



Full Synthesizer Performance You Can Take Anywhere

The CS01 is a unique high-performance monophonic synthesizer that offers an extensive range of voice parameters, a 32-key keyboard, pitch and modulation wheels, plus several features many of the most sophisticated synthesizers don't even provide. Yet this remarkable music instrument is a mere 19-1/4" wide by 6-3/8" deep. Advanced Yamaha electronic music technology has managed to pack an amazing amount of synthesizer performance and versatility into an exceptionally compact, convenient package. And, since the CS01 has an amplifier and speaker system built in, you don't need any extra equipment to make the most of this remarkable little keyboard. It runs with an AC

adaptor or batteries, so you can take the CS01 with you anywhere. Practice in the park, play at parties, or compose at your favorite campsite. And, using the CS01 in conjunction with other Producer Series components gives you extra versatility for group performance or home recording. Despite its small size, the CS01 still offers the fine overall sound quality necessary for professional performance. Of course, if you've never used a synthesizer before, the CS01 is the perfect introduction to the fascinating world of musical sound synthesis. Whether you're a newcomer to music, or an accomplished multi-keyboardist, the CS01 can greatly increase the scope of your musical world.

Breath Control System

This is a new, unique Yamaha synthesizer feature that lets you control the CS01's VCA (Voltage Controlled Amplifier) and VCF (Voltage Controlled Filter) using your breath via the optional BREATH CONTROLLER. This permits a broad range of expressive capability while leaving both hands free for keyboard and control operation.

@ Pitch Bend and Modulation Wheels

Both the Pitch Bend and Modulation wheels let you alter the CS01 sound while playing the keyboard. Rolling the Pitch Bend wheel up raises the instrument's pitch. Rolling the Modulation wheel up causes a corresponding increase in the amount or "depth" of LFO modulation applied to the VCO or VCF.

8 LFO (Low-Frequency Oscillator)

The LFO can be used to modulate the pitch of the CS01 VCO, as well as the VCF cutoff frequency for an incredibly broad range of sonic possibilities. The LFO control adjusts the speed of the low-frequency oscillator, while the modulation wheel controls the amount of modulation.

⊕Glissando

Another rather unique synthesizer feature, the Glissando control creates a step-wise (half-tone steps) slide between notes played on the keyboard. The position of this control determines how long it takes to slide from one note to the next.

Pitch

Adjusts the overall CS01 pitch. Can be used to tune the CS01 to other instruments when playing in an ensemble.

(a) Feet

The Feet selector determines the range of the keyboard. 4 feet is the highest keyboard range while 32 feet is the lowest. In the 8-feet position, for example, each note on the keyboard is one octave lower than it would be in the 4-feet position, and one octave higher than it would be in the 16-feet position. There's even a white noise generator for creating the sound of wind, surf, storms and other special effects.

Wave

Determines the basic waveform or "shape" of the signal generated by the CS01's VCO—a critical parameter in determining the final overall sound. The triangular(\(\)) waveform, for example, creates a smooth, clean sound that is great for synthesizing the sound of a flute. The sawtooth(\(\)) waveform is perfect for brass and string instruments, while the rectangular(\(\) \(\) \)) waveform is great for imitating wind instruments. A rectangular waveform is also provided that permits pulse width modulation.

PWM (Pulse Width Modulation)

Varies the "duty cycle" of the rectangular (nu) waveform. Using the PWM SPEED to slowly modulate the pulse width of the rectangular waveform can create pleasant swirling "chorus" effects.

WCF Cutoff

This function plays a major role in shaping the synthesized sound. By adjusting the cutoff frequency of the voltage controlled filter, certain harmonics of the original waveform (determined by the WAVE control) are eliminated, dramatically altering the quality of the sound. The filter cutoff frequency can also be adjusted via the Breath Control system or Modulation wheel.

Resonance

This function emphasizes frequencies in the vicinity of the VCF cutoff frequency. This results in a sharper overall sound, and "wilder" tonal variation when the VCF cutoff frequency is varied either via the Cutoff control, Breath Control system or Modulation wheel.

EG (Envelope Generator)

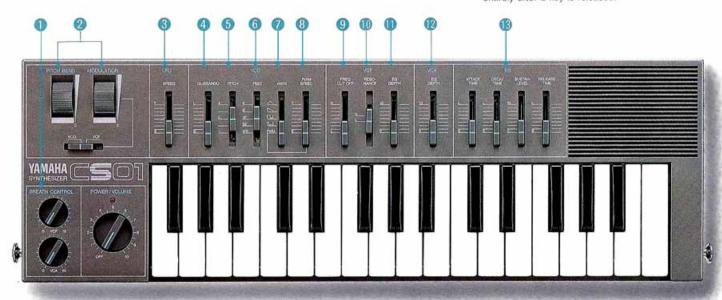
Determines the degree of effect the CS01 envelope generator (ADSR section) has on the VCF.

W VCA (Voltage Controlled Amplifier)

Determines the depth of the volume envelope effect created by the ADSR controls.

(B ADSR (Attack, Decay, Sustain, Release)

These controls adjust the volume and filter envelope of each note. Attack determines how fast the VCF cutoff frequency and VCA reach maximum variation once a key is pressed, Decay sets the speed with which the envelope decays to its sustain level after maximum attack is reached, Sustain sets the sustain level to be held once initial decay has ended, and Release determines how long it takes for the envelope to diminish entirely after a key is released.





The CS01 can be played slung from your shoulder. Pitch and modulation wheels are conveniently located for left-hand operation.



Battery power lets you play case) anywhere, anytime.

OTHER Producer Series COMPONENTS



MM10 Portable Mixer Input: 4 ch. (Volume,

Panpot, Mic/Line), Aux In x 2 (with 1 volume) Output: Program Out x 2 (with Master Volume) Line Out x 2 Battery (6F22 x 1) or AC Adaptor



MA10 Headphone Amplifier

Controls: Volume, Master Volume, Treble, Bass, HP Level, Aux In, Monitor In 1/2

Jacks: Input, HP Out 1/2, Monitor In 1/2, Monitor Out 1/2. Aux In L/R, Line Out L/R

Ambience Effect, Battery ("R6" x 6) or AC adaptor

MA10/MM10 Dimensions: W223.5 x H52 x D129.5 (mm)

MH10 Stereo Headphones

- · Light weight, supercomfortable.
- · Ideal for music instrument monitoring.



BC1 Breath Controller (Standard accessory: soft

OPTIONAL ACCESSORIES

PA-1 AC Adaptor Please use standard AC adaptor PA-1 with the CS01.



SC-01 Soft Case

- · Convenient snap-down headphone strap and cord pocket.
- . The case strap can be detached and used as a shoulder strap with the CS01.
- . BC1 soft case can be attached.

Keyboard	32 Keys, F ₂ - C ₈
LFO	Speed
GLISSANDO	Speed
vco	PITCH0-+
	FEET 4', 8', 16', 32', WN
	WAVE A, N. N. , N. , PWM
	PWM Speed
VCF	CUT OFF L-H
	RESONANCE H/L
	EG DEPTH 0~10
VCA	EG DEPTH 0-10
EG	ATTACK TIME S-L
	DECAY TIME S-L
	SUSTAIN LEVEL 0~10
	RELEASE TIME S-L
Wheels	PITCH BEND
	MODULATION
	VOO/VCF
BREATH CONTROL	VCF 0-10
	VCA 0-10
POWER SWITCH/VOLUME	0-10
Side Panel	LINE OUT 10k Ω
	PHONES 8 ~ 150 Ω
	DC IN (use PA-1 adaptor)
	BREATH CONT. IN BC1
Power Source	"R6" battery x 6 (9 V)
	AC Adaptor PA-1 (DC 12 V, 300 mA)
Power Consumption	No Output, 550 mW
	Maximum Output, 2700 mW
Dimensions (W×H×D)	489×36×160 mm (19-1/4"×1-1/2"×6-3/8")
Weight	1.5 kg (3 lbs. 5 oz.)
Accessories	Breath Controller BC1
	AC Adaptor PA-1
	Soft Case SC-01
	Stereo Headphone MH10

For details please contact:



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