

DV to Analog Converter

DAC-6



USER MANUAL

[Http://www.datavideo-tek.com](http://www.datavideo-tek.com)

REV: 011105

Warnings and Precautions

1. Read all of these warnings and save them for later reference.
2. Follow all warnings and instructions marked on this unit.
3. Unplug this unit from the wall outlet before cleaning. Do not use liquid or aerosol cleaners. Use a damp cloth for cleaning.
4. Do not use this unit in or near water.
5. Do not place this unit on an unstable cart, stand, or table. The unit may fall, causing serious damage.
6. Slots and openings on the cabinet top, back, and bottom are provided for ventilation. To ensure safe and reliable operation of this unit, and to protect it from overheating, do not block or cover these openings. Do not place this unit on a bed, sofa, rug, or similar surface, as the ventilation openings on the bottom of the cabinet will be blocked. This unit should never be placed near or over a heat register or radiator. This unit should not be placed in a built-in installation unless proper ventilation is provided.
7. This product should only be operated from the type of power source indicated on the marking label of the AC adapter. If you are not sure of the type of power available, consult your Datavideo dealer or your local power company.

8. Do not allow anything to rest on the power cord. Do not locate this unit where the power cord will be walked on, rolled over, or otherwise stressed.
9. If an extension cord must be used with this unit, make sure that the total of the ampere ratings on the products plugged into the extension cord do not exceed the extension cord's rating.
10. Make sure that the total amperes of all the units that are plugged into a single wall outlet do not exceed 15 amperes.
11. Never push objects of any kind into this unit through the cabinet ventilation slots, as they may touch dangerous voltage points or short out parts that could result in risk of fire or electric shock. Never spill liquid of any kind onto or into this unit.
12. Except as specifically explained elsewhere in this manual, do not attempt to service this product yourself. Opening or removing covers that are marked "Do Not Remove" may expose you to dangerous voltage points or other risks, and will void your warranty. Refer all service issues to qualified service personnel.
13. Unplug this product from the wall outlet and refer to qualified service personnel under the following conditions:
 - a. When the power cord is damaged or frayed;
 - b. When liquid has spilled into the unit;
 - c. When the product has been exposed to rain or water;
 - d. When the product does not operate normally under normal operating conditions. Adjust only those controls that are covered by the operating instructions in this manual; improper adjustment of other controls may result in damage to the unit and may often require extensive work by a qualified technician to restore the unit to normal operation;
 - e. When the product has been dropped or the cabinet has been damaged;
 - f. When the product exhibits a distinct change in performance, indicating a need for service.

For EU Customers only - WEEE Marking.



This symbol on the product indicates that it will not be treated as household waste. It must be handed over to the applicable take-back scheme for the recycling of electrical and electronic equipment. For more detailed information about the recycling of this product, please contact your local Datavideo office.

Table of Contents

WHAT'S IN THE BOX?	3
INTRODUCTION	5
FEATURE	6
INTERFACE	7
DIP SWITCH SET UP	8
INSTALLATION	9
Connect with DV camcorder	9
Connect with SE-500	9
Connect with Betacam	10
SAMPLE APPLICATION DIAGRAM	11
DAC-6 and SE-500 application	11
SPECIFICATION	12
PRODUCT REGISTRATION	13
SERVICE & SUPPORT	14

What's in the box?

1. DAC-6 DV to analog converter
2. BNC to BNC 1.2m cable x 3
3. 2 RCA to 2 RCA cable x 1
4. Y/C S-video to S-video cable 1.2m cable x 1
5. IEEE1394 6pin to 6pin 1.8m cable x 1
6. Switching power adapter
7. User Manual

Introduction

Thank you for purchasing the DAC-6. This is stand alone DV to Analog converter, and it can also be used as an accessory for the SE-500. In order to bring out the maximum performance of this software, we recommend that you spend some time reading this manual carefully.

Product Overview

The DAC-6 is especially designed for converting DV25 video signal to Analog video signal. With the compact size and solid housing design, DC12V input, it is convenient for portable and outdoor use. With the DAC 6, you can plug in a DV25 video source, and get Composite, Y/C, and Component video signals out, all three are available simultaneously.

For example, you could connect a DV camcorder or similar device via a IEEE1394 DV25 cable to the DAC-6 and connect the other end to a Betacam VTR or Y/C input video switcher, such as Datavideo SE-500.

Features

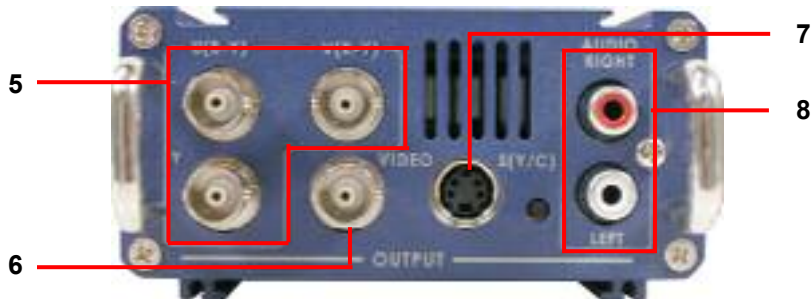
- 6pin IEEE1394 DV input and by-pass out
- Composite, Y/C, and Component output
- 12 bit & 16 bit auto recognition
- PAL & NTSC compatible
- PC and Mac compatible
- Built in Smart DV function

Interface



2 _____ 4

1. DC12V Power connector
2. Power switch
3. IEEE1394 6pin DV25 input & loop thru
4. DIP switch



5. Component output
6. Composite output
7. S-Video output
8. Stereo audio output

DIP Switch Set Up

S1. PAL or NTSC (PAL-ON, NTSC-OFF)

S2. PAL: Select DV-25 PAL 4:2:0

NTSC: 7.5 IRE / 0 IRE (0 IRE-ON, 7.5 IRE-OFF)

S1	ON	PAL	S2	ON	DV25 4:2:0
				OFF	Reserved
	OFF	NTSC	S2	ON	0 IRE
				OFF	7.5 IRE

S3. DV Locked/Unlocked Audio Mode

S3 – OFF: Locked Audio

S3 – ON: Unlocked Audio (factory default)

S4 & S5 for NTSC and PAL video system

S5	ON	S4	ON	MAC OS
			OFF	SMART DV
	OFF	S4	ON	Windows XP and Windows ME (Factory default)
			OFF	Camera Mode

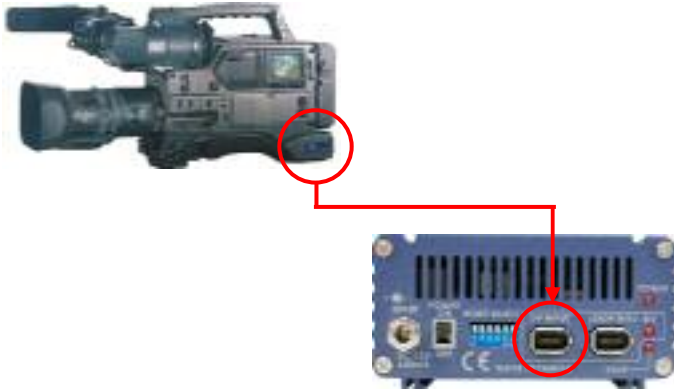
S6. Factory setting (OFF), please do not change.

***Note 1 :** Mode DIP switch (*Reboot the DAC-6 if you change a DIP Switch*)

***Note 2:** NTSC 0 IRE is most often used in Japan. 7.5 IRE is used elsewhere.

Installation

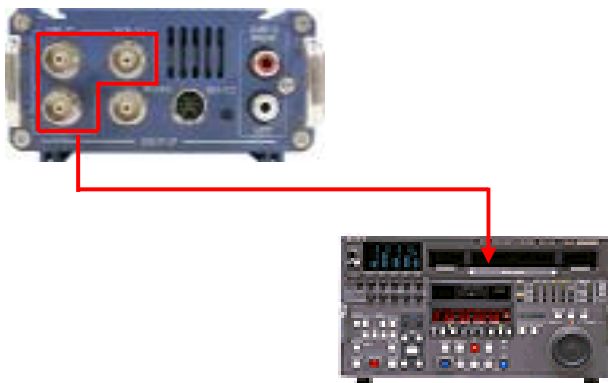
1. Plug in the power adapter, and connect to the power.
2. Connect IEEE1394 output from DV devices, such as DV camcorder, or VTR.



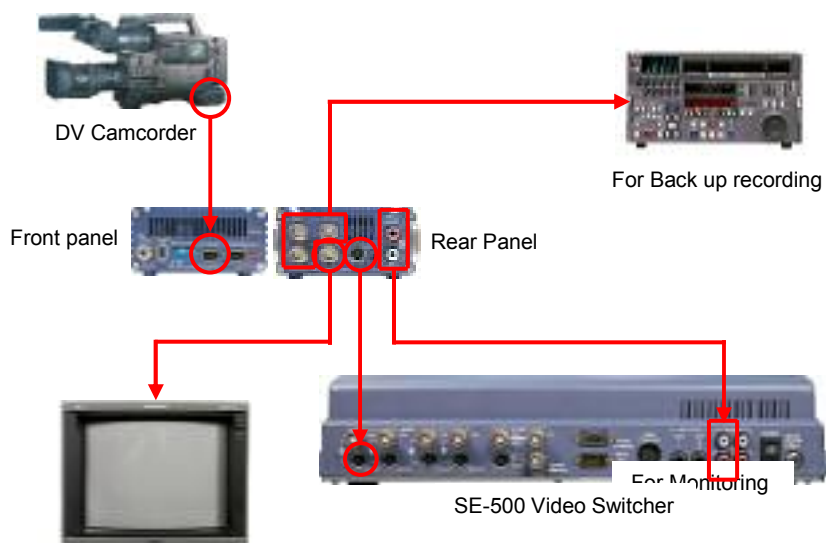
3. Connect Y/C or Composite output to SE-500.



4. You may connect YUV output to Betacam VTR, Composite or S-Video output to VCR for back up recording, or TV set for monitoring.



Sample Application Diagram



Specification

Video Formats

NTSC or PAL (Selectable by DIP switch)

Video Inputs

DV25

Video Output

1 – Component

1 – Y/C

1 – Composite

Video Bandwidth

Composite 4.6 MHz

DG, DP +/- 5%, 5 degrees

Signal/Noise Ratio:

Video > 50dB

Dimensions W x D x H

6.3" x 3.93" x 1.95"

160mm x 100mm x 49.5mm

Weight

5.36 lb, 2.5 kg

Power

Input: DC12V

Product registration

Go on line www.datavideo.info/product_reg.htm for product registration

Warranty

Datavideo warrants that the equipment it manufactures shall be free from defects in material and workmanship for a period of 12 months from the date of product purchased. If equipment fails due to such defects, Datavideo will, at its option, repair or provide a replacement for the defective part or product. Equipment that fails after the warranty period, has been operated or installed in a manner other than that specified by Datavideo, or has been subjected to abuse or modification, will be repaired for time and material charges at the Buyer's expense. This warranty does not affect your statutory rights within the Country of purchase.

Service and Support

It is our goal to make your products ownership a satisfying experience. Our supporting staff is available to assist you in setting up and operating your system. Please refer to our web site www.datavideo-tek.com for answers to common questions, support requests or contact your local office below.

Datavideo Corporation (USA)

12300-U East Washington Blvd., Whittier, CA 90606 USA
Tel: +1 562 696 2324 contactus@datavideo.us www.datavideo.us

Datavideo Technologies Europe BV

Californiedreef 26 3565 BL Utrecht, The Netherlands
Tel: +31 30 261 9656 info@datavideo.nl www.datavideo.info

Datavideo UK Limited

Unit 2 Waterside Business Park, Hadfield, Glossop, Derbyshire SK13 1BE UK
Tel: +44 1457 851000 sales@datavideo.co.uk www.datavideo.info

Datavideo Technologies Co., Ltd.

10F, 176 Jian-Yi Rd, Chung Ho City, Taipei Hsien, Taiwan 235
Tel: +886 2 8227 2888 info@datavideo.com.tw www.datavideo.com.tw

Datavideo Technologies China Co.

2F-D, 2 Lane 777, West Guangzhong Rd, Zhabei District, Shanghai, China
Tel: +86 21 5603 6599 service@datavideo.cn www.datavideo.cn

Datavideo Technologies (S) PTE Ltd.

No. 100, Lorong 23 Geylang, #01-03 D'Centennial Bldg, Singapore 388398
Tel: +65 6749 6866 info@datavideo.sg www.datavideo.info

All the trademarks are the properties of their respective owners.
Datavideo Technologies Co., Ltd. All rights reserved 2005.

P/N: 082060374E1