

## Digital Video Interfacing Products

### AT8USB

DVB-T (COFDM) Terrestrial Input  
6, 7 and 8 MHz Bandwidth  
Receiver & Recorder  
Small Pocket size  
No External Power Supply needed



### Standard Features

- **High Speed USB 2.0.**
- Windows XP, Vista, Win 7 ( 64bit ) Drivers + SDK.
- Linux Drivers & sample application.
- Accompanied by DVSStaion3, Alitronika's Integrated TS Player, Recorder & Real Time Quick Analyser Software.
- Supports DVB Standards **A1010Rev1** and **EN50083**.

#### Input

- **DVB-T Compliant COFDM Reception.**
- Input Frequency Range:
  - UHF: 470 MHz to 862 MHz.
  - VHF: 174 MHz to 230 MHz
- Modulation Modes: QPSK, 16QAM, 64QAM.
- COFDM Spectrum: DVB-T and DTG compliant.
- Integrated RF Loop Through output.
- Sync, Error & Code Violation Detection.
- Support for Time Stamping, PID filtering.
- Supports 188 /204 byte Packet Sizes.

### Application

*Targeted for Digital Video Professionals, Sophisticated End Users and OEMs the AT8USB is an ideal solution for A number of applications such as:*

- Development Tools.
- DVB to IP or IP to DVB Gateway.
- Transport Stream Recording.
- Transport Stream Analysing
- Transport Stream Monitoring.
- Software Based decoding.
- DVB-T TS for Tans-modulation into DVB-S or DVB-C.



### Specifications

**On Board Buffer:** 8Mbytes  
**RF Tuner Connector:** 75 Ohms Female IEC Type  
**RF Loop Connector:** 75 Ohms Male IEC Type  
**Input Frequency Range:**

- UHF:** 470 MHz to 862 MHz
- VHF:** 174MHz to 230MHz

**Channel Bandwidth:** 7 & 8 MHz  
**Channel Assignment:** C.C.I.R Channel & +/- 166.666KHz offset  
**OFDM Spectrum:** 2k & 8k carrier  
Hierarchical & non-hierarchical  
**Standards:** DVB-T and DTG compliant  
**Modulation Modes:** QPSK, 16QAM and 64QAM  
**Guard Interval Modes:** 1/32, 1/16, 1/8 and 1/4  
active symbol duration  
**FEC Modes:** Rate 1/2, 2/3, 3/4 and 7/8

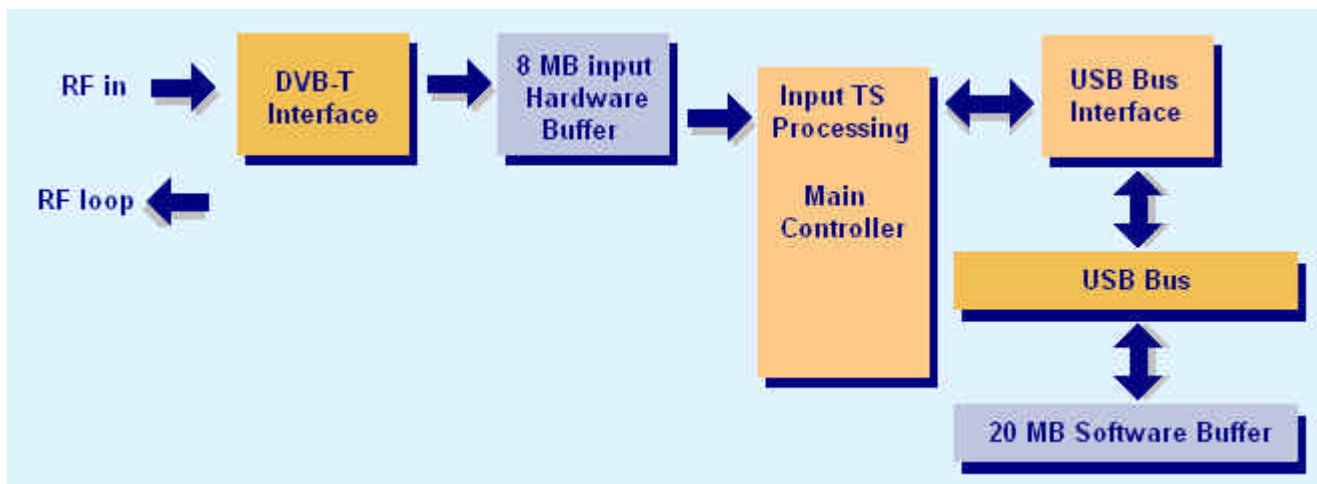
## 1 GENERAL DESCRIPTION

*A member of Alitronika's state of art digital video interfacing products.*

The AT8USB is a USB based interface device suitable for Recording and Analyzing of DVB Transport Streams.

## 2 BLOCK DIAGRAM

**FIG4** illustrates the block diagram of the AT8USB device. The device communicates with the USB bus via the USB interface device. The RF signal is demodulated and then de-coded before entering the PC via the main controller and the USB bus as Full TS files. The main controller transfers the incoming Transport Stream to the application for recording via the hardware buffer, the USB controller and software buffer.



## 3 EXTERNAL INTERFACES

The external interfaces for the AT8USB are shown. There are two 75 Ohms IEC type connectors for the RF input and output of DVB-C as well as USB connector.

The three LEDs in front of the unit function as follows:

<b>PWR</b> - Top LED	Power LED	<b>ON</b> = power is on, <b>OFF</b> = power is off
<b>CD</b> - Middle LED	Record LED	<b>ON</b> = Device is Recording TS <b>Flashing</b> = Record not activated

In Record mode this LED indicates that a Carrier has been detected.

<b>LCK</b> - Bottom LED	LOCK LED	<b>ON</b> = device is locked to TS <b>Flashing</b> = no lock has been achieved
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In Record mode this LED indicates that the device has locked into incoming TS.



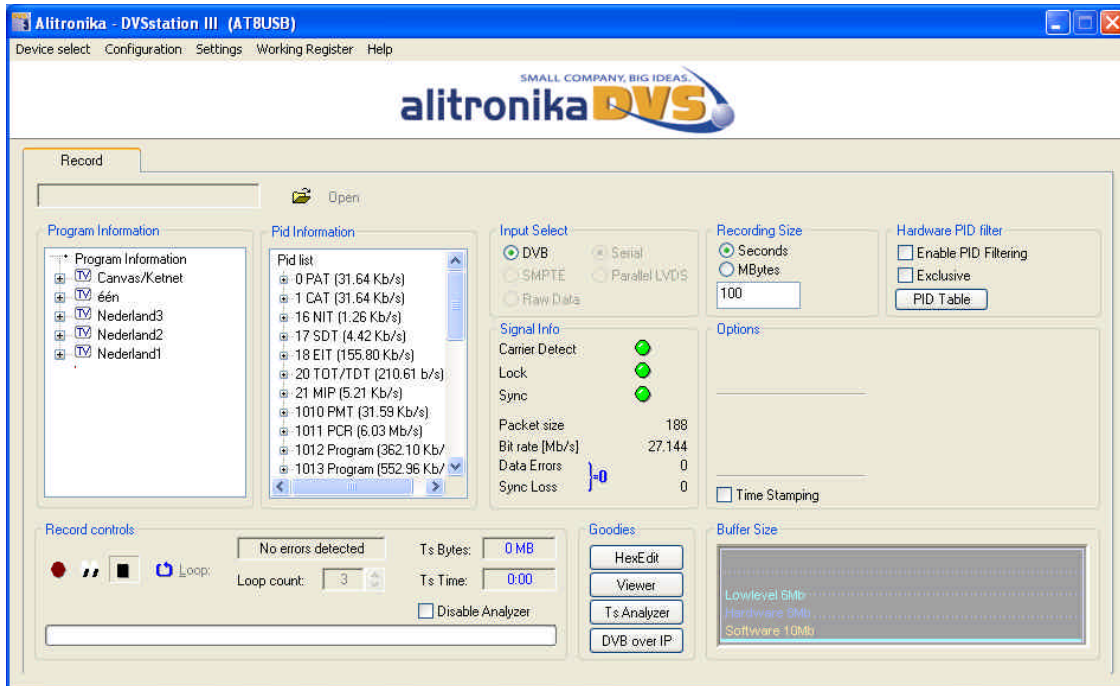
## 4 APPLICATION

Targeted for digital video professionals, sophisticated end users and OEMs the AT8USB is an ideal solution for a number of applications such as, development tools, universal interface for MPEG-II Transport Stream Receiving & recording from DVB-T (Terrestrial) source, software based MPEGII decoders & many other applications.

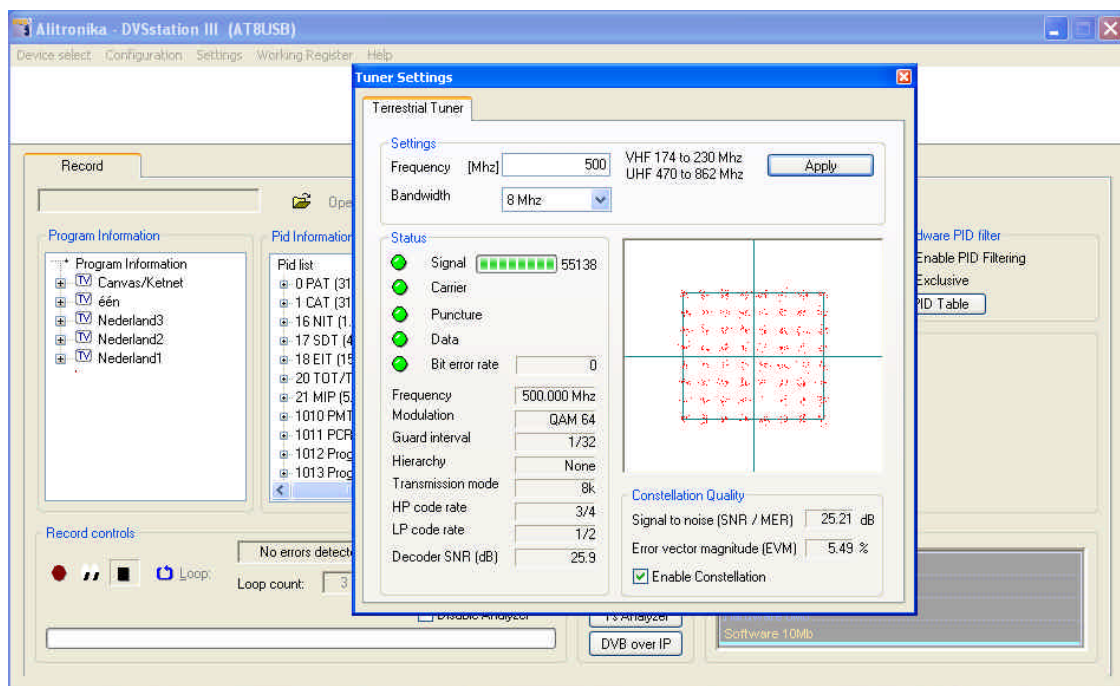
## 5 Software Application, DVStation3

**5.1 - DVStation3:** All of Alitronika devices are supported by DVStation3, Alitronika's **FREE** Transport Stream Player, Recorder, Analyser & converter application software. Please refer to DVStation3 specification and User Manual on our website for more information about DVStation3. Even better please download it from our website & try it out. It works in DEMO mode without any Alitronika devices.

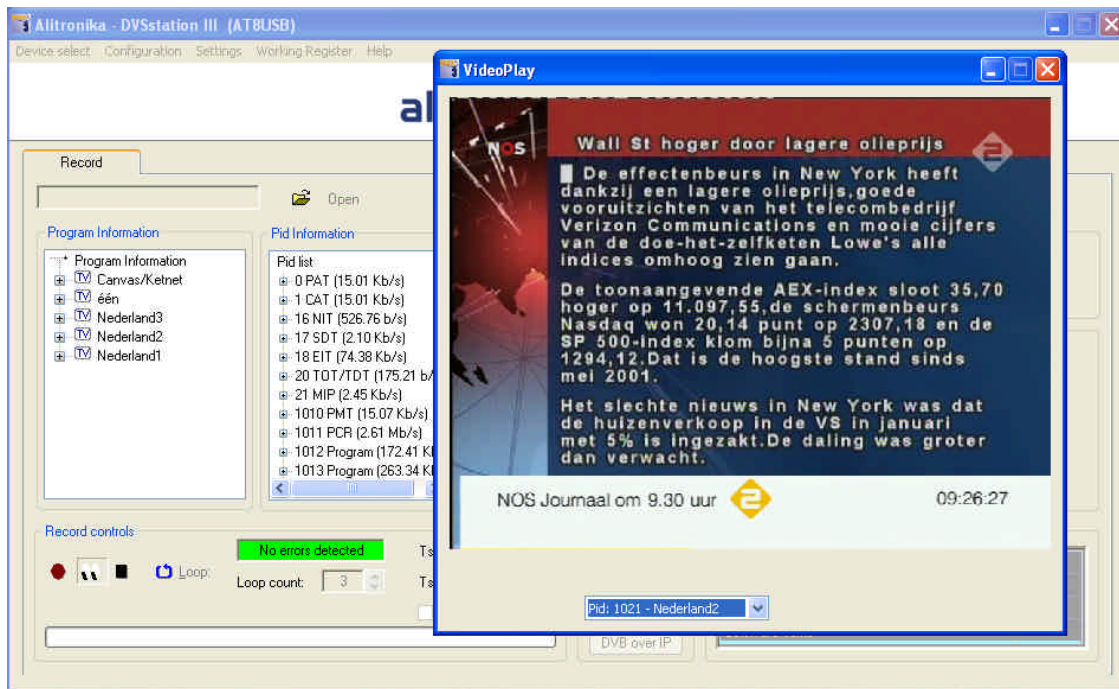
### Record Screen



### Tuner Settings



# Video Viewer



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