-terminating into  $75\Omega$ 

1x HD-15 Female with Loop-thru

0.5-2.0 Vp-p Automatic

Any up to 2048x2048 Any up to 1080p Any to 250Hz

150KHz

PC, Macintosh, Workstations

(1T-C2-150 Only)

1x via BNC

1x via 4-Pin Mini-DIN Connector

NTSC, PAL, PAL-M, PAL-N, SECAM

2x via BNC (1x on 1T-C2-150) 2x via 4-PIN (1x on 1T-C2-150) 1x via HD-15 Female Connector

Automatic via AutoSet or Manual

User-Definable Presets

One Video Frame Non-Volatile

Variable to 10X Zoom Variable to 10%

Horizontal and/or Vertical

Full Digital

Proprietary - CORIO®2 24-bit (16.8 Million Colors)

108MHz

24-bit, 4:4:4 format

Flash, Upgradeable via RS-232

8-bit Digital R-G-B Levels **Operational Modes** 

Kev Mix PIP

Genlock Adjustments

Subcarrier Lock Range

Subcarrier Phase

Local RS-232 Interface Infrared Remote

Warranty Limited Warranty

Regulatory Compliance

Main Units

Power Supplies Mechanical

Size (H-W-D) Weight (Net)

**Environmental** Operating Temperature Operating Humidity Storage Temperature

Storage Humidity Power Requirement

External Power Supply

Accessories Included 1x Operations Manual 1x Power Adapter

**Product Item Numbers** 

1T-C2-100 1T-C2-150

**Optional Accessories** 

IRC-5 RM-230 (1T-C2-150)

Chromakey or Lumakey Mix PC to/from Video

Variable Window Size & Position

(1T-C2-150)

+/- 200Hz for NTSC Operation (+/- 250Hz for PAL Operation)

**Control Methods** 

via Front Panel Buttons & OSD via D9 Female Connector via IRC-5 Remote Unit

5 Years Parts and Labor

FCC, CE, RoHS

UL, CUL, CE, PSE, GS, RoHS

30x200x90mm(1.18"x7.87"x3.54") 0.52 kg (1.14 lbs)

0° to +50° C (+32° to +122° F) 10% to 85%, Non-condensing -10° to +70° C (+14° to +158° F) 10% to 85%, Non-condensing

12VDC@1A

1T-C2-100 Series US, UK, Euro or AU

Down Converter

Down Converter PLUS

Infrared Remote Control Single/Dual Rackmount Kit

## **Panel Drawings**



