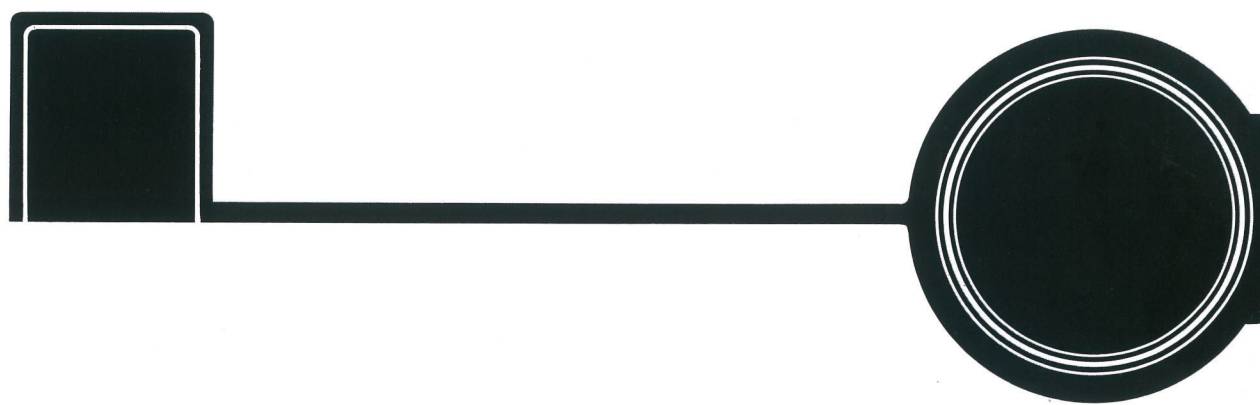# The Yamaha YS200/100: Your Key To New Dimensions In Musical Creativity

DIGITAL SYNTHESIZER

YS100
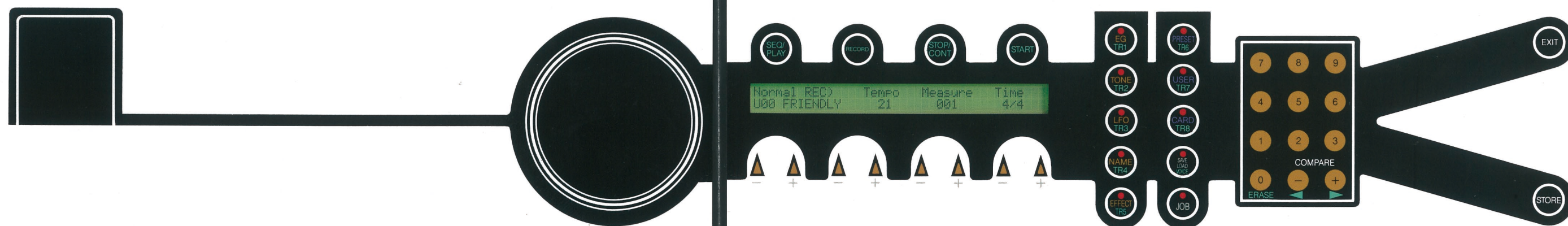## YS200

The Yamaha YS200/100: Your Key To New Dimensions In Musical Creativity

DIGITAL SYNTHESIZER

YS100
YS200

Richly textured sounds. Professional quality effects. Amazing expressive power. Unprecedented ease of use. All this and more from the amazing Yamaha YS200 and YS100 Entertainment Operating System Keyboards.

The YS200 and YS100 are just two of an exciting new breed of Yamaha keyboards that provide an inspiring range of dynamic sounds and performance potential in very affordable packages.

The YS200 and YS100 may be compact in size and light in weight, but there's nothing small or lightweight about the capabilities of these advanced instruments. Here are just a few of the things they offer you:

- The latest sound generation system—FM Synthesis—for superb digital sound.
- Exceptionally clear and logical editing procedures for ease in sound shaping.

- Easy Edit controls for basic editing operations.
- Job Mode for advanced editing capabilities.
- Professional-quality effects, such as reverb, delay and distortion.
- Comprehensive performance controls, including key velocity, breath control and—on the YS200—after touch.
- 100 internal preset voices, with memory storage capability for 100 user voices. 100 voices can also be retrieved from and stored to card.
- Comprehensive MIDI functions, allowing the YS200 to operate as a master controller for other synthesizers and rhythm machines.

Moreover, the YS200 has a fully equipped built-in 8-track sequencer, for song recording and editing.
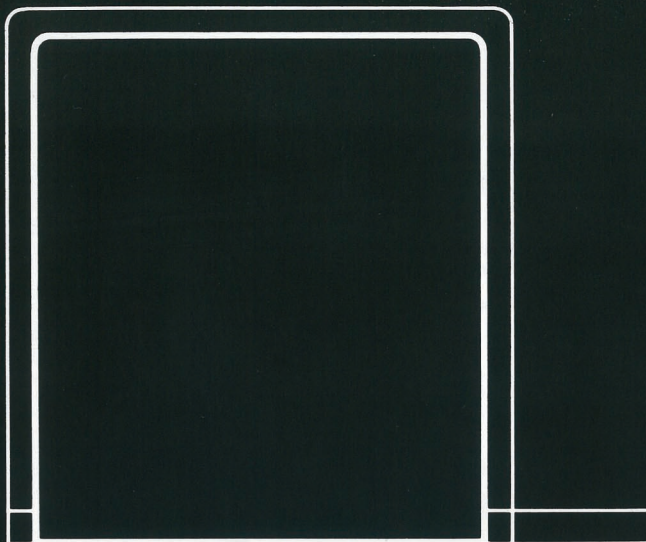
CARD

PLAYING

Abundant, Dynamic Digital Voices

Lay your hands on this instrument.
Play it to your heart's content.

Even if you've never touched an electronic keyboard before, you'll find the YS200 and the YS100 exceptionally easy to use. An impressive array of realistic instrumental sounds, stunning synthesizer voices and unique sound effects are at your command the moment you turn on the YS200. The internal memory of the YS200 has 100 preset voices created by expert programmers, providing you with an entire orchestra of sounds ideal for nearly any musical application.

Superb voices that shine with all the clarity of the original. Flutes and saxophones. Tubular bells and pipe organs. Synthesizer bass and bass drum. All convincingly accurate, all digitally precise, and all with astonishing depth and character.

And many more specially programmed sounds are available on a continuing series of memory cards. Each memory card has 100 different voices of a certain kind of sound group—groups such as Percussion, Orchestra, Sound Effect, and Synthesizer sounds.

The YS200/100's sounds are a result of Yamaha's ingenious FM (Frequency Modulation) Synthesis. The system is sophisticated. The sound is brilliant and clear. And it puts realistic recreations of actual acoustic sounds along with stunning synthesizer and sound-effect voices just within the reach of your fingers.

VOLUME

PERFORMING

SEQ/PLAY   RECORD   STOP/CONT   START
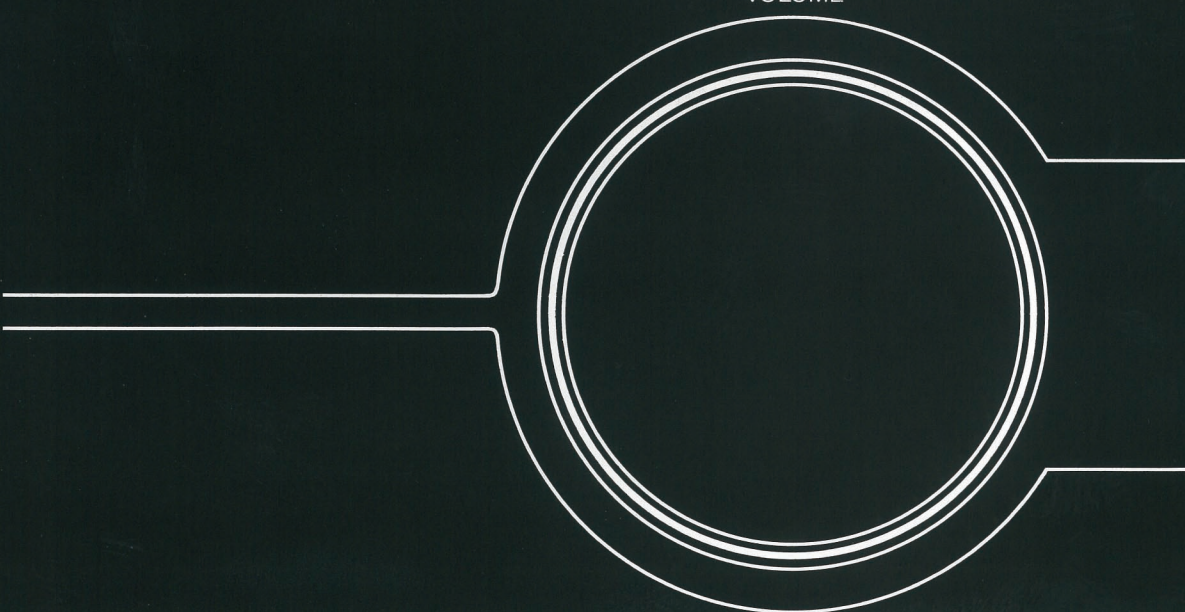
Studio-Quality Effects

The creative potential doesn't stop there, however. A wide range of built-in effects can be applied to your sounds. Effects like reverb, delay and distortion. Effects that can make your voices sound more natural and more dynamic. Effects that give your voices a professional touch.

Put just the right amount of bite and edge on a guitar voice. Mix a slight echo with a marimba sound for a special rhythmic effect. Or have a delayed repeat of the sound bounce across the stereo image, from speaker to speaker. With the reverb programs in the effect section, you can even have your favorite string voices sound as if they were being played in a large concert hall—or from a small basement, if you prefer. Just about anything and everything are possible. And all effect programs can be tailored to your specific needs and to match the sounds on which they are used.

All effect programs are also part of the voice memory, so one effect can be stored with each individual voice for instant recall. This means, of course, that the rich and varied textures of the voices you play are significantly enhanced, virtually making the YS200 perform like a whole rack of sophisticated synthesizers and effect devices.

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EFFECT)        Preset         Time      Balance
No.6  Dist.+Rev. (20)  2.6sec         50
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Performance Flexibility

Performing on the YS200/100 is much more than just a matter of pressing the keys of the keyboard. An entire arsenal of performance controls are at your command for extraordinary expressive power.

A pitch bend wheel lets you bend notes as you play, much as a guitarist does. The modulation wheel allows you to add vibrato, tremolo, or other LFO effects to your performance as well. You can make a voice change its volume and tone depending on how fast you strike the keys. On the YS200, you can even change the sound by pressing down hard on the keyboard. And a breath control function on both instruments allows you to use your own wind power to make the sound louder, brighter, or give it vibrato.

And since all function data is stored with voice data in preset memory, each voice can be set to have its own performance control functions. Functions that are useful in live performance, such as polyphonic/monophonic play, pitch bend, LFO modulation and key transposition settings —and all of them can be instantly recalled with each voice.

Simultaneous Eight-Voice Play: Multi Mode Operation

What does Multi Mode operation mean? It means eight independent instrument voices. All playable at the same time. From different parts of the keyboard, or in thick and gorgeous layers of sound.

Program, for example, a monophonic bass voice to the lowest octave on the keyboard, with a piano voice in the next two-and-a-half octaves, and a trumpet voice at the top. Or set three different string voices to sound at the same time, for an unbelievably rich recreation of a full string section.

The Multi Mode function can also be used with an external sequencer (or the on-board sequencer of the YS200) to simultaneously play back eight different instrumental parts.

EASY EDIT   PLAY

- EG TR1
- TONE TR2
- LFO TR3
- NAME TR4
- EFFECT TR5
- PRESET TR6
- USER TR7
- CARD TR8
- SAVE LOAD VOICE
- JOB

DEMO PLAY

All parameters of the sound are displayed on a large backlit LCD (liquid crystal display). Simply press the arrow-shaped buttons just beneath the display to select and adjust those parameters. Because of the logical operation layout and the large display, you're never more than a single button press away from the value you want to edit.

For those who need more than just the basics, there are additional editing operations in the Job Mode. These give you access to some of the instrument's more sophisticated features, such as performance controllers, MIDI control, split operations and all Multi Mode functions.

And no matter what operation mode you are using, one press of the extremely convenient Exit button immediately returns you to your originally selected voice.

All the power of FM synthesis, made famous by the Yamaha DX-series synthesizers, is literally right at your fingertips in a greatly simplified, streamlined voice editing system.

Now it's far easier and faster than ever before to edit FM voices. You don't have to try to think like a digital synthesizer to operate one. Press or hold down a button—the voice changes instantaneously allowing you to easily create the sound that you want. This also gives you the creative potential of stumbling upon unusual and unexpected voice possibilities faster than ever before.

The heart of this system is in the Easy Edit modes. The most important aspects of sound creation are controlled by these five modes: EG, TONE, LFO, NAME, and EFFECT. Make a voice brighter in tone. Give it a different kind of waveform to change the sound quality. Extend the sustain of the sound, or program it for a quick percussive attack. You can even set how much reverb is applied to it.

The YS200 takes you even further in your creative explorations with a built-in eight-track MIDI sequencer. With it, you can record your keyboard performances. And hear them played back with all their original subtle nuances. The sequencer even lets you create songs in sections, for richly textured music.

Sequencer Editing Features

In recording and playback, the YS200 is right on the beat, even when you're not. The sophisticated Quantize feature makes this possible. It automatically corrects the playback timing of the notes that you recorded.

With Quantize, you can "clean up" tracks of your music that aren't precisely in time—for example, ensure that recorded percussion sounds always "land on the beat," or fix any rhythmic mistakes you made in a track without having to record that track over again. Quantize is also an excellent means for creative exploration. Completely transform the "feel" of a recorded track with it—and create unique and unexpected melodic patterns and riffs.

Compositional flexibility is also enhanced by the Erase, Copy, Delete, and Insert functions. With these, you can "cut and paste" sections of your song and move them around freely. Put measures in wherever you want them. And throw measures away wherever you DON'T want them. Or open up a silent space in a track for recording another part. Song writing and recording has never been faster or easier.

Recording Flexibility: Normal, Step Time, and Punch in Modes

Normal recording lets you record notes as you play—exactly as you would do when recording with a tape recorder. Step Time recording, on the other hand, allows you to enter the notes individually. It's the same as writing the notes on a score sheet and it gives you precise control over timing and pitch. It is especially convenient as a way to record passages that are too difficult to execute in real time.

And when you need to re-record certain sections of a song, Punch In recording comes in handy. Fix small mistakes or make changes in a track quickly—without having to go to the trouble of recording the entire track again.

Part Type Function for Quick Recording Setup

When the inspiration hits you and your ready to record, you want to be able to do it right away. Any time spent preparing to record is time wasted. That's why we included the helpful Part Type function. Part Type lets you select from seven different pre-arranged track assignments, depending on the type of song or instrumentation you intend to use. Simply press the Record button, select the Part Type, and hit the Start button—and you're recording. That's all there is to it!

Comprehensive MIDI Control

MIDI is a "language" through which all kinds of digital musical equipment can communicate. The YS200's extensive MIDI features enable it to be used as a master controller in a sophisticated MIDI system—playing other synthesizers, controlling rhythm machines, and even keeping in time with additional external sequencers and tape recorders. The possibilities are truly endless, and the YS200 can do it all!

- EXIT
- STORE

7 8 9
4 5 6
1 2 3
0 − +

COMPARE

ERASE
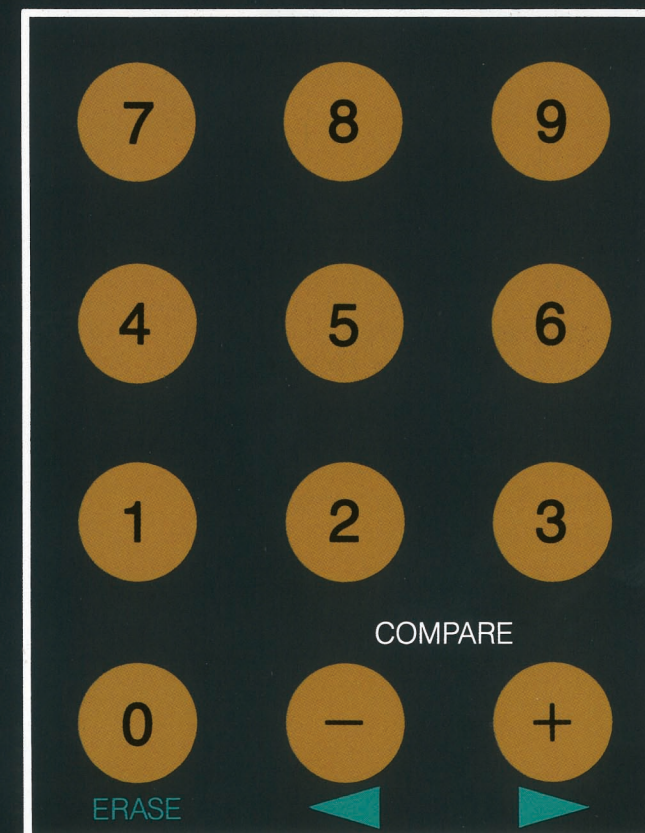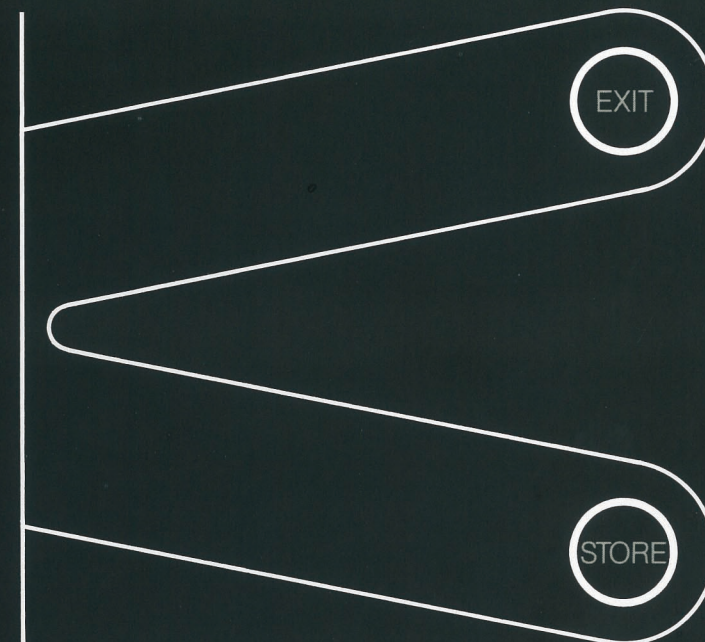
SPECIFICATIONS
VOICE LIST

00	Elegant	25	FloatChime	50	Guitar 1	75	Sax 1
01	SoftBrass	26	Daybreak	51	Guitar 2	76	Sax 2
02	WideString	27	Tinqule	52	E.Guitar 1	77	Oboe 1
03	Cosmic	28	SandBell	53	Harp 1	78	Clarinet
04	LargePipes	29	Suspense	54	Koto	79	Flute
05	SynString 1	30	Fog	55	Marimba	80	Recorder
06	FolkGuitar	31	HuskyVoice	56	Violin 1	81	Harmonica 1
07	Piano 1	32	Swirlies	57	Cello 1	82	Whistle
08	E.Piano 1	33	HuskyChoir	58	CelloEns.	83	Castanet
09	DistGuitar	34	PluckBrass	59	UpriteBass	84	Triangle
10	SoftString	35	AngelChoir	60	E.Bass 1	85	BellTree
11	SynString 2	36	FluteVoice	61	E.Bass 2	86	Referee
12	RichString	37	SmallPipes	62	SynBass 1	87	SteelDrum 1
13	SynBrass 1	38	E.Organ 1	63	SynBass 2	88	SteelDrum 2
14	SynBrass 2	39	E.Organ 2	64	SynBass 3	89	Ricochet
15	SynBrass 3	40	Piano 2	65	SynBass 4	90	Zap
16	BrethBrass	41	E.Piano 2	66	SynBass 5	91	Shwhap
17	SoftEns.	42	WireBrass	67	NasalLead	92	PoundWood
18	WarmEns.	43	EasyClav	68	SolidLead	93	OilDrum
19	OrchesEns.	44	FunkyClav	69	ClariLead	94	SynSnare
20	Sunbeam	45	Harpsichord	70	Trumpet 1	95	DragonHit
21	Shimmer 1	46	Vibe	71	TightBrass	96	DuneHit
22	SoftCloud	47	Celeste	72	Trombone 1	97	Warp
23	Bamarimba	48	TubeBell	73	Horn 1	98	IceAge
24	Sandarimba	49	MusicBox	74	Horn 2	99	Encore

Keyboard
61 keys with initial touch (YS200, with after touch)

Sound Source
FM tone generation; 4-operator/8-algorithm, simultaneous 8 notes output

Internal Program RAM
100

Internal Program ROM
100

External Memory
RAM/ROM card (32 kBytes), for programs (100 programs × 1 bank),
for sequencer (YS200 only; to save 1 song bank to internal memory)

Display
LCD: 40 characters × 2 lines

Controls
Rotary volume, pitch bend wheel, modulation wheel

Front Panel Terminals
Phones × 1
Breath Control × 1 (for optional BC-1, BC-2 Breath Controller)

Rear Panel Terminals
Output L/R
Volume × 1 (for optional FC-7 Foot Controller)
Sustain × 1 (for optional FC-4, FC-5 Footswitch)
MIDI IN × 1
MIDI OUT × 1
MIDI THRU × 1

Power Requirements
General Models 220-240 V, 50/60 Hz.
U.S. & Canadian Models 120 V, 50/60 Hz.

Power Consumption
15 W

Dimensions (W × D × H)
990 × 320 × 105 mm (39 × 12-5/8 × 4-1/8")

Weight
6.9 kg (15 lb 3 oz)

Optional Accessories

❶ **MCD32**
Memory card
❷ **KS10**
Keyboard Speaker
❸ **LG8**
Keyboard stand
LC-YS1
Semihard case
SC-YS1
Soft case

Specifications subject to change without notice.

For details please contact:

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