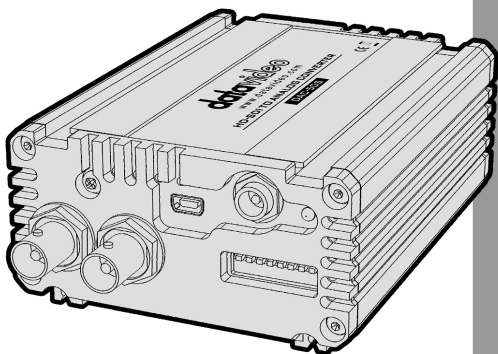


datavideo



**HD-SDI TO ANALOG
CONVERTER**

DAC-50S

Quick Start Guide

www.datavideo.com

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Disclaimer of Product and Services

The information offered in this instruction manual is intended as a guide only. At all times, Datavideo Technologies will try to give correct, complete and suitable information. However, Datavideo Technologies cannot exclude that some information in this manual, from time to time, may not be correct or may be incomplete. This manual may contain typing errors, omissions or incorrect information. Datavideo Technologies always recommend that you double check the information in this document for accuracy before making any purchase decision or using the product. Datavideo Technologies is not responsible for any omissions or errors, or for any subsequent loss or damage caused by using the information contained within this manual. Further advice on the content of this manual or on the product can be obtained by contacting your local Datavideo Office or dealer.



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.

Disposal



For EU Customers only - WEEE Marking

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

Warranty

Standard Warranty

- Datavideo equipment is guaranteed against any manufacturing defects for one year from the date of purchase.
- The original purchase invoice or other documentary evidence should be supplied at the time of any request for repair under warranty.
- Damage caused by accident, misuse, unauthorized repairs, sand, grit or water is not covered by this warranty.
- All mail or transportation costs including insurance are at the expense of the owner.
- All other claims of any nature are not covered.
- Cables & batteries are not covered under warranty.
- Warranty only valid within the country or region of purchase.
- Your statutory rights are not affected.

Two Year Warranty

All Datavideo products purchased after 01-Oct.-2008 qualify for a free one year extension to the standard Warranty, providing the product is registered with Datavideo within 30 days of purchase. For information on how to register please visit www.datavideo.com or contact your local Datavideo office or authorized Distributors

Certain parts with limited lifetime expectancy such as LCD Panels, DVD Drives and Hard Drives are only covered for the first 10,000 hours, or 1 year (whichever comes first).

Any second year warranty claims must be made to your local Datavideo office or one of its authorized Distributors before the extended warranty expires.

Packing List

Items	Description	Q'ty
1	DAC-50S Unit	1
2	Accessory List	1

Introduction

The DAC-50S converts the digital HD-SDI video input to one of the following analog output combinations:

one component (YUV) output + one composite (CV) output;
one S-Video (Y/C) output + two composite (CV) outputs,

with both of which paired with two analog audio outputs (R and L). The outputs can be easily connected to analog video monitor or deck devices such as BataCAM and VHS. The DAC-50S is also able to scale down the signal to connect analog output ports to SD analog equipment.

The DAC-50S provides an SDI Loop-thru output, which makes it suitable for more different applications. It further outputs one pair of analog audio channels selected from 16 de-embedded SDI audio channels (Selection is determined by DIP switch settings).

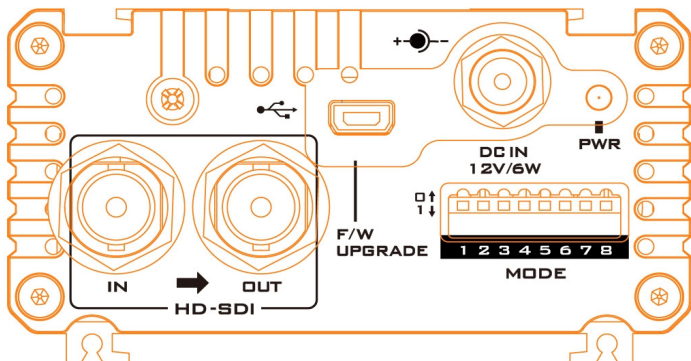
The DAC-50S is housed in a rugged aluminum frame, making it durable enough to endure even in the roughest conditions. It is also suitable for 2U rack mount kit of RMK-2 on standard rack, and fits the battery holder of MB-4.

Features

- Converts 3G/HD-SDI input to analog video and 2 unbalance analog audio channels
- Two available output combinations:
 - one analog component (YUV) output + one composite (CV) output
 - one analog S-Video (Y/C) output + two composite (CV) outputs
- Supports NTSC / PAL output
- Define de-embedded audio channels sent to analog audio outputs via a DIP switch
- Solid aluminum housing that fits the 2U rack mount kit of RMK-2 and battery holder of MB-4

Connections & Controls

Front Panel



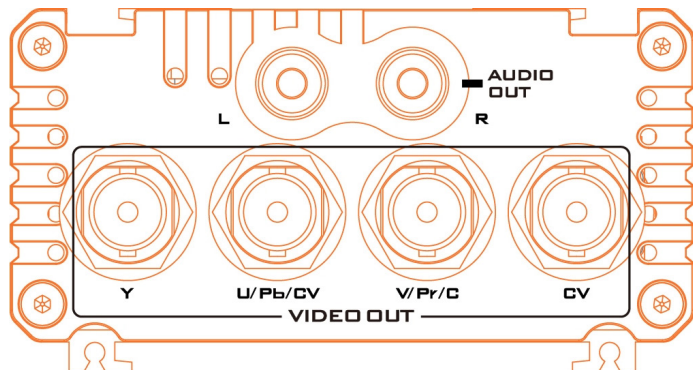
	HD-SDI Input: Connects to an HD-SDI input source
	HD-SDI Output: HD-SDI loop-thru output
	USB: Connects to any USD drive
	DC-IN: Power



DIP Switch: System I/O settings

DIP Switch Setting			DIP SW1	DIP SW2	DIP SW3	SDI Audio De-Embed
0	1					
1	SDI Audio De-Embed		0	0	0	CH1&CH2
2			0	0	1	CH3&CH4
3			0	1	0	CH5&CH6
4	7.5 IRE		0	1	1	CH7&CH8
5	16:9		1	0	0	CH9&CH10
6	YUV+CV OUT		1	0	1	CH11&CH12
7	SMPTE		1	1	0	CH13&CH14
8	Normal Operation		1	1	1	CH15&CH16
	0 IRE					
	4:3					
	Y/C+2xCV OUT					
	EBU					
	Firmware Upgrade					

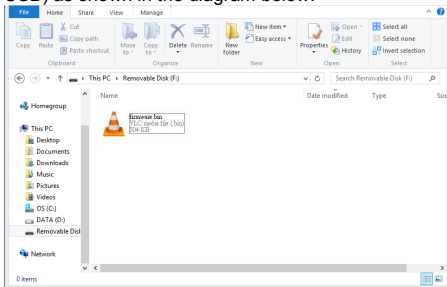
Rear Panel



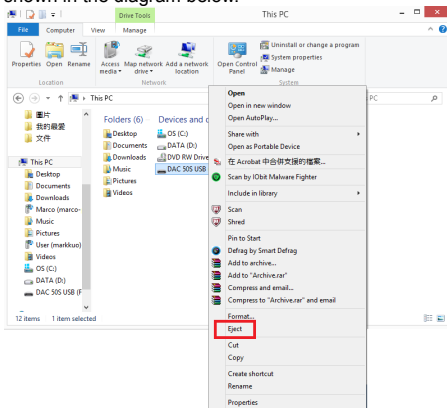
 Y	Y: Component video output port
 U/Pb/CV	U/Pb/CV: Component or Composite video output port
 V/Pr/C	V/Pr/C: Component video output port
 CV	CV: Composite video output port
 L R AUDIO OUT	Audio OUT: SDI audio de-embed

Firmware Update

1. Set DIP SW8 to ON
2. Connect DAC-50S to the PC using USB cable (DAC-50S is powered by USB port so external power source is not required)
3. USB device connection prompt will appear on the PC screen (DAC-50S USB) as shown in the diagram below.



4. Copy the new firmware.bin and replace the file in the USB device.
5. Safely remove the USB device (VP733 Datavideo Tech USB Device) as shown in the diagram below.



6. Update is complete; unplug the USB cable and set DIP SW8 to OFF.

Frequently-Asked Questions

This section describes problems that you may encounter while using DAC-50S. If you have questions, please refer to related sections and follow all the suggested solutions. If problem still exists, please contact your distributor or the service center.

No.	Problems	Solutions
1.	Serious color bar noise is seen on the output end of the DAC-50S if the SDI-IN source is a 100% color bar.	DAC-50S does not support 100% color bar and downgrading it to 75% will solve this issue.

Specifications

Input Interface	HD-SDI x 1 (BNC)
Output Interface	Component YPbPr x 3 (BNC) Composite x 2 (one is the same connector as U/Pb) (BNC) S-Video Y/C x 2 (the same connector as Y and V/Pr) (BNC) Audio L/R x 2 (RCA) HD-SDI loop-through x 1 (BNC)
Input Format	1080p 50/59.94 Hz 1080i 50/59.94 Hz 720p 50/59.94 Hz
Output Format	625/25 PAL, 525/29.97 NTSC
F/W Upgrade	mini USB x 1
DIP Switches	8-PIN DIP Switch 1: SDI audio de-embed 2: SDI audio de-embed 3: SDI audio de-embed 4: IRE (7.5 IRE & 0 IRE) 5: Aspect Ratio (16:9 & 4:3) 6: Video Output (YUV + CV OUT or Y/C + TWO CV OUT) 7. Audio Level (SMPTE & EBU) 8. Firmware Upgrade
Power	Output DC 12V / 0.5A (6W)

Notes

Notes

Notes

Service & 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.com for answers to common questions, support requests or contact your local office below.

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www.datavideo.com/Converters/DAC-50S

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