

#### Filter Type List

Low-pass filter #1. (A low-pass filter blocks out all frequencies above the cutoff frequency.) Low-pass filter #2. Offers much higher Q (resonance) than low-pass filter #1.

The characteristics of this low-pass filter are somewhere between LowPass1 and (A high-pass filter blocks out all frequencies below the cutoff frequency.)
High-pass filter #2. Offers much higher Q (resonance) than high-pass filter #1.
Band-pass filter. (Allows only frequencies near the cutoff frequency to pass; Band-pass litter. (Allows only frequencies near the cutoff frequency to pass; blocks out all higher and lower frequencies.)

Band-elimination filter. (Blocks out the frequency range around the cutoff frequency, while allowing higher and lower frequencies to pass.)

A filter with an emphasis peak at the cutoff frequency.

With this filter the original sound is mixed with the sound of the Peak1 filter. A combination of two peaking filters. 2Dips DualLPFs A combination of two band elimination filters.
A combination of two low-pass filters. LPF+Peak DualHPFs A combination of a low-pass filter and a peaking filter. A combination of two high-pass filters. A combination of a high-pass filter and a peaking filter. A combination of a low-pass filter and a high-pass filter.

## **Effect Type List**

Scratch (DIGITAL SCRATCH) AutoSvn (AUTO SYNTH) TechMod (TECH MODULATION)
NoisDly (NOISY MOD DELAY) NoisAmb (NOISE AMBIENT)
Jump (JUMP) BeatChg (BEAT CHANGE)
Pitch1 (PITCH CHANGE 1) Pitch2 (PITCH CHANGE 2) LoReso (LOW RESOLUTION) Noisy (NOISY) AtkLoFi (ATTACK LOFI) Radio (RADIO) TurnTbl (DIGITAL TURNTABLE) LoFi (LO-FI) LPFiltr (LOW PASS FILTER)
HPFiltr (HIGH PASS FILTER) BPFiltr (BAND PASS FILTER)
AWah+DS (AUTO WAH + DIST) AWah+OD (AUTO WAH + OVERDRIVE)
TWah+DS (TOUCH WAH + DIST) TWah+OD (TOUCH WAH + OVERDRIVE) W+DS+DL (WAH + DIST + DELAY) W+OD+DL (WAH + OVERDRIVE + DELAY)
TalkMod (TALKING MODULATOR)
3BandEQ (3BAND EQ) Isolatr (ISOLATOR)
Enhance (HARMONIC ENHANCER) VceCncl (VOICE CANCEL)
Comp (COMPRESSOR) Comp+DS (COMP + DIST)
C+DS+DL (COMP + DIST + DELAY) C+OD+DL (COMP + OVERDRIVE + DELAY)
Clip1 (CLIPPER1) Clip2 (CLIPPER2) seGt (NOISE GATE) V-Dist (V-DISTORTION) Dist (DISTORTION) OverDrv (OVERDRIVE)
AmpSim (AMP SIMULATOR) DistS (STEREO DISTORTION) OvrDrvS (STEREO OVERDRIVE)
AmpSimS (STEREO AMP SIMULATOR) Dist+DL (DIST + DELAY)
OvDr+DL (OVERDRIVE + DELAY) Chorus (CHORUS) Chorus2 (CHORUS2)

Celeste (CELESTE)

Included items

Sympho (SYMPHONIC)
Detune (ENSEMBLE DETUNE) Flanger (FLANGER)
V-Flang (V-FLANGER)
Phaser1 (PHASER1)
Phaser2 (PHASER2) Tremolo (TREMOLO)
FingPan (FLANGING PAN) FlowPan (FLOW PAN) Rotary (ROTARY SPEAKER) RotaWay (2WAY ROTARY SPEAKER)

2Rotors (DUAL ROTORY SPEAKER)

DS+Rot (DIST + ROTARY SPEAKER) DS+ROT (LUIST HOLTARY SPEAKER)

OD+ROT (OVERDRIVE + ROTARY SPEAKER)

Amp+Rot (AMP SIM + ROTARY SPEAKER)

DS+2Way (DIST + 2WAY ROTARY SPEAKER)

OD+2Way (OVERDRIVE + 2WAY ROTARY SPEAKER) Amp+2Wy (AMP SIM + 2WAY ROTARY SPEAKER) AutoPan (AUTO PAN) Dly+Pan (DELAY + AUTO PAN)
3Delay (DELAY L, C, R) 2Delay (DELAY L, R) Echo (ECHO) X-Delay (CROSS DELAY)
CtiDly (CONTROL DELAY(MONO))
CtiDlyS (CONTROL DELAY(STEREO)) Ambienc (AMBIENCE) Karaoke (KARAOKE) Eref (EARLY REFLECTION)
GateRev (GATE REVERB) RvsGate (REVERSE GATE)
Hall (HALL) Room (ROOM) Stage (STAGE) Stage (STAGE)
Plate (PLATE)
WhiteRm (WHITE ROOM)
Tunnel (TUNNEL)
Basemnt (BASEMENT)
Canyon (CANYON)
T-Dly (TEMPO DELAY (MONO))
T-DlyS (TEMPO DELAY (STEREO)) T-XDly (TEMPO CROSS DELAY)
T-Flang (TEMPO FLANGER) T-Phase (TEMPO PHASER)
T-AWah (TEMPO AUTO WAH) T-Scrch (TEMPO DIGITAL SCRATCH)
T-ASyn (TEMPO AUTO SYNTH) T-FgPan (TEMPO FLANGING PAN)

### **Specifications**

Tone generation method Maximum polyphony 126 notes (64 notes on the A4000), 32 multitimbral parts (16 parts on the A4000) A/D conversion 20 bit 64-times oversampling 24 bit 8-times oversampling DIGITAL connectors S/P-DIF (coaxial)
OPTICAL connectors S/P-DIF (optical) Digital I/O Input/output (only when AIFR1 I/O expansion board is installed) Output frequency 44.1 kHz 44.1, 22.05, 11.025 kHz, 5.5125 kHz Sampling frequency Analog input (mono and stereo)
Digital input (only when AIEB1 I/O expansion board is installed) 48 kHz, 44.1 kHz, 32 kHz external synchronized recording (stereo only) 1/2, 1/4 and 1/8 undersampling is supported Internal sample memory capacity 4 MB (installed on-board) (When four 32 MB 72-pin SIMM modules are installed. The on-board 4 MB are unused only if memory has been expanded to the maximum.) Sampling time Maximum sample length 32 MB monaural 64 MB stereo Maximum sampling time (mono or stereo) 6 minutes 20 seconds (44.1 kHz) 12 minutes 40 seconds (22.05 kHz) 25 minutes 21 seconds (11.025 kHz) 50 minutes 43 seconds (5 5125 kHz) Effects 6 effect blocks (3 on the A4000), Total equalizer (4 bands), Sample equalizer Program 128 programs Realtime recording and playback

POWER switch, INPUT L,R jacks (phone x 2), REC VOLUME (L& R shared), MASTER VOLUME (L&R shared, STEREO OUT & PHONES sitateu), MiASTER VOLDIME (LAN Stiateu), STENEU OUT & PTIONES Shared), PHONES OUTPUT jack, Knobs (1 - 5), Mode buttons (PLAY, EDIT, REC, DISK, UTILITY), Function buttons (six buttons), Command/Exit button, Assignable button, Audition button, LCD (320 x 80 dot, LED backlight), LCD contrast control, 3.5° 2HD/2DD dual mode Rear panel

STEREO OUT L/MONO, R (phone jack x 2), ASSIGNABLE OUT L, R (phone jack x 2), MIDI IN-A/B, OUT, THRU-A/B (IN, OUT, THRU on the A4000), SCSI (half-pitch, 50-pin), Expansion board slot, Power supply

Two-space rackmount unit W 480 mm x D 461 mm x H 90 mm (18-7/8" x 18-1/8" x 3-9/16")

Weiaht 8.0 kg (17lbs 10oz)

> Power cable x 1, CD-ROM x 10, DEMO disk x 4, Power cable for internal hard disk (long) x 1, Power cable for Zip $^{\odot}$  drive (short) x 1, SCSI cable for internal hard disk x 1, IDE cable for internal hard disk and 7ip® drive x 1. Owner's manual x 1

AIFB1: I/O expansion board Ontions (made by Yamaha)

Internal expansion devices

Expansion memory
(use a pair of identical-size 72-pin SIMM modules of the following types)
Access time 70 ns or less
Bit width x32 (no parity) or x36 bit
(parity) Fast Page or EDO,

JEDEC standard 4 MB/8 MB/16 MB/32 MB

Internal hard disk drive (3.5 inch) performance requirements Interface 50-pin SCSI or 40-pin IDE Power supply +5V maximum 840 mA +12V maximum 2400 mA

Interface 40-pin IDE (ATAPI) Power supply +5V 0.8A Internal 7in® drive

Specifications are subject to change without notice.
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For details please contact:





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The A5000/A4000—Samplers That Revolutionize Sampling

Ever since the introduction of sampling technology, virtually every rackmount sampler on the market has been just that—a sampler—and nothing more. Sure there have been advancements in sound quality and the addition of digital effects, but the basic concept has remained the same...UNTIL NOW. Announcing the arrival of the revolutionary A5000/A4000—professional samplers with the power not only to create sounds, but to shape them in a way never before dreamed possible.

Of course the A5000/A4000 have impressive specs for a sampling unit. Both models are expandable with up to 128 MB of RAM and can accommodate an Internal Hard Drive and Internal Zip® Drive simultaneously. The A4000 provides 16 Multitimbral Parts and 64 Notes of Polyphony, while the A5000 gives you nearly double the power with 32 Multitimbral Parts and 126 Notes of Polyphony. And for ultimate flexibility and convenience, these samplers are compatible with a wide range of sample formats, including AIFF and WAV among others, and are bundled with special Sample and Parameter Editing Software.

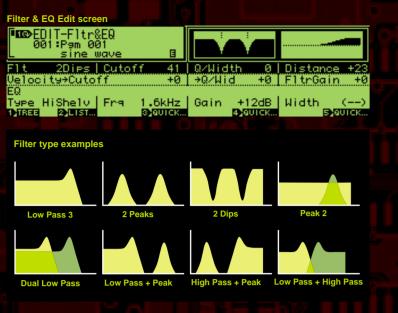
But the A5000/A4000 are not merely "samplers"—they are advanced synthesis tools that let you process samples creatively...and easily. Both models provide abundant features for versatile sound production:

16 Types of Ultra Fat Filters that deliver powerful resonance, 96 Types of Effects for creating never-before-heard sounds, a MIDI Syncable LFO with fully programmable waveforms, unprecedented Loop Divide/Remix and Resampling functions, Direct-to-CD Burning capability and much, much more! And with their Large LCD Panel, heavy-duty Realtime Control Knobs and Intuitive User Interface, these samplers are incredibly easy to operate, allowing you to give full concentration to creating your own unique sounds and music.



#### **Powerful Filter Section**

The A5000/A4000 feature an elaborate filter stage, providing 16 different filter types with complete control over the parameters. Many filter types feature a O (resonance) setting that can be controlled by keyboard velocity—great for creating expressive acid leads and basses. Along with the standard lowpass, high-pass and band pass filters, these samplers feature many unusual filters such as band eliminate, peak, and dip filters. Also included are several unique multi-mode filters, which let you assign two independent filters to a single sample; a low-pass and high-pass filter for example.



#### 96 Outstanding Onboard Effects

The A5000/A4000 are not just high-quality samplers, they're also highly advanced digital multi-effect processors, exceeding the capability of many professional stand-alone effect processors The A5000 gives you 6 blocks of effects and the A4000 gives you 3. Each effect block can be assigned any one of the 96 onboard 2 077/ERef E5-T-F1 a effect algorithms, which include a huge selection of reverbs, distortions, modulation effects and delays, as well as several truly unique effects such as Auto Synth, Tech Modulation, Digital A4000 Effect Setup screen Scratch and an extensively programmable Lo-Fi effect. Most effect types can be applied during the sampling process combine this capability with the Resampling function and you'll have virtually endless effect processing power at your fingertips. You can even have the A5000/A4000 double as a high-end studio effects processor by assigning effects to the stereo analog inputs.







## **An Indispensable Tool for Dance Music Remixing & Production**

If you're into sequencing or remixing dance tracks, you'll find the A5000/A4000 are a dream come true. Packed in these samplers is an extensive array of sample editing functions that are ideal for today's dance music.

The Loop Remix function divides a sample loop into discrete sections according to preset patterns, and then randomly rearranges their timing and order, while adding reverse, pitch, lo-fi and gate effects in the process. The result is a totally unique, remixed loop. With this function you can instantly create awesome break-beat fills, hip-hop shuffles, and electro grooves...all at the touch of a button. Plus, the remixing process is non-destructive, which means you can freely make as many remixed loops as you want without affecting the original

sample. Whenever you come up with a remixed loop that you like, you can store the randomly generated pattern that created it as a User Type for later use. The Loop Divide function automatically slices a sample loop into several parts according to the beat, while simultaneously assigning each part to a different note. This allows you to compose your own remixes by playing the sample parts manually on a MIDI keyboard.



#### ■ Resampling

can't do without.

Once you get your hands on the A5000/A4000's Resampling function you'll be amazed at how easy and convenient it is to match the pitch and tempo of your samples to the rest of your sequenced tracks. Pitch Convert mode lets you change the pitch of a sample without altering the speed. Time Stretch mode lets you change the speed of a sample without altering the pitch. Speed variations can be calculated based on tempo, length, beat or time, according to your preference. If you like to compose tracks by

onmand Resample

#### ■ MIDI Syncable LFO with Programmable Waveforms

Not only do the A5000/A4000 feature independent LFOs for each sample, but also a master Program LFO—a MIDI syncable LFO exclusively for samples assigned to the Program setup. By setting the cutoff modulation source of any sample to Program LFO, you can have

the cutoff frequency sweep according to the rate and waveform of the LFO. StepWave, one of the 6 Program LFO waveforms, expands your modulation capability by allowing you to set up to 16 "steps" within an LFO cycle to control the modulation effect. You can program the modulation level of each step yourself, or have the A5000/A4000 randomly generate the waveform for you. You can even smoothen the waveform by adding slopes between each of the steps.

sampling rhythm loops from multiple sources, Resampling is a function you



#### **Intuitive User Interface**

Navigating through the various functions is remarkably easy thanks to the A5000/A4000's intuitive user interface. Simply select a Mode and Function from the front panel matrix and the parameters associated with that function will be clearly displayed on the bright, easy-to-read 320 x 80 LCD panel. Five panel knobs allow you to open pop-up menus, select values and execute operations quickly and conveniently.



## Realtime MIDI Control Knobs (Panel Play)

By selecting the Panel Play function, the A5000/A4000's four right panel knobs become realtime MIDI controllers, allowing you to tweak the sound of the internal samples as well as control external MIDI synthesizers. You can even record the MIDI control data transmitted by each knob into an external sequencer and have all the changes play back automatically.

Have you ever wanted to borrow a friend's drum machine and sample all of its sounds? Or perhaps sample several tracks off of a sampling CD? With conventional samplers, recording multiple sounds in a row can be extremely time consuming since you must go through the sampling setup procedure each time you want to record a new sound.

With the A5000/A4000's Consecutive Sampling function, however, you can make as many samples as you want, one by one, without pressing any buttons between samples! Just set the Record Type to "New+" and press GO—the A5000/ A4000 will create a new sample every time an audio signal is detected and automatically pause once the signal stops. Samples will be mapped out automatically in the order that they were recorded, saving you even more time and effort.

#### Ready to Expand to Your Exact Needs

The A5000/A4000 provide impressive expansion capability to cater to your exact sampling needs. Both models are equipped with a SCSI interface, allowing you to connect an external hard drive or CD-ROM drive for quick and easy loading of sample data. And if portability is a concern, you can easily install an internal hard disk drive (50-pin SCSI or 40-pin IDE) or replace the floppy disk drive with a Zip® drive (ATAPI) using the provided connection cables. The onboard sampling memory can be expanded up to an incredible 128 megabytes using pairs of standard 72-pin SIMMs. And for professional-level music production, the optional AIEB1 I/O expansion board provides 6 individual audio outputs (in addition to the 4 audio outputs already on the unit) as well as both optical and coaxial digital I/O capability

Zip® is a trademark of Iomega Corporation.

YAMAHA AIEB1 Optional I/O Expansion Board

#### This photo is for illustrative purposes only. Necessary wire connectors are not show

## **Direct-to-CD Burning Capability**

The A5000/A4000 allow you to connect a CD-RW drive directly to their SCSI port and back up the contents of your hard drive—without the need for a computer. Not only does this provide a cost-effective way to store your projects, but it also allows you to effortlessly produce your own audio sampling CDs



#### **Compatibility with a Broad Range of Sample Formats**

The A5000/A4000 have the ability to import and export AIFF and WAV files directly to and from any DOS-formatted floppy disk, hard disk or Zip<sup>®</sup> disk, as well as import from CD-ROM. Plus they are compatible with sample files from other Yamaha samplers such as the highly acclaimed A3000 and SU700, as well as compatible with various sample formats used by other manufacturers, thus giving you the support

#### **Supported Formats for Import**

#### EX7/5/5R

Voices (from FD, HD, non-LPC RAM samples only) Waves (from FD, HD, non-LPC RAM samples only)

#### **SU700**

Samples (from FD, HD) Note: Except segmented data stored on multiple floppy disks.

## TX16W

Samples (from FD)

## **WAV File**

8/16-bit linear, mono/stereo, ".WAV" extension (from DOS-format FD, HD, or ISO9660-format CD-ROM)

#### AIFF File

8/16-bit linear, mono/stereo, ".AIF" extension (from DOS-format FD, HD, or ISO9660-format CD-ROM)

#### Standard MIDI File

Format 0, ".MID" extension (from DOS-format FD, HD, or ISO9660-format CD-ROM)

#### Sample Data of Other Manufacturers

The following data can be imported via floppy disk, hard disk or other storage medium: Akai S1000 or S3000 programs and samples; E-mu EIIIx presets and samples; and Roland S760 patches or samples (data may not load properly in some cases). Note: The product and company names listed above are trademarks or registered trademarks of the respective manufactures.

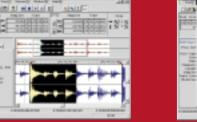
# Sound Library and Software CD-ROMs Included

Bundled with the A5000/A4000 is a 9-set collection of CD-ROMs packed with samples ranging from hip-hop and break-beat rhythms to finely recorded orchestral instruments. Also included is a software CD-ROM that contains parameter-editing and sample-editing applications for both Mac and Windows.

#### **TWE Wave Editor**

TWE is a comprehensive hard disk recording and editing package that lets you graphically edit and process sound files. You can import/export sound files directly to and from the A5000/A4000 via SCSI connection as well as record sound to hard disk from any audio source.







The A5000/A4000 Editor makes editing your samples incredibly easy by letting you visually change the parameters on your computer screen. All changes, are sent to the A5000/A4000 via MIDI in realtime, so you'll be able to instantly hear the results of any edits you perform









3	XGWorks lite V3.0	<ul> <li>YAMAHA Wave Editor TWE V</li> </ul>
	<ul> <li>A5000 Editor</li> </ul>	Acrobat Reader 4.0
	<ul> <li>A4000 Editor</li> </ul>	YAMAHA CBX Driver

A4000 Editor
 YAMAHA Wave Editor TWE V2.2
 OMS 2.3.6
 OMS Setup for YAMAHA device



## Professional Studio Library — "Standards" CD-ROM

This CD-ROM contains a superb-sounding collection of acoustic and electrically amplified instruments. Included is a wide variety of grand pianos, organs, brass, strings, woodwinds, guitars, drums and more—all the essentials on one fantastic disc!

#### **Professional Studio Library CD-ROM x 8**

This professional 8-disc sound library features programs developed by some of the world's foremost music producers and sound designers. On these discs you'll find an enormous selection of sample programs, from a complete collection of musical instruments to a vast assortment of synthesizers and sample loops tailored to today's dance music scene. Specially designed for use in demanding audio production applications, these CD-ROMs boast sound quality















