

- **Download at <http://www.take-sat.de/english/download.php>**
- **Audio I/O Section**
 - Supports **Windows Wave Drivers**
 - Supports **DirectSound ® Drivers**
 - Supports **ASIO drivers**
 - **User assignable Input /Output channels**
 - **ASIOAssign** allows quick changing of inputs and/or outputs, thus allows you to use your ASIO I/O device as an Input / Output switcher.
 - Samples with **48kSamples /Sec**
- **Impulse Response Module**
 - Measurement of the impulse response
 - **MLS sequence**
 - **Pink filtered MLS sequence**
 - **Dual FFT measurement**
 - **Sweep measurement (including Chirp).**
 - **Max length of impulse response is 512 kBytes, approx 10 seconds.**
 - **Up to 64 averages**
 - **Complex compensation** to eliminate the influence of the measurement equipment.
 - Post Process
 - **Half-windows (Triangle, Blackman, Hamming, Henning, Flat Top)**
 - **STI value**
 - **RT60, EDT, D50, D80, C50, C80, Centertime** for the full frequency range and for the **octave bands**.
 - Display the impulse response as
 - **Linear trace**
 - **Logarithmic trace**
 - **ETC**
 - **Schroeder Plot**
 - **Window the impulse response** to your needs.
 - **Ten presets** available for easy access to different window sizes.
 - **FFT and SmoothFFT¹** to convert the windowed part of the impulse response into a frequency trace.
 - Other
 - **12 definable macros** to define:
 - Kind of measurement
 - Windowing
 - Kind and Size of the FFT used
 - **Oscilloscope display** to look directly to the input signal.
 - **8 Quicktraces** for easy storage and management of the measured impulse responses.

1 The **SmoothFFT** calculates the transfer-function with a fixed amount of points per octave.

- **MAT (Dual FFT) Module**
 - Available measurements:
 - **RTA Display** of both input signals (including delay) with a resolution of **32/15/10 bands**.
 - **FFT Display** of both input signals (including delay).
 - **THD calculation and display** (with sin wave input signal)
 - **FFT + Spectrograph** of the mic input signal
 - **Transfer function**
 - **Impedance**
 - **Impulse response**
 - **Delayfinder** for quick and easy setup of the delay for the transfer function.
 - Quality management in transfer mode:
 - **Amplitude threshold**
 - **Coherence threshold**
 - Delay setup for transfer mode
 - **Delayfinder**
 - **Impulse response** measurement
 - **Manual settings**
 - **Auto-Delay** feature for automatic adjustment of the delay time setting
 - Quicktraces
 - Up to **eight** traces available for display.
 - **Complex averaging** to a sum trace
 - **RMS averaging** to a sum trace
 - **Save and CSV** export to file
 - **Load and import CSV** from file
 - One click assigning of the current measurement to a Quick-Trace
 - **'Real time' addition** of a Quick-Trace and the current measurement
 - Including **phase information**
 - **Amplitude** addition
 - **Cursor read out:**
 - **Frequency**
 - **Amplitude**
 - **Phase**
 - **Wavelength**
 - **Period**
 - **Latched Cursor** functionality to analyze frequency ranges
 - Latched cursor is a border of the range of interest
 - Calculate **center frequency**
 - Calculate **Bandwidth**
 - Calculate **Q (Quality)**
 - Calculate **Bandwidth in octaves**

- Latched cursor is the center of the range of interest
 - Calculate **second border**
 - Calculate **Bandwidth**
 - Calculate **Q (Quality)**
 - Calculate **Bandwidth in octaves**
 - Virtual Equalizer
 - Simulates the behavior of an **parametric** equalizer
 - **assignable** to the **current measurement** in 'real time'
 - **assignable** to the **sum trace**
 - Target Trace
 - Display a **target trace** in the **background**
 - **X-Curve**(cinema) predefined (including range of tolerance).
 - **Other features**
 - **Project management**
 - eases handling of the measurement of different speakers
 - switches the Quick-Traces according to the selected speaker
 - **Feedbackfinder**
 - Scans the input signal for feedback
 - Shows the frequency of the feedback
 - As frequency value
 - as Band value of an
 - 10 Band Equalizer
 - 15 Band Equalizer
 - 32 Band Equalizer
 - shows the offset from the equalizers nominal frequency.
 - Setup
 - **Different Languages**
 - **Custom colors** with four presets
 - **Time display**, Up / down counter
 - **Licensing**
 - **PC related license** with a software key valid only for one pc.
 - **USB Dongle²** activates SATlive on the computer you plug the dongle in.
 - **Hardware requirements**
 - **Full duplex audio interface @ 48000Hz**
 - **PC running windows**
 - **Win 2000**
 - **XP**
 - **Vista**
 - **win7**
 - Memory & Processor requirements vary with OS and hardware. Use the **demo version** of SATlive to check.

² You need to install the software before you can use it. The dongle carries only the license and some settings