HS Series

YAMAHA ELECTONE*

A Legend Reborn



YAMAHA

Once upon a time, Yamaha created a concept that became a musical legend...

The concept was an organ that would be much more than just an organ.

The concept was an instrument that would provide the power of an entire orchestra.

The name of that concept was the Yamaha *Electone*.

The Yamaha Electone soon became the bestselling electronic organ on earth; it became a musical legend.

Now that legend has been reborn—in the HS Series Electones.

HS Series Electones open a brand new chapter in the grand tradition of the Electone—a chapter defined by a bold new design that reflects a high-tech revolution inside.

That revolution brings you—in all five HS Series models—one of the most powerful entertainment centers the world has ever seen.

It brings you incredible sound with advanced AWM and FM tone generation, and highly-efficient tuned bass reflection-type speakers.

It brings you exciting new possibilities in musical expression too, with 49-key touch-sensitive keyboards, clean and clear digital effects, and an enormous range of AWM keyboard percussion.

It also brings you creative freedom, with rhythm and chord programming, FM voice editing capabilities, and song multi-tracking features.

And it brings you almost infinite system expansion with the awesome power of MIDI.

The HS Series Electones have unlocked the door to a whole new dimension in electronic sound.

They've started the legend all over again.



Incredible Sound

The power of the HS Electone begins with its sound—the incredibly true-to-life sound of Yamaha's advanced AWM and FM tone generating processes (see box).

The vast selection of musical instrument voices—those on the panel plus the 59 in the Multi-Menu—range from traditional strings and brass to contemporary electric piano and synthesizer sounds.

All FM tone groups have a memory space for transferring voices in from the Multi-Menu.

You can assign these sounds to any keyboard—even the pedals. You can mix them too, and spice them up with a variety of clean, clear digital effects* like tremolo, chorus, symphonic, flanger, and delay—which use the same advanced digital signal processing as Yamaha's professional effects devices.

The HS-8 even has stereo digital reverb, which adds the true ambiance of a real concert hall to your sound.

^{*} Some models incorporate different effects configurations than others. For complete information, see Model Comparison Chart.





for musical instrument voices and AWM™ for percussion instrument sounds (plus special preset instrument voices for the HS-8).

FREQUENCY MODULATION

FM (Frequency Modulation) tone generation is Yamaha's advanced digital

process that precisely matches the shapes of an instrument's sound waves and controls the complex harmonics as they change through their decay period. Since FM voices have the same physical sound characteristics as the instruments they represent, they sound amazingly real. Not only that, they let you create your own instrument sounds.

AWM™ (Advanced Wave Memory) tone generation is Yamaha's breakthrough process that uses actual musical instruments to create



sound. AWM™ instruments sound real because they are real.

Sound **Editing**

The Voice Edit menu (see Multi-Menu section) brings out the creative

Lead Slide lets you add portamento to the monophonic Lead instruments. This lets you reproduce the slurring effects of trombones, trumpets, saxophones, etc.

Multi-function pitch bend and modulation wheels (HS-8 only) give you even further expressive freedom. The pitch wheel bends Lead or Upper Orchestral notes, and also controls rhythm tempo. The modulation wheel controls the vibrato or the brilliance of the Lead or Upper Orchestral instruments. An optional second expression pedal (HS-8 only) lets you control the wheel functions by foot.

Real-time Drumming

The Keyboard Percussion feature turns the HS Electone's lower and pedal keyboards into drums.

Since all drum sounds are generated by Yamaha's unique AWM process, you can make them louder or softer depending on how hard you hit the keys.

There are 34 different drum and percussion sounds—everything from conventional bass drum, snare, toms and cymbals to latin timbales and congas, and even modern electronic snare and toms.

You can store data for your voices, registrations, rhythms, and songs with convenient RP-3 and RP-5 RAM packs. (You can also save them digitally on cassette tape.)

genius in you by letting you change the preset FM voices.

Just like a synthesizer, the voice editor lets you access each FM operator and adjust its output level and envelope generator parameters in order to "personalize" the instrument tone colors, or create entirely new sounds.

You store your new voices in User Voice memory banks.

Rhythm Creation

With the HS Electone you're not limited to the preset rhythm patterns; you can create your own.

You can create your own chord patterns, too.

The Multi-Menu's Rhythm Pattern and Rhythmic Chord

Programmers (R.P.P., R.C.P.) let you modify the existing preset rhythm and chord patterns or create your own from scratch.

You can add accents too, and even designate stereo panning. A time quantizing feature helps you keep your rhythms right on the beat.

Song Programming

The HS Series Electone offers easy-to-use song programming features that help



The Registration Memory is a series of memory banks where you can preprogram entire panel settings for instant recall during performance.

Automatic Accompaniment

The HS Electone has wide-ranging automatic accompaniment

features that give you the power of an ensemble, or even an entire orchestra.

It comes with more than a dozen basic preset rhythm patterns, plus variations that add up to 50 rhythms.

These patterns cover a

broad range of rhythmic styles—everything from traditional waltz and swing to contemporary 8-beat, 16-beat and more.

The Auto Bass Chord (A.B.C.) system adds matching bass and chord patterns to your rhythm foundation, giving you a back-up band accompaniment that you can control with one finger (or more).

The Arpeggio Chord feature adds melodic chords to the back-up.

The Melody On Chord (M.O.C.) system automatically transforms

you learn, practice, compose and even perform.

The Chord Sequence Programmer (C.S.P.) lets you program sequences of chords for an entire composition in step-time—one measure at a time—complete with registration changes.

In the same way, the Rhythm Sequence Programmer (R.S.P.) lets you program the corresponding sequences of rhythm patterns.

The Full Music Programmer (F.M.P.), a five-track digital recorder, lets you record a song's Upper,

Lower, Pedal and Lead parts, plus registration changes. You can go back and change any part without affecting the others.

Expand

With its MIDI jacks, the HS Electone can synchronize with and control or be controlled by other MIDI-equipped Electones or Yamaha Electone expanders like the MDR-2P music disk recorder, external AWM and FM tone generators, and more.

The HS can also synchronize with other MIDIequipped instruments like synthesizers, portable keyboards and digital pianos, as well as devices like music sequencers, digital effectors, and even computers.



All HS Electones come with MIDI In and Out jacks for synchronization with other MIDI-compatible instruments.

upper keyboard singlenote melodies into full harmonies—contoured by the chords you play on the lower keyboard.

Footswitching

The multi-function footswitch (located on the expression pedal) lets you control rhythm



The HS-8's main expression pedal incorporates two multi-function footswitches. An optional second expression pedal (HS-8 only) controls wheel functions and rhythm tempo.

stopping, ending and fillins, as well as Lead, Upper Orchestral and Lower Orchestral Glide by foot.

You designate the footswitch's function with the Multi-Menu.

The HS-8 features a second footswitch that lets you call up registration memories in sequential order.

Flexibility: The Amazing Multi-Menu

All HS Electones feature a highly intelligent master cylinder—the Multi-Menu.

Located just above the upper keyboard and accessed via a convenient thumbwheel, the Multi-Menu incorporates 12 'pages' of ten menus with extremely broad-based features.

While at first glance the Multi-Menu appears complicated, in actual operation it's very simple. Used in conjunction with the panel features, it expands your music making potential enormously.

Following is a brief outline of its menus:

1. The REGISTRATION MENU is a selection of 38 preset panel setups—suitable for a wide range of popular musical styles—ready for *instant* recall.



2. The VOICE MENU is a bank of 59 additional preset instrument sounds that are all transferrable to any FM tone group on the panel.

3. The VOICE EDIT MENU is a means of altering, or *personalizing*, the tone color of the preset FM instrument sounds.

4. The RHYTHM MENU is a bank of two or more variations for the preset rhythms located on the



The Multi-Menu pages shown above are for the HS-8 Electone. Features are the same for all models except for page 2 (the HS-4 has five Cosmic voices), page 11 (only the HS-8 has pitch bend and modulation wheels), and page 12 (the HS-4 comes without Flanger/Delay).

Connect

All HS Electones incorporate a variety of RCA-type inputs and outputs, like stereo auxiliary out jacks and an Exp. In jack (for controlling an external device's volume with the main expression pedal).

The HS-8, HS-7, and HS-6 feature a stereo headphone jack, as well as stereo auxiliary in jacks

(for mixing an external instrument or device with the HS).

The HS-5 and HS-4 feature mono headphone and auxiliary in jacks.

The HS-8 also features phone-type stereo auxiliary and rhythm out jacks.

Cover

All HS Series models come with an acrylic

cover that protects the Electone from dust, and lifts to double as a convenient music stand.

Input and output jacks for the HS-8.





panel; it expands the HS's selection of presets to a total of 50 rhythms.

- **5.** The RHYTHM PATTERN PROGRAMMER, RHYTHMIC CHORD PROGRAMMER MENU is a dual-function menu. The R.P.P. lets you modify any existing rhythm, or create your own from scratch. The R.C.P. lets you preprogram block and arpeggio chords that automatically synchronize with the rhythm during playback.
- **6.** The CHORD SEQUENCE PROGRAMMER, RHYTHM SEQUENCE PROGRAMMER MENU is also dual-functional. The C.S.P. lets you preprogram—step by step, one measure at a time—a series (or sequence) of chords for automatic playback. In the same way, the R.S.P. lets you preprogram sequences of rhythm patterns for automatic playback. You can store both C.S.P. and R.S.P. data in RP-3 or RP-5 RAM packs, or digitally on cassette tape.
- 7. The FULL MUSIC PROGRAMMER MENU is a digital multi-track recorder. It lets you record and edit the different parts for your composition. You

can store your F.M.P. data in RP-5 RAM packs, or digitally on cassette tape.

8. The VIBRATO, SUSTAIN, TREMOLO, TOUCH MENU is a multi-function menu. It lets you select parameters for the vibrato, sustain and tremolo effects, activate Touch Vibrato and Touch Tone, and select MIDI modes.

RHYTHM ENDING FILL IN FILL IN USER -- GLIDE LEAD -- PITCH WHE STUP 2 FILL IN LEAD U.ORC. L.ORC. SLIDE LEAD U.ORC.

9. The FOOTSWITCH, (PITCH WHEEL, MOD-ULATION .WHEEL,) TRANSPOSITION, PITCH CONTROL MENU is also a multi-function menu. It lets you designate the functions of the footswitch (and pitch and modulation wheels for the HS-8), as well as transpose the key and fine tune the pitch.

10. The AUTO BASS CHORD, MELODY ON CHORD, FLANGER/DELAY, VOLUME FINE MENU is also multi-functional. It lets you select the different A.B.C. and M.O.C. modes, program parameters for the flanger and delay effects (all models except the HS-4), and control each volume level in fine increments.

SINGLE FINGERED CLISTON — MEMORY—
FINGER CHORD AEC. LOWER PEDAL 1 2 3 CONTROL FLANSER DELAY SPEED FB. DEP/BAL

Model Comparison Chart





3999

			HS-8	HS-7
KEYBOARDS			(Upper, Lower & Pedal: Initial/After touch)	
Orchestral Voic		Orchestral Voices	(Opper, Lower & Fedar, Illitial/After touch)	Strings, Brass, Wood, Vocal, Volume
	Upper Keyboard	Combination Voices	1, 2, 3, 4, Volume	
VOICE SECTION		Orchestral Voices	Strings, Brass 1, 2, \	
	Lower Keyboard	Combination Voices	1, 2, 3, 4, Volume	
		AWM Preset	Piano, Strings, Pipe Organ, Brass, Volume	nume
	Upper/Lower Keyboard	Lead Voices	Times, Strings, tipe Organ, Diass, Tolumb	Flute, Oboe, Trum
		Percussive Voices	_	Tide, Oboe, Irani
	Pedal Keyboard	AWM Bass Voices	Wood Bass, String Bass, Volume	
		Bass Voices	Wood Bass, String Bass, Volume	
ENSEMBLE	Upper Keyboard	Duss rolleds	Orches., Combi., AWM Preset, Lead	Percussive, Lo
SECTION	Lower Keyboard		Orches., Combi., AWM Preset, Lead	Percussive, Lead, Combi., Orches.
	HORD SECTION	Lower Keyboard	oronom, conton, recent reset, feat	releasing, Lead, Collins., Offices.
20010 01		Tremolo & Symphonic	Chorus, Tremolo, Upper Combi., Lower Combi., Celeste, Symhonic, Upper Orch	
		Sustain	Choras, frentoio, opper Conton, Lower Conton, Celeste, Symmonic, Opper Orch	
		User Vibrato		
EFFECTS		Flanger/Delay	Upper Orches., Lower Orches., Lead, Arpeggio Chord, AWM Preset, AWM Bass	Upper Orches., Lower Orch
		Others	Manual Balance, Reverb, Modulation Selector & Wheel, Pitch Selector & Pitch Bend Wheel	
		Rhythms	March, Waltz, Ballad, Sw	
AUTO RHYTH	M SECTION	Variations		
		Others	Start, Synchro Start, Tem	
KEYBOARD PERCUSSION SECTION		Lower/Pedal	Lower Keyboard Percussion Selector, Pedal Keyboard Percussion Sel Surdo Open; Timbales: Low, High; Conga: Low, High; Bongo: Low,	
REGISTRATION MEMORY SECTION			Memory/To Pack, 1-16	
C.S.P./R.S.P. (Chord Seq. Progr./Rhythm Seq. Progr.)		ythm Seq. Progr.)		
F.M.P. (Full Mus	sic Programmer)			
A.B.C. (Auto Bas				
M.O.C. (Melody	-			
	N PACK SECTION	N		
AWM VOICE PACK SECTION			Pipe Organ 1, Brass 1, String Bass 1, 3 Voice Pack Sockets	
MULTI-MENU	SECTION		· ·	
OTHER CONTROLS			Master Volume, Expression Pedal, Foot Switch Selector (Left: Rhythm Fill In, Stop, Ending; Glide/ Right: Registration Shift), Guide Display, Power Switch, Knee Lever (for Sustain)	
OTHER FITTINGS			MIDI In/Out, Headphones Jack, Mic., Mic. Vol., Rhythm Out (L & R), Aux. Out (L & R), RCA Aux. In/Out (L & R), RCA Exp. In, From/To Cassette, Music Stand, Bench, 2nd Expression Pedal (Option)	MIDI In/Out, Headpho In/Out (L & R), RCA Exp.
SOUND	Power Amplifier			30W×2
SYSTEM	Speakers			$20cm (7.9") \times 2; 5cm (2") \times 2$
DIMENSIONS	Width × Depth ×	Height		
WEIGHT			79.5kg (174.9 lbs.)	74.
FINISH				

Model Comparison Chart





3999

			HS-8	HS-7
KEYBOARDS			(Upper, Lower & Pedal: Initial/After touch)	
Orchestral Voic		Orchestral Voices	(Opper, Lower & Fedar, Illitial/After touch)	Strings, Brass, Wood, Vocal, Volume
	Upper Keyboard	Combination Voices	1, 2, 3, 4, Volume	
VOICE SECTION		Orchestral Voices	Strings, Brass 1, 2, \	
	Lower Keyboard	Combination Voices	1, 2, 3, 4, Volume	
		AWM Preset	Piano, Strings, Pipe Organ, Brass, Volume	nume
	Upper/Lower Keyboard	Lead Voices	Times, Strings, tipe Organ, Diass, Tolumb	Flute, Oboe, Trum
		Percussive Voices	_	Tide, Oboe, Irani
	Pedal Keyboard	AWM Bass Voices	Wood Bass, String Bass, Volume	
		Bass Voices	Wood Bass, String Bass, Volume	
ENSEMBLE	Upper Keyboard	Duss rolleds	Orches., Combi., AWM Preset, Lead	Percussive, Lo
SECTION	Lower Keyboard		Orches., Combi., AWM Preset, Lead	Percussive, Lead, Combi., Orches.
	HORD SECTION	Lower Keyboard	oronom, conton, recent reset, feat	releasing, Lead, Collins., Offices.
20010 01		Tremolo & Symphonic	Chorus, Tremolo, Upper Combi., Lower Combi., Celeste, Symhonic, Upper Orch	
		Sustain	Choras, frentoio, opper Conton, Lower Conton, Celeste, Symmonic, Opper Orch	
		User Vibrato		
EFFECTS		Flanger/Delay	Upper Orches., Lower Orches., Lead, Arpeggio Chord, AWM Preset, AWM Bass	Upper Orches., Lower Orch
		Others	Manual Balance, Reverb, Modulation Selector & Wheel, Pitch Selector & Pitch Bend Wheel	
		Rhythms	March, Waltz, Ballad, Sw	
AUTO RHYTH	M SECTION	Variations		
		Others	Start, Synchro Start, Tem	
KEYBOARD PERCUSSION SECTION		Lower/Pedal	Lower Keyboard Percussion Selector, Pedal Keyboard Percussion Sel Surdo Open; Timbales: Low, High; Conga: Low, High; Bongo: Low,	
REGISTRATION MEMORY SECTION			Memory/To Pack, 1-16	
C.S.P./R.S.P. (Chord Seq. Progr./Rhythm Seq. Progr.)		ythm Seq. Progr.)		
F.M.P. (Full Mus	sic Programmer)			
A.B.C. (Auto Bas				
M.O.C. (Melody	-			
	N PACK SECTION	N		
AWM VOICE PACK SECTION			Pipe Organ 1, Brass 1, String Bass 1, 3 Voice Pack Sockets	
MULTI-MENU	SECTION		· ·	
OTHER CONTROLS			Master Volume, Expression Pedal, Foot Switch Selector (Left: Rhythm Fill In, Stop, Ending; Glide/ Right: Registration Shift), Guide Display, Power Switch, Knee Lever (for Sustain)	
OTHER FITTINGS			MIDI In/Out, Headphones Jack, Mic., Mic. Vol., Rhythm Out (L & R), Aux. Out (L & R), RCA Aux. In/Out (L & R), RCA Exp. In, From/To Cassette, Music Stand, Bench, 2nd Expression Pedal (Option)	MIDI In/Out, Headpho In/Out (L & R), RCA Exp.
SOUND	Power Amplifier			30W×2
SYSTEM	Speakers			$20cm (7.9") \times 2; 5cm (2") \times 2$
DIMENSIONS	Width × Depth ×	Height		
WEIGHT			79.5kg (174.9 lbs.)	74.
FINISH				





HS-5



3299

HS-6

115 0	H3-3	H5-4	
Upper: 49 Keys (C2-C6), Lower: 49 Keys (C1-C5), Pedal: 20 K	Keys (C ₀ -G ₁)	•	
(Upper & Lower: I	nitial/After touch)		
	Strings, Brass 1, 2, Wood, Vocal, Combi., Volume	Strings, Brass 1, 2, Wood, Combi. 1, 2, Volume	
		_	
Strings, Brass 1, 2, Voc	cal, Combi. 1, 2, Volume	Strings, Brass 1, 2, Piano, Combi. 1, 2, Volume	
	_		
Trombone, Volume		Flute, Oboe, Trumpet, Trombone, Upper, Lower, Volume	
Piano, Vibraphone, Jazz Guitar, Guitar, Volume		Flute, Oboe, frumpet, frombone, Opper, Lower, Volume	
Tians, Violaphone, sazz Gartai, Gartai, Volume	_	_	
Contra Bass 1, 2, Electric Bass, Tuba, Volume			
Combi., Orches.	Percussive, Lead, Orches.	_	
Percussive. I	Lead, Orches.		
1, 2, 3, 4, User 1, 2, Volume	,		
Lower Orches.	Chorus, Tremolo, Celeste, Sympl	nonic, Upper Orches., Lower Orches.	
Upper, Upper Orches., Lower, Lower Orches., Pedal, Lead	, seemen, consequently	- FP- Common, Morror Clothes.	
Upper Orches., Lower Orches., Lead			
Lead, Arpeggio Chord	Land Armaggia Chard		
Lead, Al peggio Chold	Lead, Arpeggio Chord	_	
Manual Bal	ance, Reverb		
Bossanova, Tango, Samba, Latin, Bounce, Latin Rock, 8 Beat,	Slow Rock, Disco. 16 Beat, User 1-2		
Fill In 1, 2, User Fill In, Intro. Ending	2504 1004, 2500, 10 2001, 2001 1, 2		
Balance, Volume, Tempo Display		Start, Synchro Start, Tempo, Volume, Tempo Display	
Instruments: Bass Drum Heavy × 2; Snare Drum: Heavy × 2, Cuica: Low, High; Synth Drum: 1, 2, 3; Brush: Roll, Shot; Ton	Light, Gate Echo, Rim Shot; Hi-hat: Closed, Open; Cymbal n: 1, 2, 3; Cow Bell; Wood Block: Low, High; Agogo: Low, Hi	Crash, Ride;	
	Pack, 1-8	0,	
Song 1, 2, 3, 4, C.S.P. Play, R.S.P. Play			
Start			
On, Memory			
On			
Confirm, To Pack, From Pack, Ready, Error, RAM Pack Socke	et		
	-		
(See photo in this brochure)			
Master Volume, Expression Pedal, Foot Switch Selector (Rhyt	hm Fill In, Stop, Ending; Glide), Power Switch, Knee Lever (for Sustain)	
Jack, Mic., Mic Vol., RCA Aux. From/To Cassette, Music Stand, Bench	MIDI In/Out, Headphones Jack, Mic., Mic Vol In, From/To Casset	., RCA Aux. Out (L & R), RCA Aux. In, RCA Exp. te, Music Stand, Bench	
	30W×1		
	+	9"); 5cm (2")	
109cm (42.9") × 52cm (20.5") × 99cm (39")	1 20011 (7.5	,, (= 1	
(163.9 lbs.)	725kg	(159.5 lbs.)	
Black (Side Panels: Simulated Black Rosewood Grain)	. =1410		

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