

HD/SD to HDMI Converter

DAC-8



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Quick Start Guide

www.datavideo-tek.com

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.

What's in the box?

Items	Description	Q'ty
1	DAC-8	1
2	Switching Adaptor DC 12V 0.5A	1
3	Instruction Manual	1

Introduction

The Datavideo DAC-8 is stand alone HD/SD-SDI input source transforms to HDMI output source converter, The converter up to 200 meter link to digital video display or projector.

Features

- Rugged housing design for ceiling mounted install easy.
- Compatible with NTSC/PAL
- Audio embedded with HDMI signal output
- DC 12V Operation

Input:

1 x SDI / HD-SDI on BNC

Output:

1 x HDMI

1 x SDI / HD-SDI on BNC (bypass)

Video support format:

720x480 Interlace

720x576 Interlace

1280x720 / 50Hz Progressive

1280x720 / 59.94Hz Progressive

1280x720 / 60Hz Progressive

1920x1080 / 50Hz Interlace

1920x1080 / 59.94Hz Interlace

1920x1080 / 60Hz Interlace

Functions

Front Panel



HD/SD - SDI Input & Output(bypass)

4:2:2 SDI Video data supports SMPTE 292M standard at 1.5G Mbps.

SDI transfers professional level video signals and it's can connect to long distance transmission systems.



RCA Input

Two channels Unbalanced L / R Audio input



Slide Switch

Use slide switch can select audio source from input.

CH 1	ON	ANALOG AUDIO
	OFF	SDI EMBEDDED AUDIO
CH 2	RESERVED	

Rear Panel



DC In Socket

Connect the supplied 12V 0.5A PSU to this socket. The connection can be secured by screwing the outer fastening ring of the DC In plug to the socket.



Power Switch

Switches the power On / Off.



HDMI Output

HDMI digital signal input connector

support format:

720x480 Interlace
 720x576 Interlace
 1280x720 / 50Hz Progressive
 1280x720 / 59.94Hz Progressive
 1280x720 / 60Hz Progressive
 1920x1080 / 50Hz Interlace
 1920x1080 / 59.94Hz Interlace
 1920x1080 / 60Hz Interlace

Specification

Input Interface	• 1x HD/SD-SDI input
Outputs Interface	• 1x HD/SD-SDI output (bypass) • 1x HDMI output
Supported HDMI Output Formats	• 720x480 Interlace • 720x576 Interlace • 1280x720 / 50Hz Progressive • 1280x720 / 59.94Hz Progressive • 1280x720 / 60Hz Progressive • 1920x1080 / 50Hz Interlace • 1920x1080 / 59.94Hz Interlace • 1920x1080 / 60Hz Interlace
HD SDI Signal	SMPTE 292 standard complied with • Output return loss : More than 15 dB (5MHz to 750MHz) More than 10 dB (750MHz to 1.5 GHz) • Output level : 0.8 Vpp ± 10% • Rise time : Less than 270 ps • Fall time : Less than 270 ps • Difference between rise time and fall time within 100 ps • Alignment jitter : Less than 0.2 UI • Timing jitter : Less than 1.0 UI • Eye aperture ratio : More than 90% • DC offset : 0 ± 0.5V • Equalizer use 5C-FB cable support 100 meters
SD SDI Signal	SMPTE 259M standard complied with • Output return loss : More than 15dB(5MHz to 270MHz) • Output level : 0.8Vpp ± 10% • Rise time : less than 1.5ns • Fall time : less than 1.5ns • Difference between rise time and fall time less than 0.5ns • Jitter less than : 0.2 UI
Operating Temperature	• 0°C to 40°C (32°F to 102°F)
Humidity	• 10% to 90% (non condensing)
Dimension & Weight	• 105mm (W) x 120mm (D) x 38mm (H) / 0.5Kgs
Power	• Output DC 12V / 0.5A

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

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