



Instruction Manual

**1T-DV1394-A70
DV-Analog Converter**

Table Of Contents

1.0	Introduction	4
2.0	Specifications	5
3.0	Package Contents	7
4.0	Connecting the Hardware	7
5.0	Operating The Unit	8
6.0	Troubleshooting	11
7.0	Limited Warranty	12
8.0	Regulatory Compliance	13
9.0	Contact Information	13

1.0 INTRODUCTION

Thanks for purchasing this DV-1394-A70 Analog to DV Converter from TV One. The DV-1394-A70 is designed to facilitate the transfer of source video such as Hi8, SVHS, DVD, etc. to the DV format for storage on your PC. Our Video conversion products have been serving the industry for many years. TV One offers a full line of high quality Standards Converters, Up-Converters, Scan Converters, Distribution Amplifiers, Routing Switchers, Time Base Correctors, PIP Display Devices, Quad Splitters and Video Conditioners. RF Modulators, Digital Audio Converters, LCD Monitors/Receivers and Multimedia Cables round out the product offerings.

1.1 Liability Statement

Every effort has been made to ensure that this product is free of errors. TV One cannot be held liable for the use of this hardware or any direct or indirect consequential damages arising from its use. It is the responsibility of the user of the hardware to check that it is suitable for his/her requirements and that it is installed correctly. All rights reserved. No parts of this manual may be reproduced or transmitted by any form or means electronic or mechanical, including photocopying, recording or by any information storage or retrieval system without the written consent of the publisher.

TV One reserves the right to revise any of its hardware and software following its policy to modify and/or improve its products where necessary or desirable. This statement does not affect the legal rights of the user in any way.

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1.2 FEATURES

The DV-1394-A70 Analog to DV Converter has many features that enable it to perform in a superior manner. Among those features you will find:

- Bi-directional Conversion of DV to/from Analog
- I/O: Composite, S-Video, YCbCr, DV, Stereo
- Audio Support 48Khz and 32Khz
- Digital Compatible: Firewire, DV, DV-CAM, I-Link
- PAL-NTSC Selectable

2.0 SPECIFICATIONS

2.1 General Requirements

Before installing the DV-1394-A70, please make sure your system meets the following requirements:

- Windows: Minimum Intel Pentium II 450MHz/compatible processor: 400 MHz or faster.
- Windows: Windows 2000/ ME / XP with DirectX 9.0 (or higher) installed.
- Minimum 64MB RAM.
- CD-ROM drive.
- Minimum 8 Mbytes hard disk capacity for installing the drivers.
- VGA Card: with capability of displaying Hi-Colors at least and direct draw support.
- Sound Card: full duplex 16-bit sound blaster compatible.
- Video Input Devices: S-Video, Composite, YCbCr, or DV input.

Note: The DV-1394-A70 connects to any S-video, Composite, YCbCr and DV video sources e.g. VCR, video camera, or camcorder.

- CD-R/W drive or DVD ROM (option for recording CD).

2.2 Specific Information

Video Inputs/Outputs

Composite Video

S-Video

YCbCr Component

IEEE-1394 DV

Impedance

Television Standards

Audio Inputs/Outputs

Unbalanced Stereo

Digital (Within DV)

General

Conversion Process

Digital Sampling

Sampling Format

Mechanical

Size (H-W-D)

Weight (Net)

Warranty

Limited Warranty

Environmental

Operating Temperature

Operating Humidity

Operating Temperature

Operating Humidity

Power Requirements

External Power

Regulatory Approvals

Converter Unit

Power Supply

Accessories Included

1x Firewire Cable

1x AC Power Adapter

1x Operations Manual CD

via BNC Connectors

via 4-Pin Mini-DIN Connectors

via 3 BNC Connectors

via 4 or 6 Pin or DV Connector

75Ω

NTSC and PAL

via 2 RCA Connectors (R/L)

48Khz and 32Khz

Bi-directional, Digital

Y=8bits, R-Y=8Bits, B-Y=8Bits

PAL: 4:2:0, NTSC 4:1:1

1.6"x7.6"x5.1" (40x192x130mm)

2.4 lbs (1.1kg)

2 years Parts and Labor

+5° to +45° C (+1° to +113° F)

10% to 85%, Non-condensing

-10° to +70° C (+14° to +153° F)

10% to 85%, Non-condensing

5VDC@2.0A - Locking DC Connector

FCC, CE

UL, CE, CSA

6' (2m) 6-Pin to 6-Pin DV

US, UK or Euro Type

3.0 CHECKING PACKAGE CONTENTS

Before attempting to use this unit, please check the packaging and make certain the following items are contained in the shipping carton:

- DV-1394-A70 DV – Analog Converter
- 1 x 1394 DV Cable (6 pin to 6 pin)
- 1 x Instruction Manual CD
- 115 VAC to +12 VDC Power Adapter

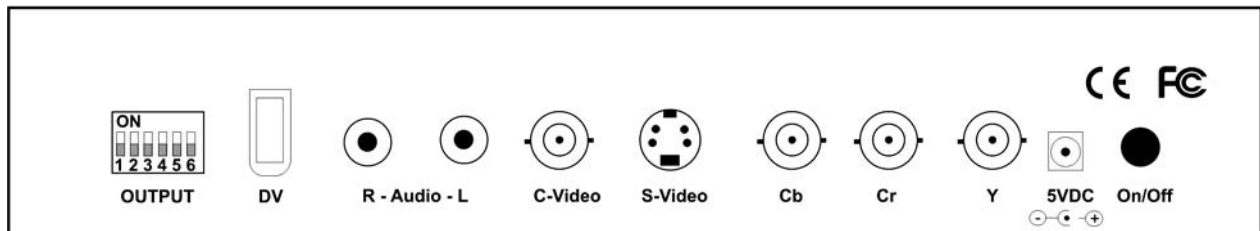
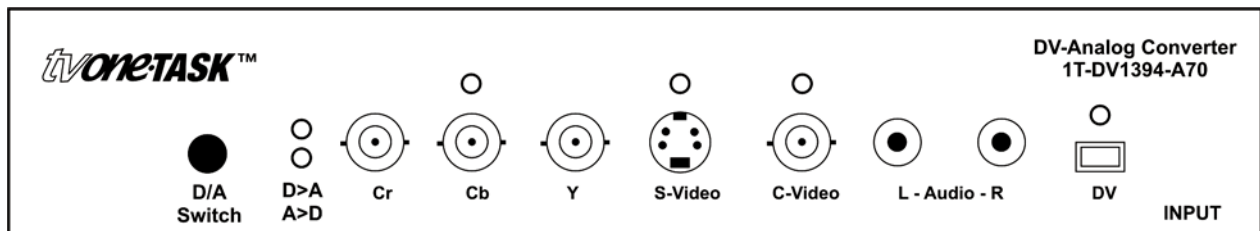
Note: Please retain the original packing material should the need ever arise to return the unit. If you find any items are missing, contact your reseller or TV One immediately. Have the Model Number, Serial Number and Invoice available for reference when you call.

4.0 CONNECTING THE HARDWARE

Before using your DV-1394-A70 with PC, you must have already installed a 1394 card on your computer.

Connecting External Devices

Connect your video device(s) to the corresponding input / output connectors of the DV-1394-A70, according to the following layout picture below and the connector table on page 6.



Make certain that you use high quality, undamaged cables when you connect the unit to the source and destination devices. After connecting the signal leads, connect the AC to DC adaptor, first connecting the adapter's DC cable to the DV-1394-A70 and then connecting the adaptor to AC power.

5.0 OPERATING THE UNIT

Once you have connected the DV-1394-A70 as described above, you must be certain that the inputs are being fed appropriate signals and are not suffering from signal loss due to cabling problems or problems with the source device.

If your connections are all proper, press the power button on the front of the DV-1394-A70.

5.1 Default Condition and Selecting Inputs

When you first apply power to the DV-1394-A70, the unit is in the Decode Mode, meaning it is expecting a DV input. If you want to encode Analog Video to the DV format, press the front panel button labeled 'D/A Switch' once. This action will force the unit to perform an auto-detect on the analog inputs. The checking for valid inputs is done in the following order: Composite Video, S-Video and YCbCr. (You can also step through the various input types by pressing the 'DA Switch' to force a selection after the auto-detect function has run. Doing so will sequentially step through DV, CV, S-V and YCbCr.)

Note: If you intend to use only the auto-detect function, you'll need to remove the sources you do not want that are upstream of the one you do want. For example, if you want to encode S-Video into DV video, you would remove the Composite Video source from the input making the S-Video signal the first valid signal detected by the DV-1394-A70.

5.2 DIP Switch Settings

On the rear on the unit, you'll find four active DIP Switches. The selections are:

SW1: OFF = Auto-Detect Off, Default NTSC, **ON** = Auto-Detect NTSC or PAL

SW2 + SW3: PC Operating System

SW2	SW3	Setting
OFF	OFF	DV Camcorder
OFF	On	WIN 2K/WIN XP
On	Off	WIN 98/WIN ME

SW4: = Off 7.5 IRE, **On** = 0 IRE Setup (NTSC Only)

If you have a clean input and the input is a valid format, the unit should begin conversion of the signal as soon as you have the proper selections made. No adjustments are required to enable signal conversion beyond those explained above.

5.3 Hardware Checkout

Follow the instructions below to install and checkout the hardware.

5.3.1 Hardware Operation Verification

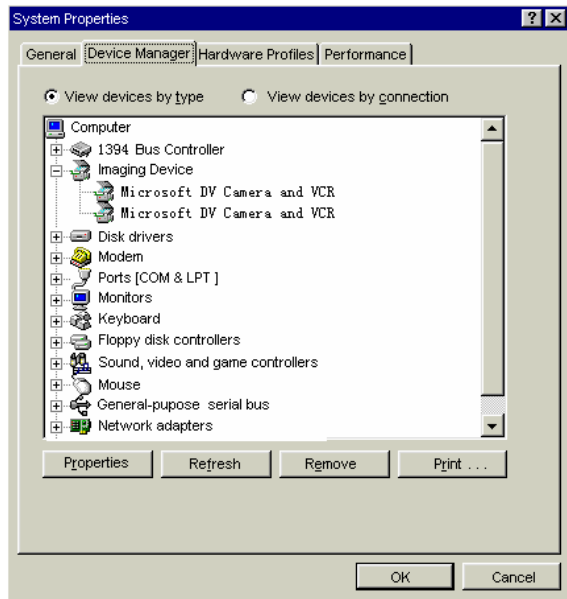
- Connect the DV-1394-A70's A/C Power adapter and press the power button.
- Connect the 6 Pin 1394 cable between the DV-1394-A70 and computer or camcorder.

Note: Connect directly to the 1394 Host port. Connecting via a 1394 Hub or Repeater is not recommended.

- WinXP and Win2000 will automatically recognize the device and install drivers. (WinME and Win98SE may ask for drivers from the Windows CD.)
- Once the device drivers are installed, the DV-1394-A70 will appear under Windows Device manager as an Imaging Device.
- Connect Audio/Video cables between your video devices and DV-1394-A70.

Checking DV-1394-A70 Connection

After connecting all the devices, power on computer, then the DV-1394-A70 card and camcorder. Windows will auto-detect new devices, and two new "**Imaging Device**" will be added as "**Microsoft DV Camera and VCR**". One is the DV-1394-A70 and the other is the camcorder. Please refer to the following picture:



Note: The DV-1394-A70 and the camcorder can be detected only when they are powered on. If powered down, system will delete them automatically.

6.0 TROUBLESHOOTING

If you experience a 'no signal' condition with the DV-1394-A70's outputs, first make certain that the signal being fed to its inputs is acceptable.

Disconnect the cables from the DV-1394-A70's inputs and connect them directly to an appropriate monitoring device. If you do not see or hear a signal the problem may well be the signal source itself. Also check that the AC outlet you have used to power the DV-1394-A70 is actually providing power as a wall switch often controls an AC outlet.

The second most common problem is forcing the unit to believe that a signal is one type of format when, in reality, it is another. For this reason, we recommend that you allow the DV-1394-A70 to auto-detect the input signal to make certain the unit can do a proper conversion.

Another problem with the DV-1394-A70 revolves around the cables. Inspect the cables for loose connectors or cable damage such as crushed cables or cables with cuts or nicks. Replace any cable exhibiting these problems.

You also must use the highest quality cables if you want to achieve the best results. Poor quality cables will cause poor quality signals.

After trying the above suggestions should the problem still persist, contact your dealer for additional suggestions before contacting TV One. Should the dealer's technical personnel be unable to assist you, contact TV One via our parent company's support website: **<http://tvone.crmdesk.com>**. Create a technical support request on the site and our support team will respond within a short period of time.

7.0 LIMITED WARRANTY

LIMITED WARRANTY – With the exceptions noted in the next paragraph, TV One warrants the original purchaser that the equipment it manufactures or sells will be free from defects in materials and workmanship for a period of one year from the date of purchase. Should this product, in TV One's opinion, prove defective within this warranty period, TV One, at its option, will repair or replace this product without charge. Any defective parts replaced become the property of TV One. This warranty does not apply to those products which have been damaged due to accident, unauthorized alterations, improper repair, modifications, inadequate maintenance and care, or use in any manner for which the product was not originally intended.

Items integrated into TV One products that are made by other manufacturers, notably computer hard drives and liquid crystal display panels, are limited to the term of the warranty offered by the respective manufacturers. Such specific warranties are available upon request to TV One.

If repairs are necessary under this warranty policy, the original purchaser must obtain a Return Authorization Number from TV One and return the product to a location designated by TV One, freight prepaid. After repairs are complete, the product will be returned, freight prepaid.

LIMITATIONS - All products sold are "as is" and the above Limited Warranty is in lieu of all other warranties for this product, expressed or implied, and is strictly limited to two years from the date of purchase. TV One assumes no liability to distributors, resellers or end-users or any third parties for any loss of use, revenue or profit.

TV One makes no other representation of warranty as to fitness for the purpose or merchantability or otherwise in respect of any of the products sold. The liability of TV One with respect to any defective products will be limited to the repair or replacement of such products. In no event shall TV One be responsible or liable for any damage arising from the use of such defective products whether such damages be direct, indirect, consequential or otherwise, and whether such damages are incurred by the reseller, end-user or any third party.

8.0 REGULATORY COMPLIANCE

This product complies with the relevant standards for CE and FCC approval.

The Power Adaptor/Supply has been tested for compliance with: UL, CSA and CE standards.

9.0 CONTACT INFORMATION

Should you have questions or require assistance with this product in areas not covered by this manual, please contact TV One at the appropriate location shown below:

TV One USA

1350 Jamike Drive
Erlanger, KY 41018
USA
Tel 800-721-4044
Fax 859-282-8225
sales@tvone.com
www.tvone.com

TV One Europe

Continental Approach
Westwood Industrial Estate
Margate, Kent CT9 4JG, UK
Tel +44 (0)1843 873311
Fax +44 (0)1843 873312
sales.europe@tvone.com
www.tvone.co.uk

TV One Latin America

2790 NW 79 Ave
Miami, FL 33122
USA
Tel 305-418-9305
Fax 305-418-3096
sales.latinoamerica@tvone.com
www.tvonela.com

TV One Mercosur

Honduras 5849, 2nd Floor, Office C
(C1414BNI) Capital Federal
Buenos Aires, Argentina
Tel +54 11 4771-5570
Fax +54 11 4771-5570
sales.mercosur@tvone.com
www.tvonela.com

TV One Asia

10F, NO.34, Sec. 2
San-Min Rd, Panchiao City
Taipei Hsien 220
Taiwan R.O.C.
Tel +886 2 8951-0674
Fax +886 2 8951-0675
sales.asia@tvone.com
www.tvoneasia.com

TV One China

Rm. A 17C,
Regalia Building No.29,
Xiangcheng Rd.
Pudong, Shanghai
China (200122)
Tel +86 21 5830-2960
Fax +86 21 5081-9096
sales.china@tvone.com
www.tvonechina.com

NOTES



We Provide Solutions

TV One USA

1350 Jamike Drive
Erlanger, KY 41018
USA
Tel 800-721-4044
Fax 859-282-8225
sales@tvone.com
www.tvone.com

TV One Europe

Continental Approach
Westwood Industrial Estate
Margate, Kent CT9 4JG, UK
Tel +44 (0)1843 873311
Fax +44 (0)1843 873312
sales.europe@tvone.com
www.tvone.co.uk

TV One Latin America

2790 NW 79 Ave
Miami, FL 33122
USA
Tel 305-418-9305
Fax 305-418-3096
sales.latinamerica@tvone.com
www.tvonela.com

TV One Mercosur

Honduras 5849, 2nd Floor, Office C
(C1414BNI) Capital Federal
Buenos Aires, Argentina
Tel +54 11 4771-5570
Fax +54 11 4771-5570
sales.mercosur@tvone.com
www.tvonela.com

TV One Asia

10F, NO.34, Sec. 2
San-Min Rd, Panchiao City
Taipei Hsien 220
Taiwan R.O.C.
Tel +886 2 8951-0674
Fax +886 2 8951-0675
sales.asia@tvone.com
www.tvoneasia.com

TV One China

Rm. A 17C,
Regalia Building No.29,
Xiangcheng Rd.
Pudong, Shanghai
China (200122)
Tel +86 21 5830-2960
Fax +86 21 5081-9096
sales.china@tvone.com
www.tvonechina.com