Smart-AVI

SMART AUDIO VIDEO INNOVATION

SaviDecoder D300

Full HD, Low-Bandwidth 1080p Streaming Decoder

Quick Start Guide

INTRODUCTION

The D300 is a decoding unit that allows users to access high quality streams directly from the internet without a PC or classic computer-based connection. Users can connect HDMI and composite AV output devices to the decoder, as well as USB 2.0 transparent peripherals like keyboards and mice, then easily access streams directly from the D300 via any stream's IP address.
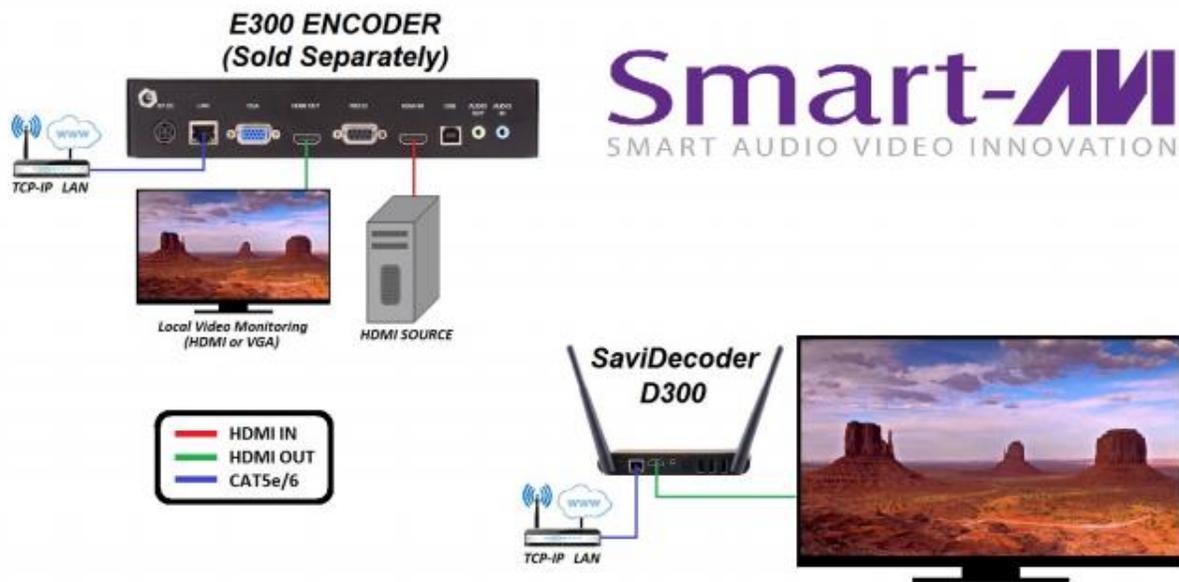
WHATS IN THE BOX

PART NO.	QTY	DESCRIPTION
SAVI-D300-S	1	Streaming Decoder
PS5VDC2A	1	Power Adapter
SAVI-RMT	1	IR Remote Control
	1	Quick Start Guide

TECHNICAL SPECIFICIATIONS

VIDEO	
Interfaces	1xHDMI2.0A Output, 1xCVBS Output, 1xOptical Output
Video Decoding	VP9-10 Profile-2 up to 4K×2K @60fps H.265 HEVC MP-10 @L5.1 up to 4K×2K @60fps H.264 AVC HP @L5.1 up to 4K×2K @30fps H.264 MVC up to 1080P @60fps MPEG-4 ASP @L5.1 up to 1080P @60fps WMV/VC-1 SP/MP/AP up to 1080P @60fps AVS-P16(AVS+)/AVS-P2 JiZhun Profile up to 1080P @60fps MPEG-2 MP/HL up to 1080P @60fps MPEG-1 MP/HL up to 1080P @60fps RealVIDEO 8/9/10 up to 1080P @60fps Support MKV/WMV/MPG/MPEG/DAT/ AVI/MOV/ISO/MP4/RM
AUDIO	
Audio Decoding	MP3, AAC, WMA, RM, FLAC, Ogg and programmable with 7.1/5.1 down-mixing I2S audio interface supporting 8-channel (7.1)input and output Built-in serial digital audio SPDIF/IEC958 output and PCM input/output Stereo digital microphone PDM input Built-in stereo audio DAC Supports concurrent dual audio stereo channel output with combination of analog+PCM or I2s+PCM
NETWORK	
WIFI	2.4GHz/5.8GHz Dual Band
Ethernet	10M/100M/1000M
Interfaces	1x1000M LAN Port
CONTROL	
IR Remote Control	IR RC5
USB	Keyboard and Mouse

OTHER	
CPU	Amlogic S912 Octa Core Cortex-A53
GPU	Mali-T820MP3
RAM	3GB
ROM	32GB
Interfaces	3xUSB2.0 Host
Power Adapter	5 VDC 2 A
Weight	.45 lbs. (D300 Decoder Only)
Dimensions	6"W X 5"D X 1"H
Working Temp.	32 to 122°F (0 to 50 °C)
Working Humidity	Up to 85% RH (no condensation)
Storage Temp.	-4 to 149 °F (-20 to 65 °C)
Storage Humidity	Up to 90% RH (no condensation)

HARDWARE INSTALLATION

1. Before starting, be sure to have your encoder ready and set up and note the IP address. See the SaviStreamer E300 Encoder manual for how to do this.
2. Connect the RJ45 connector on the D300 Decoder to your network with a CAT 5e/6 cable or connect via WiFi. Please be sure to have all devices within the same network.
3. Connect the HDMI connector on the D300 Decoder to a display.
4. Optionally, connect a USB keyboard & mouse to the D300.
5. Power on the D300 decoder with the provided power adapter.
6. Power on the display connected to the D300 Decoder.
7. Press the power button on the front and wait a few seconds for the D300 Decoder to initialize.

8. When you see the Player status screen on the On Screen Display (OSD), use the supplied IR remote control or a USB keyboard & USB mouse to select Configure in the upper right corner of the screen. (See Figure 1).
9. Once Configure is selected, select Source. Enter the IP address for your streaming source formatted like the example shown in Figure 2. And select OK.
    a. Please note that the IP address format usually consists of the following:
       rtsp://xxx.xxx.x.xxx:8554/ where x is the numerical value for the device's IP address.
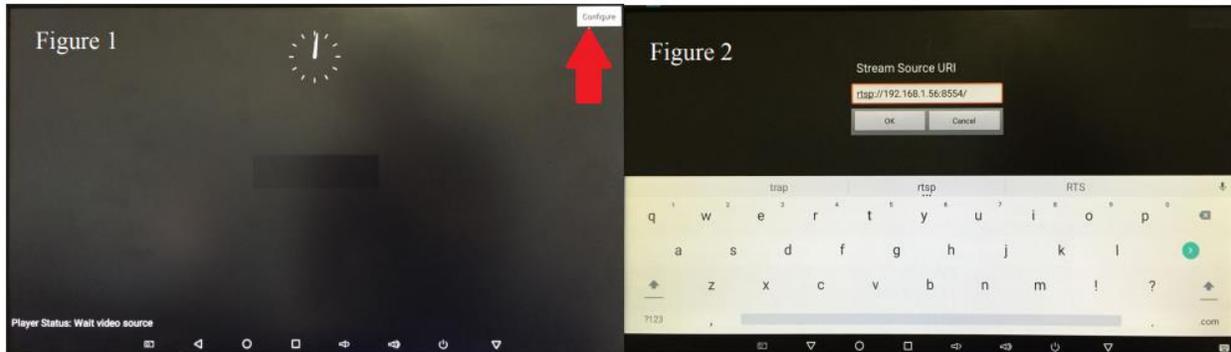10. Start the E300 encoder and the video stream. See the SaviStreamer E300 manual for how to do this.

Figure 1 and Figure 2.

SaviStreamerGUI

SaviStreamerGUI is our free software used to connect our D300 Decoder to E300 Encoders for streaming.

Getting Started:

To ensure proper installation, please:

- Use at least Windows XP Professional (w/ Server Pack 2-3), Windows 2003, or Vista operating systems.
- Log into your system as system administrator
- Turn off Windows Firewall or select SaviStreamer Manager under firewall exceptions tab in control panel.
- If you do not wish to turn off firewalls or make an exception for SaviStreamer Manager, please contact SmartAVI's technical support for alternative processes.

Installation:

SaviStreamerGUI requires Java version 8 to be installed onto the PC that will be used to manage the software. Once Java is installed, install our SaviStreamerGUI software. SaviStreamerGUI will be split into two different parts: Encoders will display on the left side, and Decoders will display on the right side. Simply select the appropriate Encoder's bubble to assign the D300 Decoder (refer to Figure 3). Once assigned, double click the name of the D300 Decoder and a new menu will appear. Click on 'Start Playing' to begin streaming the video input of the selected E300 Encoder. Please note that once a D300 Decoder has been assigned to an E300 Encoder, further setup will not be needed if the devices are power cycled as it will be saved into memory of the D300 Decoder to automatically reconnect.

Figure 3

Control Via Web

SaviStreamerGUI also comes in a web based version as our G300 Gateway. The G300 Gateway makes it easy to access control over the D300 Decoder over any computer without installing any additional software. Simply enter in the IP address of the G300 Gateway and it will auto detect any D300 Decoder and E300 Encoders. Once on the web click on the tab next to "Encoders/Decoders", this is the serial number of the D300 Decoder that is detected. A new window will then pop up, select "Decoder" and input the IP address of the E300 Encoder into the source field. Click "Start Playing" and the D300 Decoder will begin streaming.

Troubleshooting Tips

Factory Reset:
To perform a factory reset, please follow the steps below:
1. On the splash screen that shows SaviStreamer D300 in the center, navigate to the top right where the "Configure" button is. Select "System"
2. This will bring up the Settings page, navigate to "Backup & reset".
3. Select "Factory data reset"
4. Select "RESET MBX"
5. Select "ERASE EVERYTHING"
6. This will begin the factory reset, causing the device to reboot and display the SaviDecoder D300 screen a few times. Please note: The screen will flash multiple times and may take a few minutes to complete the reboot. The LCD screen on the front will display "boot" until the process completes and the splash screen that shows "SaviStreamer D300" will display again.
7. You will now see the Source URL field empty and can be entered again.