



CS2x

CONTROL SYNTHESIZER

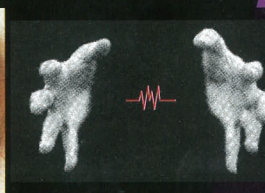
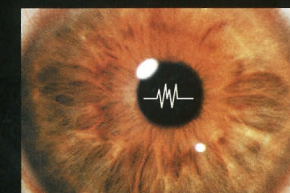


Fresh wave sounds
with deeper dimensions
designed to give **your** music
the edge that will **truly stand out**
in the crowd...

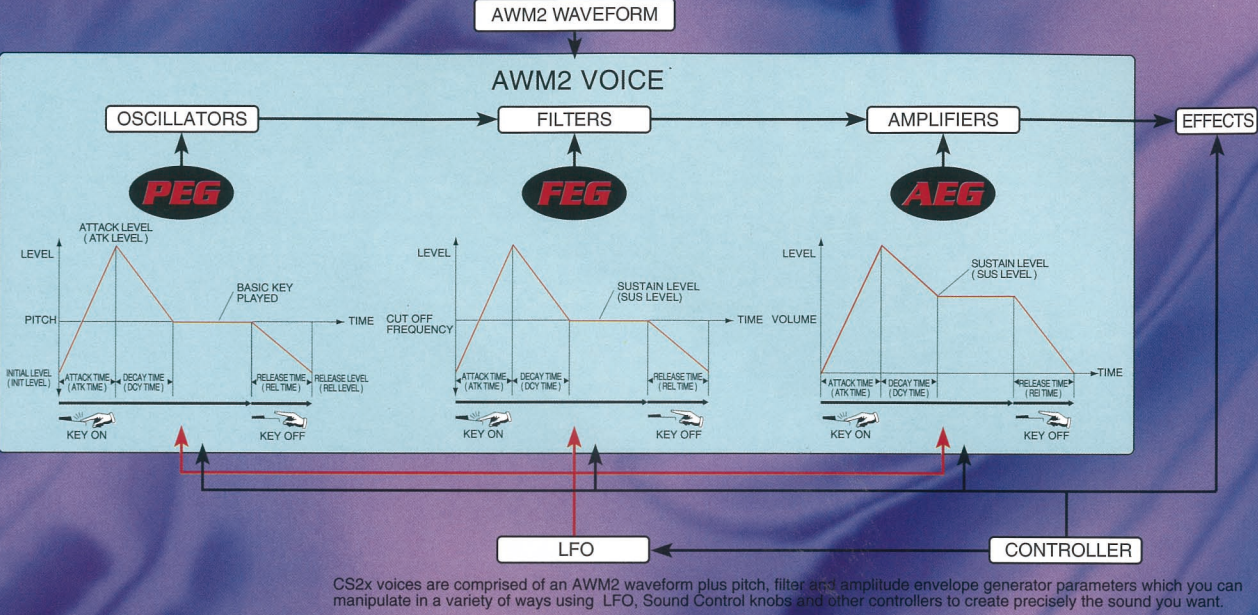
- 16 MB of hot dance music wave sounds for use with 256 cool Preset and 256 programmable User Performances, each with up to 4 freely mappable voice "Layers"
- 779 normal voices and 30 drum kits (XG format with deeper sonic dimensions), with 64 notes polyphony
- 8 realtime Sound Control knobs (2 assignable) give you total control over every contour and texture of your sound as you play
- 2 "Scene" memories in each Performance permit instant recall of favorite Sound Control knob positions, plus realtime morphing between Scenes via the Modulation Wheel
- Arpeggiator with 40 pattern types and 10 timing resolution subdivisions, plus MIDI output of Arpeggiator data

- Panel edit matrix gives you quick and easy setup and control over numerous Performance and Multi parameters
- 3 independent digital effects units which can be used simultaneously, including 12 Reverb types, 14 Chorus types and 62 Variation types
- 16-part multitimbral operation for XG and GM song playback (with an external sequencer or computer)
- 1 Performance (with up to 4 Layers) plus 12-part multitimbral capability for adding externally sequenced backing to your realtime play
- Built-in TO HOST computer interface simplifies desktop music system setup
- Stereo LINE INPUT for mixing in audio signals from a sampler, CD player or other system component
- Accepts CS1x bulk data

Everything you need
to create
your own **unique** sound
that will slice in realtime
right through the **mix!**

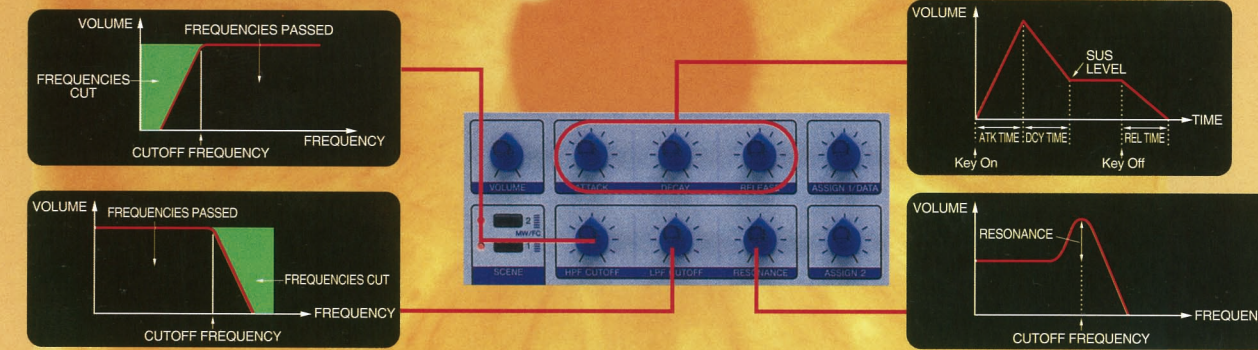


AWM2 Voice Structure



Analog-style Realtime Control over Your Sound

Nothing compares to being able to grab a knob and change a sound in realtime – especially when it comes to the type of intricate and evolving synth sounds used in today's dance music productions. That's why the CS2x has 8 Sound Control knobs which give you direct access to key sound parameters like envelope (attack, decay, release), filter (high pass and low pass), and resonance. Two extra assignable knobs can be assigned to control the parameter of your choice, whether it be stereo panning, Arpeggiator tempo, effect send level or one of many others. You can store your favorite knob positions in the two Scene memories for instant recall as you play. With the CS2x, you're guaranteed direct control over your sound at all times.

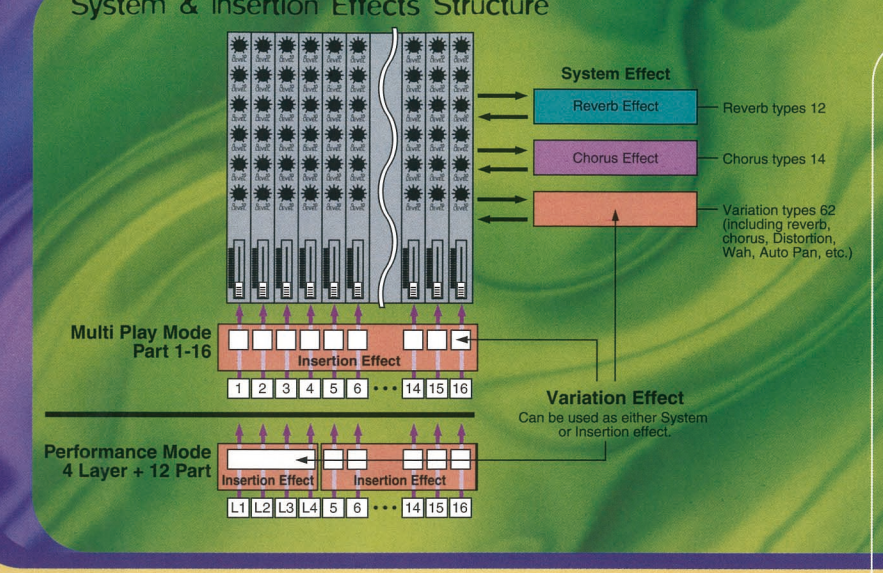
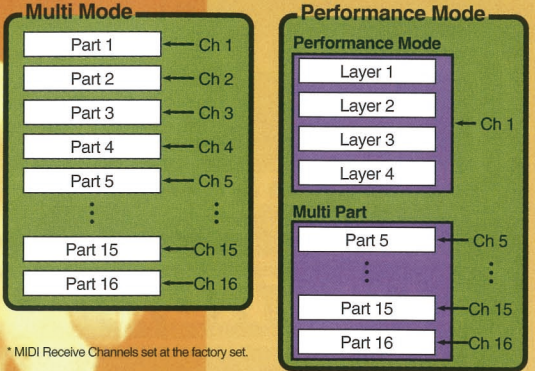


Handy "Scenes" And Realtime Scene Morphing

With the infinite variety of sounds you can get out of the CS2x using the Sound Control knobs, you'll be glad you can store your favorite knob positions in the two Scene memories. Simply pressing a Scene button as you play will recall the sound you want, which makes Scenes handy for quickly changing the sound between verses and choruses and lead breaks. A Scene Control function lets you use the Modulation Wheel or a connected Foot Controller to "morph" between the two Scene sounds in realtime.

Rich Performance "Layers" And Easy Panel Editing

The CS2x comes with a comprehensive collection of phat "state-of-the-street" dance sounds and killer emulations of classic "retro" analog synths specially selected for today's electronic music production scene plus a selection of instrument Voices for a wide variety of contemporary music styles. The 256 Preset and 256 programmable User Performances and easy-to-use panel editing functions are another reason the CS2x is such a powerful synth capable of sensorially rich and highly complex sound textures. A Performance is comprised of up to 4 individual voice Layers that can be played simultaneously or that can each be assigned to play only in specified Velocity and Key Ranges. Also included in each Performance are the Arpeggiator settings, Sound Control knob positions and two stored Scenes ("snapshots" of the knob positions), plus all other panel edit parameters – including Reverb, Chorus and Variation effect settings. What's more, Multi Play In Performance Mode lets you use your Performances along with 12 other XG or GM sounds driven by an external MIDI sequencer. So while your sequenced backing tracks are kickin' the groove, you can play the keyboard and manipulate your sounds in realtime using all the great Performance mode features like the Arpeggiator, the Control Knobs and morphable Scenes.



System Examples

1. CS2x + Tone Module (such as Yamaha FS1R) for extra voices
The CS2x's arpeggiator can control an external tone module.
2. CS2x + PC for multitimbral sequencing
The CS2x's TO HOST terminal can be used for direct connection to a computer with a sequencer application.
3. CS2x + SU10 for adding sampled sounds
The sampler's stereo audio signals can be mixed with the CS2x's via a stereo input jack.
4. CS2x + MDF3 (for data storage)
This combination provides for music sequence playback, including MIDI bulk data exchange.

40 Phat Arpeggiator Patterns With MIDI Output

Want to have some real fun? Then switch on the Arpeggiator and play a chord. The CS2x will create automatic arpeggiated chords based on the notes you play. With the 40 arpeggio types and 10 timing resolution subdivisions available, you can literally get carried away for hours on end creating a vast array of arpeggios. An Arpeggiator Hold function lets the arpeggios continue to loop even after taking your hands from the keyboard, and an Arpeggiator Split function lets you play the arpeggiated chords to the left of the split point while playing normally to the right. The Arpeggiator works exceptionally well with an external MIDI sequencer, as the CS2x can either control or be controlled by the clock of the external device. What's more, since the CS2x's Arpeggiator data can be output via MIDI, you can record its note and timing events into a track of the external sequencer, or have it "trigger" the voices of other MIDI synthesizers or external tone generators.

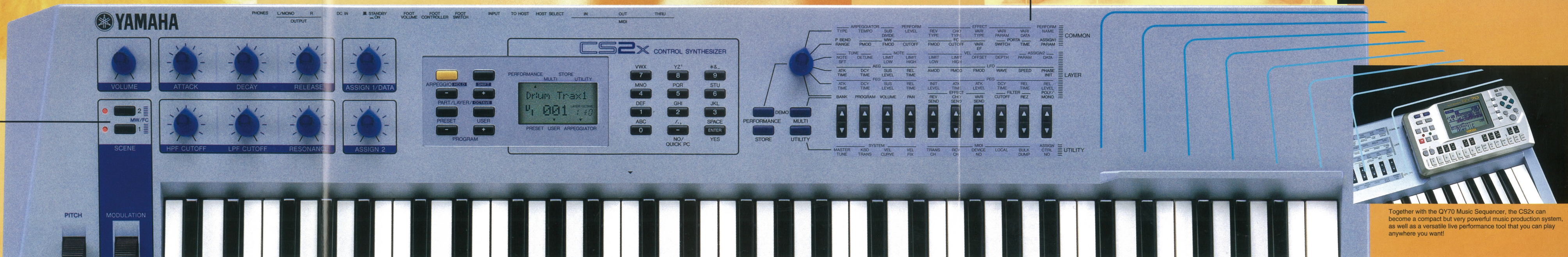
Arpeggiator Pattern List

No.	Name	Comments
1	UpOct1	The chord (or phrase) ascends up to 1 Octave.
2	UpOct2	The chord (or phrase) ascends up to 2 Octaves.
3	UpOct3	The chord (or phrase) ascends up to 3 Octaves.
4	UpOct4	The chord (or phrase) ascends up to 4 Octaves.
5	DownOct1	The chord (or phrase) descends down to 1 Octave.
6	DownOct2	The chord (or phrase) descends down to 2 Octaves.
7	DownOct3	The chord (or phrase) descends down to 3 Octaves.
8	DownOct4	The chord (or phrase) descends down to 4 Octaves.
9	UpOctWOct1	The chord (or phrase) ascends up to 1 Octave, then descends.
10	UpOctWOct2	The chord (or phrase) ascends up to 2 Octaves, then descends.
11	UpOctWOct3	The chord (or phrase) ascends up to 3 Octaves, then descends.
12	UpOctWOct4	The chord (or phrase) ascends up to 4 Octaves, then descends.
13	DownOctWOct1	The chord (or phrase) descends down to 1 Octave, then descends.
14	DownOctWOct2	The chord (or phrase) descends down to 2 Octaves, then descends.
15	DownOctWOct3	The chord (or phrase) descends down to 3 Octaves, then descends.
16	DownOctWOct4	The chord (or phrase) descends down to 4 Octaves, then descends.
17	TechnoA	Typical techno sequence TYPE A. (Basic techno type.)
18	TechnoB	Typical techno sequence TYPE B. (Bk Type with Velocity.)
19	TechnoC	Typical techno sequence TYPE C. (Japan techno type.)
20	TechnoD	Typical techno sequence TYPE D. (European techno type.)
21	GMHouse	Sequencing sequence with House music feel. (Bass for left hand, Chord play for right hand.)
22	SyncoA	Syncope type sequence TYPE A.
23	SyncoB	Syncope type sequence TYPE B. (Octave moves extremely.)
24	EdmFilter	Moving filtering sequence with echo.
25	TechnoE	Moving filter sequence with echo.
26	StepLine	Stepping filter sequence.
27	BaseLineA	Arpeggio phrase TYPE A for bass.
28	BaseLineB	Arpeggio phrase TYPE B for bass. (With Velocity.)
29	BaseLineC	Arpeggio phrase TYPE C for bass.
30	BaseLineD	Arpeggio phrase TYPE D for bass.
31	Chorus	Chorus Arpeggio, rise for bassline, using up to 4 input notes.
32	X-Sweep	Chorus Arpeggio, two arpeggios moving in opposite directions, using up to 5 input notes.
33	Limb	Chorus Arpeggio, rise with complex chords, using up to 5 input notes.
34	Trips	Note Repetition Pattern, with velocities, using up to 2 input notes.
35	HardCore	Monophonic Acid Line, using up to 3 input notes.
36	Ones	Trance Monophonic Line, using up to 4 input notes.
37	Chordal	Triphonic Chordal Sweep, using up to 3 input notes.
38	Orbit	Triphonic Chordal Movement, using up to 5 input notes, try different chords in each hand.
39	VelCurve	Monophonic Acid Line, with velocities, using up to 4 input notes.
40	MusLine	Monophonic Sequence, very short notes, using up to 2 input notes.

Versatile MIDI Capabilities

The CS2x also has a Multi Play mode with 779 XG normal voices and 30 drum kits (including TG300B compatibility). You can play any of the XG voices from the keyboard as "1 part", or you can assign up to 16 of them across "16 parts" for multitimbral desktop music production using an external MIDI music sequencer. A built-in TO HOST terminal eliminates the need for a special MIDI interface between the CS2x and a computer. And since the CS2x is designed for XG and GM formats, you can easily control all voice and effect selections as well as individual parameter settings via MIDI program change, control change and system exclusive messages programmed in the sequencer tracks of the song. (It's also great for playing back commercially available SMF type Standard MIDI Files.) The CS2x is so versatile it can be connected to various types of other MIDI and audio components to create an expanded system.

When it comes to programming the CS2x's detailed edit parameters, what you see is what you get! Because all Edit mode parameters are available in a grid of six menus printed on the panel and accessible by twisting the Edit Parameter Rotary switch and pressing the corresponding data entry button, you'll never have to wade through layers of submenus. It's really that simple.



Together with the QY70 Music Sequencer, the CS2x can become a compact but very powerful music production system, as well as a versatile live performance tool that you can play anywhere you want!

XG VOICE LIST

Piano	Dulcimr2	StidumOr	Bass	SmthFrl	Impact	Dark Trp	Digi Saw	Glacier	Creep	Oud	Shower
GrandPno	HardVibe	StidumO2	Acc.Bass	Strings	Strings3	BrghtTrb	Big Lead	Tine Pad	Big Pan	Percussive	Thunder
BrtePno	Orgel	GospelOr	FngBass	Violin	Syn Str5	MuteTrp2	HeavSyn	PolarPad	Odin	TnkBell	Wind
ELGrand	SineMrb	ClkGspOr	PickBass	Viola	Male Aah	AnaBrs1	SynthAah	Carib	Agogo	Stream	
HnkyTonk	Belfon	ChapelOr	Fretless	Cello	BrsStab	AnaBrs2	WespySyn	ClickPad	Cairy	StedPdm	Bubble
E.Piano1	ChrchBel	Guitar	SlapBas1	Contrab	DoubleHit	DrkTpsft	Mondo	Lite Pad	LoudGlok	Woodbok	Feed
E.Piano2	Cimbalom	NylonGtr	SlapBas2	Trem.Str	BrStab80	MellowTb	RezySaw	GlassPad	AtmosPad	TakoDrm	Dog
Harp1	Balimba	SteelGtr	SynBass1	Pizz.Str	Bass Hit	FluglHm	DoubleSaw	Pan Pad	Ring Pad	Melotom	Horse
Clavi	Carillon	Jazz Gtr	SynBass2	Harp	BassHit+	Reed	2 Osc	Sweepy	SynPiano	Syn Drum	Tweet2
GrndPnoK	Santur	CleanGtr	MelloSB1	Timpani	6th Hit	SprnoSax	Toy Lead	Ana. Pad	ChrBel	RevCymb1	Kitty
BrtePnoK	Log Drum	Mute Gtr	Seq Bass	Slow Vln	6thHit +	Alto Sax	Big Five	Itopia	Planet	Mel Tom2	Growl
ELGrPnoK	Organ	Ovdrive	FingDrk	SlwTrStr	Euro Hit	TenorSax	Dim Saw	Celstial	Ritual	Ana Tom	Haunted
HnkyTnkK	DrawOrgn	Dist.Gtr	SynBa1Dk	Susp.Str	EuroHit+	Bari.Sax	PulseSaw	SquarPad	Creation	Rev Cym2	Ghost
ELPno1K	PercOrgn	GtrHarmo	ClkSynBa	YangChin	VoiceHmn	Oboe	Dr.Lead	CC Pad	VibeBell	Real Tom	Maou
ELPno2K	RockOrgn	DistRhmG	SynBa2Dk	Ensemble	Brass	Eng.Horn	VeloLead	Snow Pad	ToHeaven	ElecPerc	Call
Harp1.K	ChrchOrg	NylonGtr	FastResB	Strings1	Trumpet	Bassoon	Mellow	CosmicPd	StarDust	Rock Tom	DoorSuek
Clavi K	ReedOrgn	SteelGtr	AcidBass	Strings2	Trombone	Clarinet	Digger	Synth Effects	DigiBell	Bonang	DoorSlam
MelloGrP	Accordion	MelloGtr	FlangeBa	Syn Str1	Tuba	Sax Sect	Vent Syn	Rain	MillyWay	Atrigane	ScratchC
MelloEP1	Harmonica	DistGtr2	ResoSlap	Syn Str2	Mute Trp	BrThTnX	Rubby	SoundTrk	Reso&Pan	Tablas	ScratchS
Harp1.2	TangoAcid	NylonGtr3	ResoBass	ChoirAah	Fr. Horn	SoftTenr	DistLead	Crystal	AirBells	Castanet	WindChim
ClaviWah	70sPcOr1	Jazz Amp	MutePkBa	VoiceOoh	BrsSect	HyprAlto	Vox Lead	Atmosphr	Night	Gr.Cassa	Telephon2
Det.CP80	DetDrwOr	ChorusGt	Fretles2	SynVoice	SynBrs1	TnSax 2	Fat&Prky	Bright	BellHarp	RevSnr1	Ignition
Chor.EP1	DetPcOr	12StrGtr	PunchThm	Orch.Hit	SynBrs2	BassClar	SoloSine	Goblins	Glisten	Altair	Squeal
Chor.EP2	ChurOrg3	DistGtr3	SmthSynB	S.Strngs	BrsSec3	Pipe	PureLead	Echoes	Gamelmba	GlasPerc	Exhaust
DX Hard	Accord1	PowerGtr1	Fretles3	S.SlwStr	FrlHrSolo	Piccolo	HardSync	Sci-Fi	Puffy	RevSnr2	Crash
DXLegend	Harmo. 2	PowerGtr1	Fretles4	S.Choir	Quack Br	Flute	WireLead	Echoes 2	Smokey	Gamelan	Siren
Harp1.3	60sDrOr1	Dst.5ths	Clv Bass	Slow Str	SfrzndBr	Recorder	Dr.Layer	SynDrCmp	DelChoir	ThaBell	Train
PianoStr	Lite Org	Nvln&Stl	JazzRhm	LegatoSt	Trumpet2	PanFlute	Soft Wrl	Puccorn	Dharma	RevKick1	JetPlane
ELGrPno2	60sDrOr2	Ba&DatEG	LoFi Hit	Tuba 2	Bottle	SineLead	Echo Pan	Ethnic	S.Gamlan	Starship	
HardELP	70sDrOr1	FeedbkGt	TechnoBa	Ch.Aahs2	BriteTrp	Shakchi	SynPluck	TinyBell	Sitar	RevConBD	Burst
DX Phase	ChurOrg2	Stl&Body	ModulrBa	Arco Str	Trmbone2	Whistle	Pulse Ld	WarmAtms	Banjo	Rama Cym	Coaster
Dream	DrawOrg2	MuteStGt	DX Bass	Reso Str	MidBrs	Ocarina	SynLead	HolwRls	Shamisen	Rev Tom1	Submarin
ELGrPno3	60sDrOr3	FeedbkGt	FngRslap	MelChoir	Soft Brs	PanFlut2	Seq Ana.	Prologue	Koto	AsianBel	Laugh
DX+Analog	PercOrg2	VeloGtrm	VeloSlap	60sStrng	RezSynBr	Kawala	Synth Pad	RndGlock	Kalimba	Rev Tom2	Scream
DXKotoEP	Even Bar	FunkGtr1	VXUpgrht	Syn Str3	PolyBrs	Synth Lead	NewAgePd	GlockChi	Bagpipe	Sound Effects	Punch
VX EL.P1	16+2+2/3	Gt.Pinch	FngBass2	OrchHit2	SynBrs3	SquareLd	Warm Pad	Nylon EP	Fiddle	FretNoiz	Heart
VX EL.P2	NotedDam	RckRhm2	Jazzy Ba	Orchestr	Warm Trp	Saw Ld	PolySyPd	ClearBel	Shanai	BrhNoiz	Footstep
60sEL.P1	Puff Org	Jazz Man	Slapper	Warm Str	FrlHrm	CalliopLd	ChoirPd	ChorBell	MuteBnjo	Seashore	Applaus2
PulseClv	Organ Ba	RckRhm1	Orbiter	GrandPad	JumpBrs	ChfLd	DetSitar	ChorPad	ChorBell	Tweet	MchinGun
Piercing	JazOrgn	CleanGtr	X WireBa	ChoirStr	Trk&TbSec	CharnLd	MetallPd	HrmoRain	Sitar 2	Telephone	LaserGun
Chromatic Percussion	Rotary Cr	AccoHarmo	Mod.Bass	SyVoice2	Trk&TbSec2	Voice Ld	Halo Pad	Ancestrl	BigKalim	Helictr	Xplosion
Celesta	OrgFlute	MidT. Gtr	Thum&Slp	Orchstr2	HornOrch	Fifth Ld	SweepPad	SynMalet	Shanai 2	Applause	Firework
Glocken	TngoAcid2	GtFeedbk	Sqr.Bass	Kingdom	BrsFall	Bass&Ld	ThickPad	NylnHarp	Tambra	Gunsnot	
MusicBox	70sDrOr2	MidTGTst	AtkPulse	Choral	BrsSec2	SquarLd2	Soft Pad	FantaBel	Rabab	SFX	
Vibes	WarmJzOr	GtrHrm2	RubberBa	TremOrch	SyBrsSub	Saw Ld 2	Sine Pad	GobSynth	Tsugaru	CuttingNz	
Marimba	SloRotar	NasalGtr	CS Light	Velo.Str	SynBrs4	LMSquare	Shwimmer	EchoBell	Taisho-k	CtingNz2	
Xylophon	TrmOrgF1	NaslGst	Fish	70s Str	Hi Brass	ThickSaw	Converge	Starz	Pungi	DstCutNz	
TubulBel	CheerOrg	Ukulele	MetlBass	Syn Str4	ChoirBrs	Big&Low	Fantasy	AfrcnWnd	Tamboura	Sir Slap	
Dulcimer	ClkOrgn	Mandolin	HardReso	StrngAah	MelloBrs	Hollow	Horn Pad	Rave	Gopichnt	B.Slide	
Vibes K	FstRotar	PdSteel	SynFret	VoiceDoo	AnVelBr1	Dyna Saw	PolyPd80	ScrCryst	Kanoon	S.SCraps	
MarimbaK	DrawOrg3	Mu.DstGt	Hammer	AnaVoice	AnVelBr2	Shroud	Heaven	Harp Vox	Hichrki	FLKClk	

PERFORMANCE LIST

Ministry	Transine	Ramp	Lipstick	Banners	SweepPd	Grnd/EP	SloStrgs	Fretless	RtmScrch	Fireworx	RockMkr
TmReady	DJ Zap	Fat Snap	MegaClav	Metropol	HolyMthr	Pk&SStr	Drum	6String	SealOrgl	TechRock	
TekScene	XChoir	Cosmetal	DigiVah	WavePad	Sparkle	Bottled	DarkStr	Jaco	Atlantis	N.Y. 99	Vibe-izm
Boodoo	HaggySyn	SynChord	Kicki	Old One	Sweet	Old One	Sweet	Slap	Planctns	SuperArp	NewFunk
Roulette	Tektutar	Cosmic	CHook	4AD	Despair	ChorusEP	ObieStr	Upright	13Friday	Hard On	FunkyBro
LongDay	Goa	FuzzLine	Larynx	Thermion	BeBach	DX EP1	Jupiters	BoogieOn	Science	Kirmes1	Orchstra
Walrus	Noiz+Reg	Gigabass	Scary	Pan	More Ice	Wurlftrz	Simple	DX Super	Sewer	Classical	Mr. Mute
Syn303	VocalGym	SubBs	AtkDist	Athens	Chemical	Wurliole	HornSect	Kickit	Swamp	DRUG	WWinds
MDMA	Astral	Lately	WahDcy	Abandone	AyersRok	Clavinet	Jump!	Kasimodo	Radium	X-Sweep	909 Kit
Chordal	SharpLd	Electron	BelToll	Bitcomp	BlueBook	RezClav	FatBrass	Lounge	HipNosys	Nexus	808 Kit
HardMorf	VanDriva	Stroller	Torture	AirBlowr	Moonweed	Jimmy	Syn&Brs	BellZee	Cryton	Katarsis	4 by 4
Faaat	Bohkyoh	Svko	M25	Emerald	Alobar	Emerson	CS Warm	DoraDora	TubChoka	Rave	Elec Kit
TekHook	Pizzsyn	Bomber	Big Tune	Ethereal	Kemistry	Full B	Anaswell	Dark SE	Dark SE	AN Velo	B900 Kit
TechLead	Insomnia	Warp	Nevada	AutoSaw	Abvss	GospelB	OBSX	NuTribal	Hammer	Memes	Session
Europe	SynSteel	Rider	Ocean	Birds	Dandelio	Swish	FatAnne	Emergency	Patty	Messa	
RaveLine	Trancy	HouseOrg	Red Wine	Geometry	OrchHits	Full	Odyssy	AirForce	Reflect	Moondot	
HouseYa!	Taurus	Monty	FatSweep	Diffusion	AcidHits	Ranks	BloozHrp	TekFX	Drumatic	Euro Kit	
Earth	Punchy!	GutRencH	Shadow	Fx Bell	FunkyHit	SuperVox	Steel	Bad Man	7th Rndm	WishUre	
CS15	101 Bass	Dreampad	Beauty	Concert	Spyral	RoundStl	RoundStl	SpecWarp	X2-Sweep	DanceTec	
MiniSaw	303Wave	Bad Ass	FlutePad	Ghosts	Wired	DeepHouz	ChoStrat	Lego	TranSeq	DigPhase	
BluGreen	OctaBass	Pop Comp	HitoLo	Breathy	CP99	ThaDoorz	NastyNasty	Magneto	Acidosis	Ready	
RapLine	Harmo	Analog	Venus	Transpad	LoFi	Stryng	Stack	Cyber SE	MadKeef	Becoming	

Specifications

KEYBOARD	61 keys with Initial Touch	CONTROLS	CONTROLS STANDBY/ON, VOLUME, PITCH, MODULATION, Sound Control Knobs 8, SCENE 1/2, Numeric Keypad, ENTER, Mode Select (PERFORMANCE, MULTI, STORE, UTILITY), ARPEGGIATOR, SHIFT/OCTAVE, PART/LAYER +/-, PRESET, USER, PROGRAM +/-, Edit Parameter Rotary Switch, Parameter Value Up/Down buttons 10
TONE GENERATOR	AWM2 (Wave ROM 16MB)	DISPLAY	LCD (Back Lit)
POLYPHONY	64 notes	TERMINALS	PHONES (Stereo Phone), OUTPUT (Phone), L/MONO/R, DC IN, FOOT VOLUME, FOOT CONTROLLER, FOOTSWITCH, INPUT, TO HOST, HOST SELECT, MIDI IN/OUT/THRU
MULTI TIMBRE	16 or one Performance + 12	POWER SUPPLY	AC adaptor PA-3B or equivalent AC adaptor
PERFORMANCE	256 Presets, 256 Users	DIMENSIONS	976 (W) x 285 (D) x 103 (H)mm (38-3/8" x 11-1/4" x 4-1/16")
VOICE	Normal Voices	WEIGHT	5.7kg (12 lbs., 9 oz.)
	Voices For Performances	ACCESSORIES	Yamaha AC Adaptor PA-3B Owner's Manual, Data List
	Drum Voices		
ARPEGGIATOR	40		
EFFECT	Reverb Chorus Variation		

Descriptions and photographs in this brochure are for information purposes only, and specifications are subject to change without notice.
Since options may not be the same in every region, please check with your Yamaha dealer.

For details please contact:



YAMAHA



CS2x



ISO9001
JQA-1868



YAMAHA

YAMAHA CORPORATION
P.O. Box 1, Hamamatsu, Japan

<http://www.yamaha.co.jp>

CKC-8807 MW181220 Printed in Japan