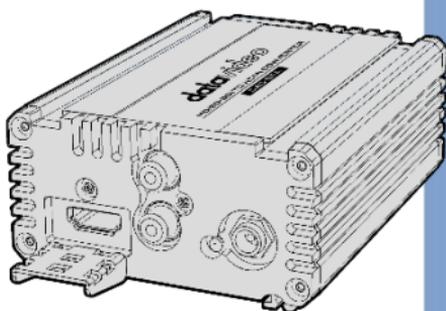


# datavideo



SDI TO HDMI  
CONVERTER  
**DAC-8PA**  
**Instruction Manual**

[www.datavideo.com](http://www.datavideo.com)

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**Disclaimer of Product & 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.

# FCC Compliance Statement

This device complies with part 15 of the FCC rules. Operation is subject to the following two conditions:

- (1) This device may not cause harmful interference, and
- (2) This device must accept any interference received, including interference that may cause undesired operation.

## 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 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.

## **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.
- The product warranty period begins on the purchase date. If the purchase date is unknown, the product warranty period begins on the thirtieth day after shipment from a Datavideo office.
- All non-Datavideo manufactured products (product without Datavideo logo) have only one year warranty from the date of purchase.
- Damage caused by accident, misuse, unauthorized repairs, sand, grit or water is not covered under warranty.
- Viruses and malware infections on the computer systems are not covered under warranty.
- Any errors that are caused by unauthorized third-party software installations, which are not required by our computer systems, are not covered under warranty.
- All mail or transportation costs including insurance are at the expense of the owner.
- All other claims of any nature are not covered.

- All accessories including headphones, cables, batteries, metal parts, housing, cable reel and consumable parts are not covered under warranty.
- Warranty only valid in the country or region of purchase.
- Your statutory rights are not affected.

## Three Year Warranty

- All Datavideo products purchased after July 1st, 2017 qualify for a free two years extension to the standard warranty, providing the product is registered with Datavideo **within 30** days of purchase.
- Certain parts with limited lifetime expectancy such as LCD panels, DVD drives, Hard Drive, Solid State Drive, SD Card, USB Thumb Drive, Lighting, Non-PCIe Card and third party provided PC components are covered for 1 year.
- The three-year warranty must be registered on Datavideo's official website or with your local Datavideo office or one of its authorized distributors within 30 days of purchase.



## Disposal



### For EU Customers only - WEEE Marking

This symbol on the product or on its packaging indicates that this product must not be disposed of with your other household waste. Instead, it is your responsibility to dispose of your waste equipment by handing it over to a designated collection point for the recycling of waste electrical and electronic equipment. The separate collection and recycling of your waste equipment at the time of disposal will help to conserve natural resources and ensure that it is recycled in a manner that protects human health and the environment. For more information about where you can drop off your waste equipment for recycling, please contact your local city office, your household waste disposal service or the shop where you purchased the product.



**CE Marking** is the symbol as shown on the left of this page. The letters "**CE**" are the abbreviation of French phrase "Conformité Européene" which literally means "European Conformity". The term initially used was "EC Mark" and it was officially replaced by "CE Marking" in the Directive 93/68/EEC in 1993. "CE Marking" is now used in all EU official documents.

# 1. Introduction

The DAC-8PA SDI to HDMI Converter allows users to convert the SDI signal up to 1080p50/60 to the HDMI signal for easy connecting to the devices with HDMI signal and the professional SDI video devices.

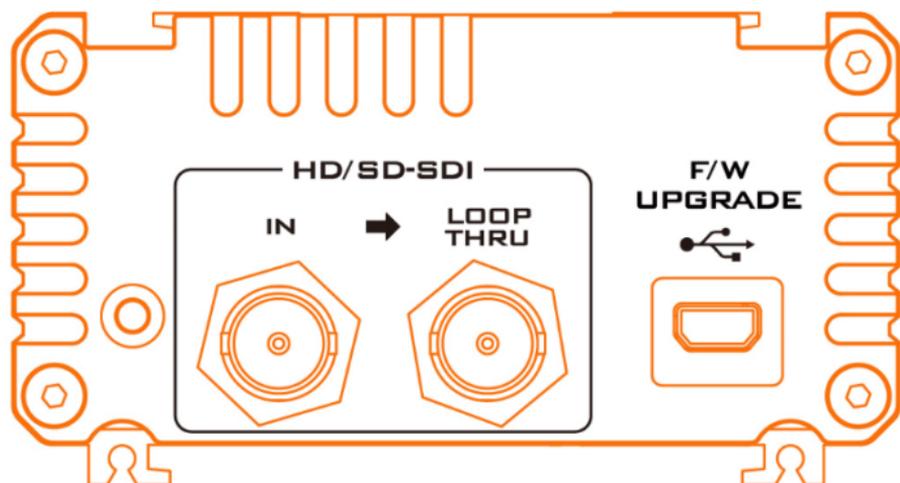
The DAC-8PA provides one SDI input, one SDI output and one HDMI output. Moreover, the audio signal can be de-embedded from the SDI input signal for the audio source of the analog audio outputs.

The DAC-8PA HD/SD-SDI to HDMI converter is suitable for many broadcasting and professional AV applications.

## Features

- Supports 1080p50/60 Input Signal
- Supports Re-Clocking Function
- Supports Automatic Input Signal Detection
- Supports HDMI Deep Color
- Provides one SDI loop-thru Output and one HDMI Output Interface
- Supports Stereo Audio Output
- Aluminum appearance design which is rugged and durable

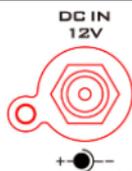
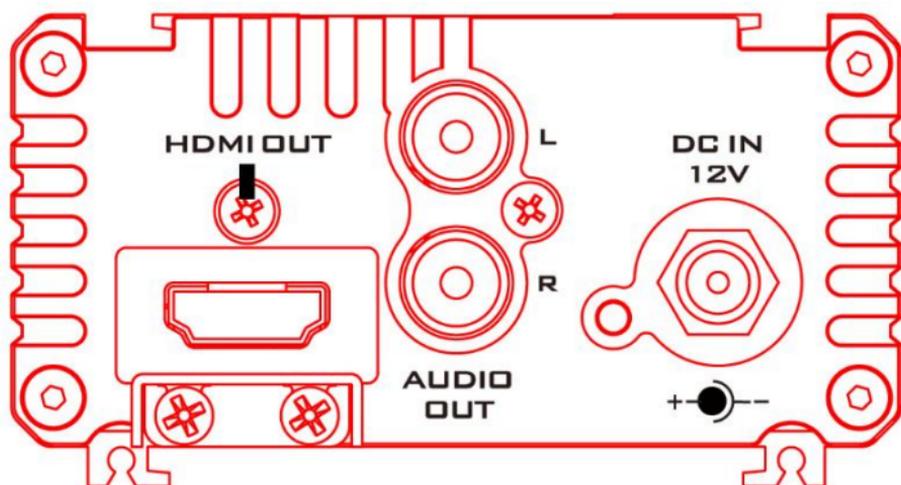
## 2. Connection and Controls



### 2.1 Front Panel

	<p><b>HD/SD - SDI Input and Output (bypass)</b></p> <p>The SDI technology is suitable for long-distance video signal transmission in professional applications.</p> <p>The BNC connector on the left side: HD/SD-SDI Input. The BNC connector on the right side: Loop Through Output.</p> <p><b>Note: The DAC-8PA Supports 3G-SDI Level A/Level B.</b></p>
	<p><b>F/W UPGRADE</b></p> <p>This USB interface is used for firmware update only.</p>

## 2.2 Rear Panel



### DC Power Connector

This connector allows users to connect a 12V/500mA power adapter to the DC power interface.

The connection can be secured by screwing the outer fastening ring of the DC In plug to the socket.



### HDMI OUT

HDMI Output Interface



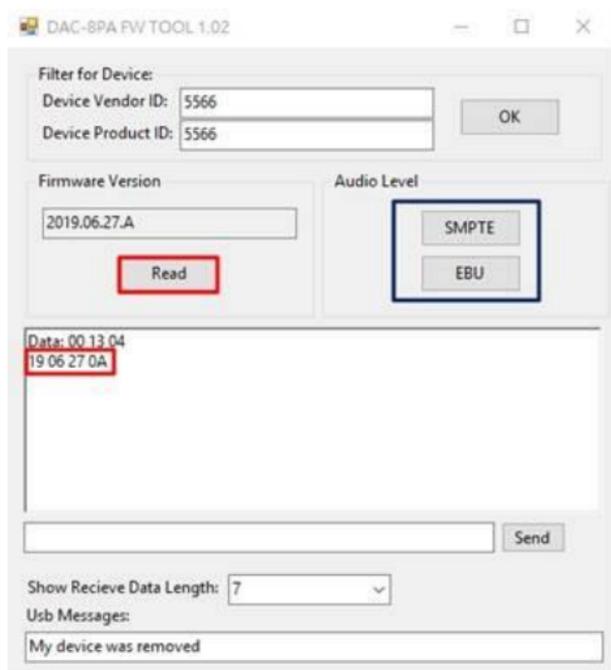
### **RCA Output**

Unbalanced left and right channel audio outputs. The audio signal can be de-embedded from the SDI input signal and then can be output from this AUDIO OUT interface.

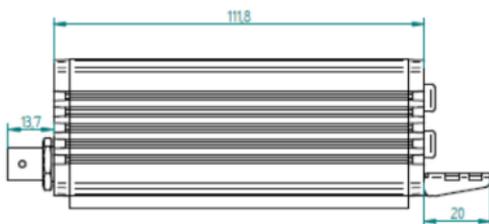
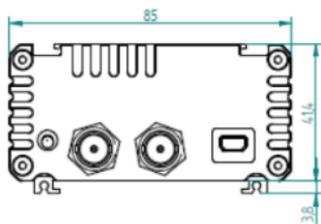
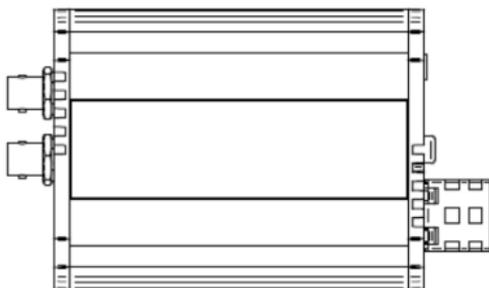
### 3. How to set the SMPTE/EBU Standard for the Audio Level

The DAC-8PA allows users to set the SMPTE/EUB standard of the audio output signal from Audio OUT. Please follow following steps for further setting.

1. Please install the software “DAC-8PA FW TOOL.exe” in your PC. After the installation is finished, please open the software.
2. Please use a USB cable to connect from your PC to the MINI USB interface of the DAC-8PA.
3. Please connect the DAC-8PA to the power source.
4. Please press the “Read” key and then the software version will be shown.
5. Please press the SMPTE or EUB key to set your desired Audio Level standard.



## 4. Dimensions



All measurements in millimeters (mm)

## 5. Specifications

<b>Input</b>	3G/HD/SD-SDI x 1 <b>Note: The DAC-8PA Supports 3G-SDI Level A/Level B.</b>
<b>Output</b>	HDMI 1.3 x 1, 3G/HD/SD-SDI x 1 (Loop-Thru) RCA x 2 (Unbalanced Audio L/R)
<b>Supported HDMI Output Formats</b>	1080p: 60/59.94/50/30/29.97/25/24/23.98 1080i: 60/59.94/50 720p: 60/59.94/50 525i/59.94 NTSC, 625i/50 PAL
<b>Video Processing</b>	SDI : YUV4:2:2 HDMI : YUV4:4:4
<b>Video Bandwidth</b>	[SDI][2.97Gpbs & 2.975/1.001Gpbs] [HDMI] [6.75Gpbs]
<b>Supported HDMI Standard</b>	HDMI 1.3
<b>Automatic 3G/HD/SD-SDI Signal Detection</b>	Available
<b>Output Impedance (SDI)</b>	75Ω
<b>Eye Pattern Characteristics</b>	Extra low alignment jitter 0.05UI at HD

<b>Audio Extracting Supported</b>	Supports 2 channel only.
<b>SDI Re-clock</b>	Supported
<b>Operating Temp. Range</b>	0°C to 40°C (32°F to 104°F)
<b>Storage Humidity</b>	10% to 80% (Non-condensing)
<b>Dimensions(mm)</b>	111.8 x 85 x 45.2
<b>Weight</b>	0.35kg
<b>Power</b>	DC 7 ~ 17V

## 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](http://www.datavideo.com) for answers to common questions, support requests or contact your local office below.



Please visit our website for latest manual update.

<https://www.datavideo.com/product/DAC-8PA>

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