

Samplitude Studio Demo V4.02

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This Demo Version of Samplitude Studio is a full working version with the following limitations:

- Recording time limit is 1 minute
- Creating of TOC files is not possible
- VIP length maximum is 1 minute
- Effect processing is limited to files shorter than 1 minute
- Saving is not allowed

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1. New Features in Samplitude Studio V4.0

Here the most important changes between Samplitude Studio V2.52 and Samplitude Studio V4.0:

Features of the actual Studio version V4.0:

- Native 32 bit code for use under Windows 95 and Windows NT
- Support of ARC44 4 channel IO card incl. AUX sends
- Support of multiple standard Windows sound cards for playback and recording (unlimited device number), device selection in the track info dialog, switching between single and multi-card mode in the project properties menu
- Multiple Input Record function without the need of the record dialog - perfect for the new Digital ARC 88 ADAT interface card
- Unlimited track number in VIPs, New VIP dialog lets you select any number of Mono or Stereo tracks
- Fast PCs (Pentium/PentiumPro 200, SCSI AVI drives, Windows NT) play 16 Stereo tracks or more!
- Functions for Cut, Copy and Paste complete virtual Tracks in the Edit menu
- Cut/Copy/Paste/Delete/Clear/Overwrite functions for VIPs are now track sensitive and allow auto crossfade - very comfortable for editing large projects!

- On screen 8 channel mixer with volume, panorama, 3 band full parametric EQ, dynamics compressor, echo/delay on each channel - all effects are calculated in realtime!
- Master section of the mixer with stereo wizard, parametric EQ, dynamics and phase correlation display (typical Pentium 133 performs 16 EQ bands and 8 compression bands)
- Mixer scrolls through projects with more than 8 tracks - so realtime effects can be used on all virtual tracks
- Completely new developed room simulation for creating natural sounding reverb based on natural impuls responses
- Draw Filter / Analyzer: High quality FFT filter / analyzer with freehand filter drawing tool and realtime preview
- Noise Reduction tool for eliminating noise / hum etc...
- Declicking function for repairing overmodulated recordings
- New smooth Timestretching algorithm, useful for large scaling factors
- Audio CD data copy function for SCSI CD ROM drives under Windows 95
- MPEG audio file import and export (export limited to 1:10 compression, upgrade to iMedia audio full version available)
- Smart AVI integration, display of video thumbnails in the VIP timeline, import and export of audio data from/to AVI files
- Audio CD TOC generation, ready for burning CDs using Point CDAudio or CDAudio+
- Mono objects can be used in Stereo VIPs
- Pan Curve in Stereo VIPs
- Record Dialog with LED peakmeters for exact level display
- Cut test features on new toolbar
- Background bitmap and nice mixer knobs when using 16 bit color display (>32000 colors)
- New manual with large tutorial chapter
- ...

2. Hardware needed

For using Samplitude you mainly need at least a PC with Windows 3.1 and 4 MB RAM and a 80386 processor.

To record and playback audio data you will need a 16 bit sound card with Windows driver.

For "Record while Play" you need a soundcard, which can be opened for input and output at the same time or two soundcards with two drivers, one for playback, one for recording.

For hard disk recording an adequate hard disk memory will be needed (one minute recording in CD quality requires about 10 MB), together with a fast 80386 processor or better, a 80486 one.

For realtime filter-preview and volume rubberbands on more than 4 tracks you need a 486/66 or Pentium processor.

To use MIDI sample dump or a connection with MIDI devices you must have a Windows-compatible MIDI interface.

For external Sync via SMPTE you need a special SMPTE interface, for Sync via MIDI-Timecode or MIDI-Clock you can use any Windows compatible MIDI interface.

Typical number of tracks (Mono) in virtual projects:

386/40 with AT-harddrive: 4 tracks 32 KHz

486/66 with AT-harddrive: 4 tracks 44 KHz, 6-8 tracks 32 KHz

486/66 with SCSI-harddrive, PCI-Controller: 6-8 tracks 44 KHz

Pentium 90 with PCI-SCSI-disks: 16 tracks 44KHz

Pentium 200 with PCI-SCSI AV disks: 32 tracks 44KHz

Using of stereo tracks instead of 2 mono tracks increases the performance.

For maximum track number please raise the buffer size for VIPs in menu "Setup > System"!

Some examples for the requirement of memory size corresponding the sampling rate and sampling resolution:

Mode	Memory in bytes / second	Memory for one minute
Stereo 16 bit 44.1 kHz	176.400	10.584.000 byte
Stereo 16 bit 22.05 kHz	88.200	5.292.000
Stereo 8 bit 44.1 kHz	88.200	5.292.000

Mono 16 bit 44.1 kHz	88.200	5.292.000
Stereo 8 bit 22.05 kHz	44.100	2.646.000
Mono 16 bit 22.05 kHz	44.100	2.646.000
Mono 8 bit 44.1 kHz	44.100	2.646.000
Mono 8 bit 22.05 kHz	22.050	1.323.000

The memory size will change at a basic sampling rate of 48 kHz or 32 kHz.