

# Making Tracks

## Lay down some blues with the UW500 and the included software!

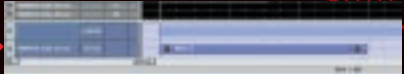
Whether you've had experience creating sequenced tracks on a computer or not, you'll be amazed how incredibly fast and easy it is to produce professional-quality MIDI/audio recordings with the UW500 Personal Studio. Take a look and see just how fast and easy it can be!

### Create a new song



With all software properly installed and running (including the S-YXG50 SoftSynthesizer), create a new song in XGworks lite and select "Create Style Block" from the Edit menu.

### Choose a music style




Select the desired music style — in this case, an R&B pattern — and the desired sections (Intro, Main, Fill In, etc.). Here, we'll create a 12-bar blues, with the Main pattern running for 11 measures and a Fill In kicking in on Bar 12.

### Enter the chords



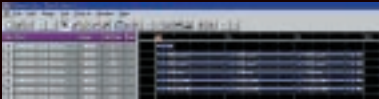
Next, select "Create Chords" from the Edit menu and type in the desired chords — here, a simple blues progression in the key of A. (A for four measures, then two measures each of D, A, E, and A.)

### Record your guitar and voice



Now, add your own parts. Connect a guitar to the UW500 (through your favorite stomp box effect!), and while listening to a loop of the MIDI backing tracks, record your guitar playing to an empty track. If you want, plug in a microphone and add some vocal parts, too!

### Generate the MIDI backing



Select the entire range of the created style and call up "Convert to MIDI Track" from the Edit menu. This automatically creates several MIDI backing tracks (drums, bass, and rhythm guitar), which play back from the S-YXG50 SoftSynthesizer.

As long as you have space on your hard disk and plenty of processing power in your computer, you can record and simultaneously play back up to 100 tracks of MIDI and audio! And don't forget — you can use the TWE Wave Editor to tweak and transform your audio tracks.

## UW500 Specifications

Host Connection:	USB (A type-B USB port located on the UW500 rear panel)
Audio Capability:	One stereo- or mono-line recording (*1) One stereo-line Playback (*1) The input line is selectable by the Input selector switch. * Simultaneous recording and playback are possible (full duplex)
ADA Conversions:	20-bit analog-to-digital conversion 20-bit digital-to-analog conversion
Sampling Frequencies:	32 kHz, 44.1 kHz, 48 kHz (selectable)
Front Audio Inputs & Outputs:	Adjustable* analog input x 2 (1/4" standard TS phone jacks) Digital input (optical) Digital output (optical) Headphone output (1/4" standard TRS phone jack) * Level can be adjusted by 2 separate Input Gain switches and 2 separate Input Volume knobs on the front panel.
Front Audio Controls:	Input Gain switch x 2 Input Volume switch x 2 Input Selector switch (Analog Mono, Analog Stereo, Digital, Track Down)
Rear Audio Inputs & Outputs:	Line level inputs x 2 (RCA-pin jacks) Line level auxiliary inputs x 2 (RCA-pin jacks) Line level outputs x 2 (RCA-pin jacks)
MIDI Interface Capability:	Maximum 32-channel inputs & 96-channel outputs
Rear MIDI & Serial Connections:	IN (DIN5P) – 16 channels OUT (DIN5P) – 16 channels ToTG serial port (9-pin serial)* – 16-channel inputs & 80-channel outputs * Offers direct connection to the TO HOST port on an external tone generator.

• Specifications and appearance subject to change without notice.  
• DirectSound and Windows 98/ME are either registered trademarks or registered trademarks of Microsoft Corporation.

Power Power Supply:	PA-3B AC Adapter
Power Consumption:	10 W
Rear Power Input:	DC IN (connected to the PA-3B power adapter)
Dimensions:	200 x 158 x 47 (W x D x H, unit: mm)
Weight:	800 g
Accessories:	Owner's Manual AC power adapter (PA-3B or equivalent) USB cable CD-ROM (including XGworks lite V3.0A, TWE, and S -YXG50 Soft Synthesizer for Windows® 98/ME)

System Requirements	
Host Computer:	MMX Pentium 166MHz or faster CPU 32 MB or more physical memory (RAM) USB port Windows 98/ME

S-YXG50 Specifications	
Voice Data:	AWM2 Custom technology
Wavetable Data Size:	2MB (using highly-optimized compression technology)
Multi-timbral Capacity:	16 parts
Polyphony:	128 note (can be scaled by the user)
Voice Set:	676 melody voices (fully programmable) 42 SFX voices (fully programmable) 21 drum kits/SFX kits (fully programmable)
Sample Rates:	44.1/22.05/11.025 kHz
Synth Modes:	XG/GM/TG300B
Audio:	DirectSound Compatible



# USB AUDIO / MIDI PERSONAL STUDIO

# UW500

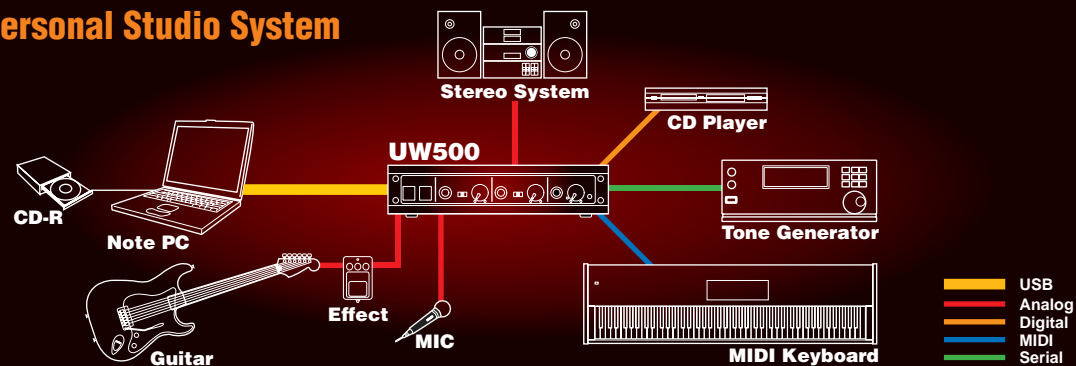
*Plug In — and Play!*  
*All-in-one hard disk recording solution*  
*— for all musicians*



# Bringing it All Together!

The UW500 is truly an all-in-one solution for MIDI and audio recording. With comprehensive analog inputs, digital in/out, and multi-port MIDI capability — plus software for sequencing, editing, and tone generation — the UW500 Personal Studio has everything you need to lay down MIDI and audio tracks — and turn your computer into a fully equipped, easy-to-use home studio! The UW500 Personal Studio hooks up to your computer with a single, high-speed USB cable. Simply plug your guitar or microphone into the front panel and record! It's just as easy as using a tape recorder — yet, because it's digital, it gives you enormous editing flexibility, arranging power, and exceptionally high-quality sound. Which means you can transform your creative inspirations into fully realized, professional-sounding recordings — faster than ever before!

## The UW500 Personal Studio System



### Comprehensive inputs and outputs

Simply plug a microphone, guitar, keyboard — or just about any instrument or source — into the three input sections of the UW500, and record your singing and playing to the computer. The MIC/GUITAR/LINE switch on Inputs 1 and 2 makes this easy. A third input is reserved for line signals, such as a CD player. You've got convenient monitoring of your tracks with the front panel headphones jack — or you can use a separate stereo system.

### Optical digital in/out for recording

Connect a CD player to the DIGITAL IN terminal and record samples to the computer. Or connect a digital recorder (such as MD or DAT) to the DIGITAL OUT terminal to record your musical creations in digital — with no deterioration in sound quality.

### Clean, detailed high-quality sound

The UW500 Personal Studio delivers stunning sound quality, with built-in 20-bit A/D, D/A converters and selectable sampling rate (48/44.1/32 khz). Since it stands outside your computer and has a separate power source, the UW500 is free from any computer-generated noise or interference — giving you absolutely clear, pristine sound!

### All the software you need

Software programs included with the UW500 give you everything you need to lay down MIDI and audio tracks — and edit them, too! The XGworks lite V3.0A Sequencer ties it all together letting you record and play back your MIDI and audio performances, while the TWE Wave Editor provides detailed editing for your audio data. The S-YXG50 SoftSynthesizer lets you play back your MIDI tracks within the computer with a 16-part multi-timbral XG tone generator.

### Full multi-port MIDI control

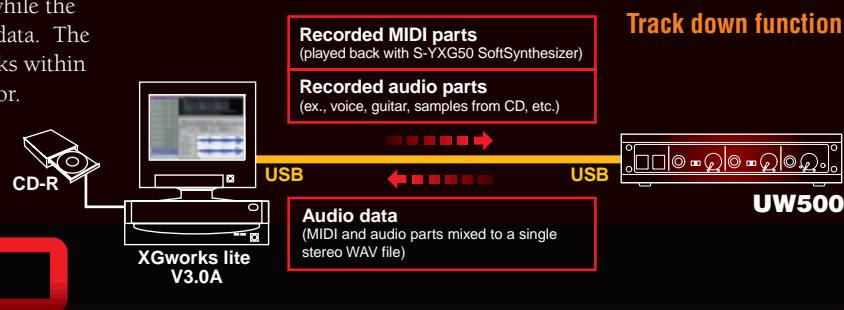
The UW500 also has enormous flexibility as a MIDI interface. In addition to the conventional MIDI IN/OUT terminals is a special TO TG terminal, for tapping into the full MIDI power of the UW500 — 2 MIDI ins and 6 MIDI outs. With a compatible tone generator, that gives you 32 channels in and 96 channels out!

### High-speed, single-connection USB

The worldwide standard USB connection eliminates the need for multiple cables, letting you set up easily and instantly. It also provides high-speed data transfer — both audio and MIDI — to and from your computer. With USB, you can even connect to your laptop computer for a compact, super-simple system, and take your home studio with you — wherever you go!

### Track down — to create your own MP3 files and CD tracks

This powerful feature lets you mix the audio generated by your MIDI tracks with your audio recordings. Normally, this process involves several pieces of outboard gear. Now with the Track Down function and the USB connection, you can do it all within your UW500-equipped computer. The MIDI data (in XGworks lite V3.0A) plays back voices on the S-YXG50 SoftSynthesizer, which are automatically mixed with your audio tracks on the UW500, and sent back to the computer to be saved as a single stereo audio file. It doesn't get any easier than that! Then, simply use your favorite MP3 encoder to create MP3 files, and put your new musical creations on the Internet. Or, with an optional CD-R recorder, burn your own CDs!



USB AUDIO / MIDI PERSONAL STUDIO  
**UW500**

## Front Panel



## Rear Panel



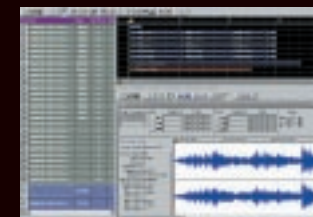
## The Complete Package —

## All the software you need to get your studio up and running!

Included with the UW500 Personal Studio is a full selection of comprehensive software — a sequencer, a “virtual” tone generator, and an audio editor.

### XGworks lite V3.0A Sequencer Recording your MIDI and audio performances

What is XGworks lite V3.0A? And just how can it help you create fantastic music? XGworks lite V3.0A is a comprehensive MIDI and audio sequencer, with a full 100 tracks for recording. With the UW500 as the front end, you can record all your MIDI and audio parts to XGworks lite V3.0A — then cut, copy and paste them, clean up the timing, and use the versatile editing tools to craft your final masterpiece. With all of the tracks in front of you on the computer monitor, editing is far easier than on a stand-alone hard disk recorder! Naturally, you can create various versions of your song, and save them all to disk.



The following functions for XGworks V3.0 are not available in XGworks lite V3.0A.

- Notation editing/printing
- Voice to Score
- Auto Arranger
- Drum window
- Support for editing XG Plug-in Boards
- Guitar Arranger

### S-YXG50 SoftSynthesizer

A complete synthesizer — right in your computer!

The amazing S-YXG50 SoftSynthesizer is the perfect addition to the UW500 Personal Studio and XGworks lite V3.0A. It's a full-featured, “virtual” synthesizer that uses the processing power of your computer to generate sound from the MIDI tracks of XGworks lite V3.0A. Since the S-YXG50 SoftSynthesizer is XG-compatible, you can also take advantage of the wide variety of XG MIDI songs commercially available at the Yamaha Virtual Shop (<http://www.yamaha.co.uk/shop>).

Soft Synthesizer

### TWE Wave Editor

Comprehensive, detailed audio editing — on your computer!

The TWE Wave Editor puts a wealth of comprehensive audio editing features at your fingertips, and gives you the power to alter and enhance your audio recordings — quickly and easily! Naturally, any audio you record — such as your voice or your guitar playing, or even samples taken from MDs or CDs — is fair game for editing. Then, bring the new audio into XGworks lite V3.0A and mix it with your MIDI tracks for complete, professional-sounding productions!



### Yamaha USB-MIDI Driver

This driver software provides “plug and play” installation to your Windows® computer. It also features a virtual patch bay from which you can instantly change the MIDI port assignments of the UW500 — without having to re-patch any cables!

