# Video / HDMI to HDMI HD

## Scaler & Format Converter  - ID# 938

**Operation Manual**

## Introduction

Video and HDMI to HDMI Scaler and Format converter is perfect for use with any PAL, NTSC or Secam video signal source and will scale Standard Definition Composite video up to full High Definition HDMI 720p or 1080p. Use with any HDTV in the world. Simply select PAL 50Hz or NTSC 60Hz to change the HDMI output format to suit your HDTV. Very simple to install and operate, the Video and HDMI to HDMI Scaler and Format converter also has a HDMI bypass port and will work with DVI devices.

## Basic Function

1. HDMI output interface: connect with high definition TV or high definition projector HDMI output format:720P@50/60Hz, 1080P@50/60HZ
   Audio output format: Digital coaxial audio, analog stereo audio
2. CVBS input interface: DVD, set top box, PS2, WII, NGC and other players.
   CVBS input format: PAL/NTSC_M/NTSC4.43/SECAM/PLA-M/PAL-N
3. HDMI input format:
   480i/576i/480P/576P/720P@50_60Hz/1080i@50_60Hz/1080P@50_60Hz Compatible with several DVI format: 800X600, 1024X768, 1280X1024. 1360X768, 1680X1050, 1920X1080 etc.
4. 3.5mm audio interface: Connect with analog audio amplifier or headphones input interface
5. Digital coaxial output: Connect with digital audio amplifier.

## Features

**1. Adopting new generation and low power consumption digital chip processing.** 24 hours non-stop run, stability work.
**2. Using 3D compensation technology**. To effectively remove the dithering and trailing phenomenon of the fast motion pictures
**3. Adopting DCDI processing Technology**
   a.Patent technology (developed by Faroudja); remove the serrated twill of the ordinary high definition converters in the video.
   b.Adopting "bad edit detection" ability to inspect original streaming in the various video streaming movie, and to rebuild a more precise video signal, so as to form in completely vertical resolution without dynamic physical image.
   c.Adopting the True Life enhancement technology to identify the detail of the image conversion, such as skin fine lines, spots or hair. The processing of these details makes the pictures look more clearly and lively.
   d.Adopting Motion Adaptive processing technology. Reducing pixels also produce no stain. Really restore the image original face

e.By using the dynamic detector technology to selective for static pictures for a brief filter, and the image storage technology to be required to store the chromaticity of storage. Use of this technology in colour crisscross, after the scene: such as tile changes the roof, crossover design clothes, leaves scene, never appear redundant mottled.

**4.Adopting Scaler video processing technology**
  a.upscale the CVBS signals to high definition 1080P/720@50/60Hz output.
  b.Downscale the high definition 1080P@50/60Hz HDMI signal to 720P@50/60Hz output by Scaler down technology
  c.upscale the standard definition video format (480i, 480p, 720p, 1080i) to high definition 1080P@50/60Hz output by Scaler up technology

**5. Adopting 12S technology**
Through 12S technology, stack the L/R analog audio input signal to HDMI interface, make the HDMI line transport audio conveniently. Eliminate the analog audio transmission line of interference.

**6. Adopting audio and video decoding technology**
Decoding the HDMI digital audio into independent SPDIF coaxial audio and Analog audio through digital decoding technology
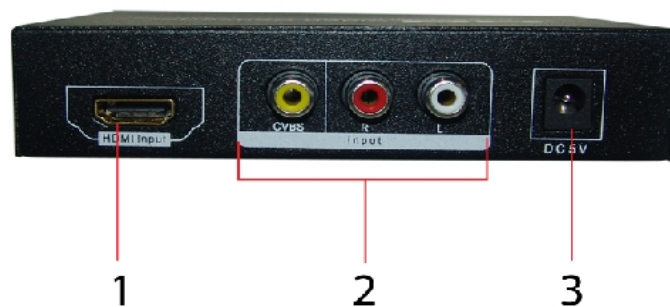
**7. Adopting HDCP treaty processing technology**
Input can decode, remove the HDCP agreement after HDCP, send out without HDCP HDMI signals, convenient back-end without HDCP decoding display device to receive.

**8.Standard converting and video processing technology**
  a.Convert PAL, NTSC standard into HDMI@50/60Hz
  b.Convert 50Hz HDMI signal into 60Hz HDMI signal
  c.Convert 60Hz HDMI signal into 50HZ HDMI signal

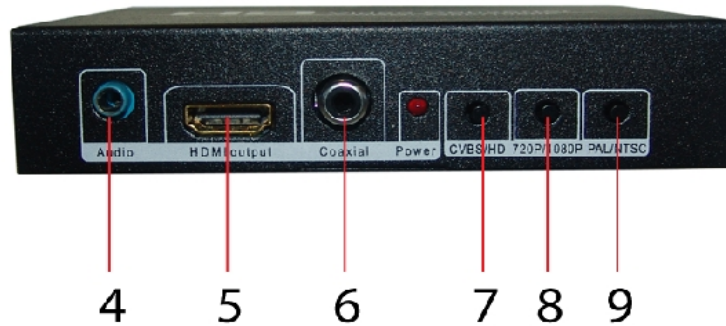**Operation Controls and Functions
Front Panel**



**1. HDMI IN**  HDMI input interface
**2.CVBS IN**   CVBS signal input interface;

CONVERTERS.TV

**L/R IN:**     AV audio input interface
**3.DC/5V:**     DC power input interface

**Rear Panel**



**4.AUDIO**     Analog audio output interface
**5 HDMI OUTPUT**     HDMI output interface
**6. Coaxial**     Coaxial digital audio output interface
**7. CVBS/HDMI** AV or HDMI input switching button
**8. 720p/1080p**     720P or 1080P HDMI output switching button
**9. 50HZ/60HZ**    50Hz or 60Hz HDMI output state button

**Connection and Installation**

HDMI Output

Digital Audio Output

Audio Output

CH Video Converter

HDMI and AV input

BLu-Ray or Game Console

Settop Box or DVD Player