

YAMAHA

DS55

Digital Synthesizer



The DS55: It Sounds Great, Plays Great, and Will Accompany You Anywhere

The Yamaha DS55 Digital Synthesizer makes sophisticated digital keyboard technology more accessible and easier to use than ever. This is a very responsive musical instrument that offers the fabulous Yamaha FM sound in a range of 200 superlative preset voices. An extremely "user friendly" editing system allows you to modify any of the presets, give your creations original titles and store them in any of 100 user memory locations. Creating a new voice is a fast and easy process, allowing you to make new sounds that match your own musical style. A built-in effects system adds extra warmth and ambience to the FM voices.

You can play any one of the preset voices, or choose the split or dual play modes in which you can play two voices at once — on different sections of the keyboard or together. Of course, the DS55 keyboard features full keyboard velocity response so you have the same type of delicate expressive control you'd expect from a fine acoustic piano.

In addition to outstanding sound and playability, the DS55 features an innovative Auto Performance function that can accompany you while you practice or perform solos in a wide range of musical styles. You decide on the chord progression, while the DS55 provides the orchestration. The DS55 is a digital synthesizer that offers all the ingredients required for at-home musical enjoyment as well as serious study, performance or production.

- 200 superb preset FM voices.
- Easy editing of preset voices for storage in any of 100 user memory locations.
- Single, split and dual play modes.
- Built-in effects.
- Stunning Auto Performance function for fully automated accompaniment.
- Multi-instrument mode that functions as an 8-instrument multi-voice tone generator.
- Full-size 61-key keyboard with initial touch response.
- Full MIDI compatibility and features.



200 Presets and 100 User Memory Locations

The Yamaha DS55 comes pre-programmed with 200 voices (using Yamaha's FM tone generation system) that will give you just about any sound you need for any type of music. Simulations of familiar acoustic and electronic instruments, plus a broad range of unique voices and sound effects, can be selected quickly and easily via the DS55's numeric keys.

Edit and Store the Presets to any of 100 User Memory Locations

Although the 200 presets should be enough for most applications, the DS55 also includes an easy editing system which allows you to modify the sound of the presets in a number of ways, then store the results in any of 100 user memory locations that can be accessed and recalled just as easily as the presets. Five EDIT buttons

provide access to logical groups of parameters that make it easy to create a sound that suits your requirements. If you want to make a voice a little brighter, for example, simply increase the value of the TONE parameter. If you want to actually change the timbre of the voice, use the WAVE parameter. A total of 19 different parameters provide extensive-but-simple control. When your sonic creation is complete, use the NAME function to give it an original title, then store it in the USER memory bank for instant retrieval when needed.

Single, Split and Dual Play Modes Give You a Range of Ways to Play

In addition to the SINGLE play mode — the normal play mode in which you can play a single voice with 8-note polyphony — the DS55 offers significantly enhanced performance potential with a choice of SPLIT and DUAL play modes. In the SPLIT mode you can assign different voices to the lower and upper sections of the DS55 keyboard (you can even define the split point) and play, for example, a bass voice with the left hand and a piano voice with the right. You choose the combination of voices you need for your own particular brand of music. In the DUAL mode two different voices can be combined and played across the entire keyboard. A slight amount of detune can be applied between the two voices, giving the sound extra depth and warmth.

Built-in Delay Effects for On-line Ambience

If you need a bit more depth or ambience, there's no need to rely on external effect units. The DS55 DELAY buttons give you a selection of SHORT or LONG delay programs internally. Each of the 200 presets has its own delay settings which are automatically recalled

when the voice is selected. Of course, you can turn the delay ON or OFF, or select the SHORT or LONG types at any time. Delay settings you make for voices in the USER memory bank are memorized by the DS55 and recalled with the voice for fast, fuss-free operation. The DS55 even offers a FEEDBACK control on the rear panel that can be used for fine adjustment of the overall length of the delay effects.

Auto Performance — Your Left-hand Band

Yamaha's unique Auto Performance function provides a range of 43 different sequences — in a wide range of styles — that you can select and use for accompaniment while you play or practice solo lines. Three types of Auto Performance sequence are provided:

Pattern Change

The pattern change sequences provide 13 different patterns (selected by pressing keys C1 through C2) of between 1 and 4 measures in length that can be combined to create entire compositions in a number of different musical styles. The C#1 key, for example selects an introduction, C1 selects the basic tonic pattern, the F1 key selects a subdominant pattern, G1 selects a dominant pattern, F# might select a subdominant-dominant turnaround, the D#1 key selects an ending, etc. All you need to do is to select and start the desired PATTERN CHANGE sequence, then select the desired patterns by pressing the appropriate keys.

Key Shift

The Key Shift sequences are all based on a single pattern that can be transposed to any key by pressing the appropriate key (between C1 and C2) on the DS55 keyboard. This is ideal for simple "3-chord" type progressions. The KEY SHIFT patterns are between 1 and 4 measures in length.

Arpeggio

Arpeggio, as the name suggests, produces automatic arpeggios when two or more notes are played on the lower octave of the DS55 keyboard. The DS55 automatically creates appropriate arpeggios for the notes or chord played on the keyboard.

The sequences available in the Pattern Change and Key Shift groups cover an extremely broad range of styles including blues, rock, techno-pop, fusion, 60's pop, Latin, and many, many more. Each Auto Performance sequence is beautifully orchestrated with a full range of rhythm instruments, delivering a sound that's a delight to play along with. Auto Performance is an outstanding way to polish up your solo technique.

Auto Performance Sequence list

Type	No.	Name	Number of Melody Notes*	Type	No.	Name	Number of Melody Notes*	Type	No.	Name	Number of Melody Notes*
PATTERN CHANGE	00	Cruise	1	KEY SHIFT	17	Discoman	2	ARPEGGIO	30	Meatball	2
	01	Latin	1		18	Metalkid	1		31	Elec Pop	6
	02	Swan	1		19	Heil R&R	2		32	Tube Bell	4
	03	Oh! Blues	1		20	Fusion	1		33	Pizz	2
	04	Respect	1		21	3 Finger	3		34	Brastring	2
	05	Bubble	1		22	TV Game	2		35	Syn String	2
	06	Roadstar	1		23	Soul King	1		36	Brass	1
	07	Maria	1		24	Dreaming	1		37	E. Piano	1
	08	LA Night	2		25	Country	1		38	Harp	2
	09	Japan	1		26	Nature	1		39	Syn Brass	2
	10	Memories	1		27	Dog walk	1		40	Tin Perc	2
	11	Samba	1		28	Ice Cream	2		41	Nasty	2
	12	Wendy	1		29	Ballade	2		42	Wood Perc	2
	13	Fly Away	1								
	14	Power pop	1								
	15	Salsa	1								
	16	I saw H.	1								

* Number of Melody Notes is the number of notes that can be Played simultaneously on the upper octaves of the keyboard while the Auto Performance sequence is Playing.

61-key Keyboard with Keyboard Velocity Response for Delicate Expression

The DS55's full-size keyboard gives you piano-like expressive control with keyboard velocity response. The harder you play a key, the louder the note produced will be. The actual timbre of the voice changes too, just like in an acoustic instrument. This type of touch sensitivity makes the DS55 an extremely responsive, very expressive musical tool.

Multi-instrument Mode Provides 8 Instruments for External MIDI Control

With a MIDI sequence recorder such as the Yamaha QX5FD, the DS55's Multi-instrument Mode allows it to function as up to 8 different "instruments" (8 notes total) which can be independently controlled on different MIDI channels. Here's a simple example using only 3 of the 8 possible voices. Suppose you wanted to record a sequence using a piano voice, bass, and a brass voice for the melody line. You could begin by recording the piano voice on the sequencer with the MIDI channel set to 1. When the piano track has been recorded, the next step would be to record the bass part with the MIDI channel set to 2. Finally, record the brass part with the MIDI channel set to 3. Now, before playing back the sequence, select the Multi-instrument Mode and assign three of the DS55's 8 available instruments to piano, bass and brass voices, and to MIDI channels 1, 2 and 3, respectively. The remaining 5 instruments are simply turned OFF. When the recorded sequence is then played back, the piano, bass and brass parts will be reproduced simultaneously, creating a full "trio" effect.

An Extensive Range of MIDI Functions

Naturally, the DS55 is fully MIDI compatible, and provides a number of important MIDI functions for maximum versatility in MIDI music systems. In fact, the DS55 is an ideal "nucleus" for MIDI home studios or performance systems.



DS55 Voice List

BANK A					BANK B				
00	Elegant	25	Float Chime	50	Guitar 1	75	Sax 1	00	Multi Moon
01	Soft Brass	26	Daybreak	51	Guitar 2	76	Sax 2	01	Brass Ens.
02	Wide String	27	5th	52	E. Guitar	77	Oboe	02	Syn Brass 4
03	Cosmic	28	Sand Bell	53	Harp	78	Clarinet	03	Syn Brass 5
04	Large Pipes	29	Suspense	54	Koto	79	Flute	04	Syn Brass 8
05	Syn String 1	30	Fog	55	Marimba	80	Recorder	05	Brass 1
06	Folk Guitar	31	Husky Voice	56	Violin 1	81	Harmonica	06	Brass 2
07	Piano 1	32	Swirlies	57	Cello 1	82	Whistle	07	Brass 3
08	E. Piano 1	33	Husky Choir	58	Cello Ens.	83	Castanet	08	Strings 1
09	Dist Guitar	34	Pluck Brass	59	Upright Bass	84	Triangle	09	Strings 2
10	Soft String	35	Angel Choir	60	E. Bass 1	85	Bell Tree	10	Violin 2
11	Syn String 2	36	Flute Voice	61	E. Bass 2	86	Referee	11	Cello 2
12	Rich String	37	Small Pipes	62	Syn Bass 1	87	Steel Drum 1	12	Pizzicato
13	Syn Brass 1	38	E. Organ 1	63	Syn Bass 2	88	Steel Drum 2	13	Trem String
14	Syn Brass 2	39	E. Organ 2	64	Syn Bass 3	89	Gui Roach	14	Syn String 4
15	Syn Brass 3	40	Piano 2	65	Syn Bass 4	90	Zap!	15	Syn String 5
16	Breth Brass	41	E. Piano 2	66	Bass	91	Shwhap!	16	Syn Ens. 1
17	Soft Ens.	42	Wire Brass	67	Nasal Lead	92	Poundwood	17	Syn Ens. 2
18	Warm Ens.	43	Easy Clav	68	Solid Lead	93	Oil Drum	18	Syn Voice
19	Orches Ens.	44	Funky Clav	69	Clari Lead	94	Syn Snare 1	19	Digital Vox
20	Sunbeam	45	Harpsichrd	70	Trumpet 1	95	Dragon Hit	20	Aqua
21	Shimmer 1	46	Vibe	71	Tight Brass	96	Dune Hit	21	Music Saw
22	Soft Cloud	47	Celeste	72	Trombone 1	97	Warp	22	Dolby Dream
23	Bamarimba	48	Tube Bell	73	Horn 1	98	Modern Tele	23	Digi Ens.
24	Sandarimba	49	Music Box	74	Horn 2	99	Encore	24	Metal Twang
50	Fletless B.	75	Wood Block						
51	Brass Lead	76	Bongo						
52	Fat Lead	77	Hand Drum						
53	Sax Lead	78	Cuica						
54	Rasp Lead	79	Steel Drum 3						
55	Tough Lead	80	Bass Drum						
56	Anasyn Lead	81	Snare						
57	Wow	82	Cymbal						
58	Profet Stab	83	Slap						
59	Tooty Floot	84	Timpani						
60	Trumpet 2	85	Tom						
61	Trombone 2	86	Syn Tom						
62	Flugelhorn	87	Tompany						
63	Mute Trumpet	88	Kick & HH						
64	Pan Flute	89	Syn Snare 2						
65	Bassoon	90	Syn Perc. 1						
66	Calliope	91	Syn Perc. 2						
67	Wood Ens. 1	92	Space Bell						
68	Wood Ens. 2	93	Bell						
69	Piccolo	94	Game Sound 1						
70	Glocken	95	Game Sound 2						
71	Xylophone	96	Alarm						
72	Gong	97	Thunder						
73	Cow Bell	98	White Noise						
74	Agogo Bell	99	Clash Clap						

Rear Panel



Specifications

Keyboard	61 keys with initial touch response
Tone Generator	4-operator, 8-algorithm FM
Polyphony	8 notes
Play Modes	SINGLE/SPLIT/DUAL
Preset Voices	200 in two banks (A and B)
User Memory	100 voice memory locations
Controls	Volume, pitch bend wheel, modulation wheel, delay feedback level control (rear panel)
Panel Buttons	PRESET, USER, SINGLE, SPLIT, DUAL, TONE, AMP EG, BRL EG, LFO, FUNC, TUNE, SINGLE/MULTI, CH INFO/INST, EXCLUSIVE/ASSIGN, 0-9, +1/YES, -1/NO, -, SELECT, START/STOP, DELAY ON/OFF, SHORT, LONG.
Display	16-character × 2 line LCD
Front-panel Connectors	PHONES, BREATH CONT
Rear-panel Connectors	OUTPUT L/MONO and R, SUSTAIN, FOOT VOLUME, MIDI IN/OUT/THRU, DC (10-12V) IN
Output Level	OUTPUT: -11 dBm (10 kΩ) PHONES: -5 dBm (150 Ω)
Power Supply	1.5V SUM-2 alkaline batteries × 6 (supplied), or optional PA-1, PA-1B or PA-3 AC Adapter
Dimensions (W × H × D)	970 × 270 × 100 mm (38-3/16" × 10-5/8" × 3-15/16")
Weight	6.4 kg (14 lbs 2 oz)

All specifications subject to change without notice.

Optional Accessories



Keyboard Speaker KS10

- OUTPUT POWER: 6.5W
- SPEAKER: 1 × 4" (10 cm)
1 Input Channel
- DIMENSIONS (W × H × D):
136 × 164 × 153 mm
(5-1/3 × 6-4/9 × 6")
- WEIGHT: 1.8 kg (4 lbs.)



AC Adapter
PA-3



Keyboard Stand
LG8

For details please contact:

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