

EVOLUTION

KETRON instruments have always been recognized for their sound quality and the special touch of their arrangements/styles. Following this tradition, KETRON introduce once again a new instrument with unique musical character, new technology, new functions and new state-of-the-art sounds. The SD90 module presents the same technical and musical features of its predecessor SD9. Certainly the best compact choice for accordeonists, professional live entertainers and home studio producers.

SOUNDS

The SD90 features new superb stereo Grand Piano sounds, Classical and Modern, and a new and authentic vintage Electric Piano with uncompromised multilayer sampling, long natural decay and very high sound quality. The SD90 contains also a massive, renewed sound library with new Orchestral Sounds featuring String, Brass as solo or section, Basses, Synths, Guitars and original tone wheels Organs with true Slow and Fast rotor samples. With their natural vibrato some of the new solo sounds such as Violin, Flute, Oboe, Soprano, Whistle and Peruvian Flute will let you express an emotional performance like never before.



LIVE DRUMS

The SD90 reaches new heights with up to 100 new Audio Drums with Acoustic and Electronic Loops and a stunning variety of more than 500 Latin Percussion Grooves. The system ensures the compatibility with User Audio Drums @ from Audya series and offers also to the user the possibility to import new custom Audio Drums into the machine.



LIVE GUITARS

A huge Library with more than 100 new Audio Live Guitars has been provided, featuring Folk guitar strumming (excellent for unplugged songs), Rock and Dance Electric Guitars, Gipsy patterns and smooth jazz semi-acoustic grooves. In combination with the Audio drums and bass, the Live Guitars provide the perfect rhythm section for your songs.



LAUNCHPAD

The Launchpad is a new exciting environment of the SD90 giving top possibilities in terms of composing and modern live performing. This amazing application lets you combine up to 12 Pads for a single Scene, where each pad may sound as an Audio Drum, Bass, Guitar or Percussion Groove taking advantage of the internal Modeling or even any external Wav file imported into the machine. Single sections from the internal Styles may be imported as well and the musician can write his own arranger chord sequences. An additional Song mode permits also to manage the Scene changes automatically. The user can record in real time short sequences, well synchronized with the others parts and controlled with sophisticated play modes, for a limitless music creativity. Up to 6 Scenes are available for a single Launchpad project and up to 2048 Launchpad programmable projects. Unlike other similar tools, the SD90 Launchpad is totally interactive, letting the musician choose the root of the performance simply by playing the root chord. With Filter and a dedicated keypad area it is possible to change in real time the sounds of each pad by modifying the Cuf Off and the Resonance.

STYLES

A great selection of over 400 Styles featuring Audio drums and Latin Grooves. Each style provides 4 Arranger, 4 or more Fills, 4 Breaks and 3 Intro-Ending with Drums, Bass, 5 chords, Groove and 3 Arranger variations. New Unplugged styles featuring Audio Drums, Live Guitars, Piano and Bass backgrounds. It is possible to assign 4 different voices to the Right hand (Lead) as well as to assign them to the 4 ABCD Arranger sections. The Arranger system of

SD90 is really intuitive and lets you modify the sounds, levels, effects of each style and then save it as USER Style. New Style Editing function, with up to 128 recording bars with the capability to program a new style from scratch or to personalize an already existing style. Furthermore the MY LIST section allows you to group and save up to 64 of your favorite styles for instant access.

MODELING

The Modeling is a powerful application of the KETRON Arranger which allows you to select and control hundreds of templates for Drum, Bass, Piano, Guitar, Synth and other orchestral sections within a style. The acclaimed Modeling feature is now powered on the SD90 with new Live Guitars, new Bass and Synthbass lines, new Synthesizer sequences and even new Audio Drums. There's more ... you can also import into the Modeling your own custom Midi sequences to be handled within the arrangement. With Modeling, style customisation has never been so easy and creative.

USER MEMORY

A memory size of up to 400 Mbyte (rewritable) has been allocated for custom sounds and additional KETRON libraries. The SD90 can be periodically updated with new sounds, drums samples or arrangements.





PLAYER

The SD90 is equipped with a dual professional player capable of playing back Mp3 type files, MIDI (different formats with lyrics), Wav, Flv, CdG, Mp4, Avi, M4a, Jpg, and Txt. The device provides clever features such as automatic Cross Fade, (fading from one song to another), Lead Mute (excluding the lead voice from an audio track or lead track from a Midi file) and Alphabetical or Numerical Search of files within the disk. Lyrics, Text and Karaoke can easily be displayed on the screen with the ability to select colors and backgrounds for text and also output the screen to an external monitor.

Navigation is achieved by using the Alpha dial and scrolling through and touching the file's icons directly on the capacitive touch screen. You can create custom Playlists and with My Folder you can quickly address your favorite files. The Juke Box page is also provided for a quicker access to songs and a new DJ menu now gives you access to a dual virtual turntable from which you can apply special effects to the music you're playing such as Tap Tempo effects, Pitch, Cut Off, Resonance, Tempo, Brake and Back Spin. Sync/Next mode allows you to accurately synchronize the beginning of the

song (MIDI, Mp3 or Wav) with the one currently being played in order to create well synchronized real-time medleys. Furthermore, the Player is capable of utilizing Midi files which have already been enhanced with Wav or MP3 tracks, all perfectly synchronized together. The new function Restyle allows you to easily replace the monotonous drum track of a traditional MIDI file with any of the Audio Drums available for the styles. KETRON SD90 is also up to date in the regard of Video, allowing you to view and display on an external monitor (DVI) movies and musical videos.



This keyboard is also able to control the PDF with the ability to display on the screen or external monitor graphic files such as Music Scores.

AUDIO MULTITRACK

An Audio Multitrack function that allows the playback of multiple wave files within an audio project. The Multi-track audio is provided as an excellent alternative to traditional Mp3 and Wav files during professional Playback, with the capability to control the volume for each of the 6 tracks directly with the sliders on the panel. A track can also be assigned to the Click Metronomic (or to an individual output) that can be sent via external audio through the headphone output (Aux), very useful if you play with additional musicians.

REGISTRATION

Registrations allow you to take a snapshot and store the general panel settings, current conditions of the SD90 including all parameters and functions. Four storage Banks each capable of holding 1024 Registrations are available. These Registrations and Song settings can be quickly recalled using also the numeric keypad or externally via MIDI. With the use of a dedicated App, it is also possible to manage the Song settings and the Registrations from the keyboard based on external data library's songs, texts, etc.

AUDIO & MIDI RECORDING

The SD90 has a new Audio and MIDI recording function and menu. It is possible to memorize brief patterns in Phrase mode (also available while using the Arranger) then later, loop it during playback or record complete parts in Song mode. The audio track is recorded as a stereo WAV file which can further be modified by inserting start and end points, as well as the output level. A great tool for creating instant backing tracks.

USER INTERFACE / USB

The new capacitive 7" Touch screen offers a fluent control on the display for all the module functions allowing for smooth and precise slider controlling or instant sound launch. Some of the SD90's multimedia functionalities include 3 USB Host jacks for connecting USB flash drives, external hard drives, CD Rom or other digital devices such as tablets and smart phones. The USB device connection at the back allows you to connect SD90 to a computer for easy file management straight from your computer.

An optional internal hard drive can be installed (Type SATA 2/3_ 2.5") to expand storage capability, backup important files and file management. Thanks to the intuitive operating system, navigating the instrument is easy even without the help of the user Manual (which by the way resides inside the keyboard as Html multilingual file). Brightness control allows you to adjust the brightness of the display which is especially useful in dark or sunny conditions.



KEYBOARD CONTROLS

The SD90 is provided with a smooth dynamic control (4 curves) and aftertouch as keyboard control. Several functions such as Morphing and Filter may freely be assigned to Pitch and Modulation wheels while the Sustain pedal can be used also as a switch for Rotor Slow Fast on the organ tones.

DSP

The SD90 incorporates a new powerful DSP with Chorus, Reverb, Phaser, Tremolo, Flanger, Echo Delay, Overdrive, 4 parametric equalizer and 2 independent Insert Efx section with Hi quality Distortion, Rotary and Autopanning effects. The user can insert up to 8 effects in a chain.

PLAY MODES

You can easily configure the SD90 to suit your playing style. If you are a pianist, you can use the PIANIST mode to play as though you were playing a real piano while still being able to control the arranger. If you prefer to play with Manual bass while still using the Arranger, BASSIST mode is your option, a mode which utilizes sophisticated logic to control harmonies performed with both hands in real time. A new dedicated menu has been developed for the Accordion. Classic: grants the accordionist total manual control over the SD90's voice sections. The accordionist can program complete manual orchestrations with 2 voices allocated to the left/chord and 3 voices to the right and lead voice, and all

these set ups can be stored in a Song setting/Registration for instant recall on stage. Style: this mode lets you control the arranger with your Left Hand. With the Bass To Chord, the accordionist can also define some tonalities which are normally not available in the normal accordion technique such as Minor7th, 7th Augmented, 4th and others, especially useful in the context of light music and jazz. For organ players, an Organ mode is also provided making it possible to control the bass from the Midi pedalboard (Mod. KETRON K8) thus reproducing a typical condition in a classic organ performance.

MICRO/VOCALIZER

The keyboard has a symmetrical microphone input (XLR) with adjustable gain, separate audio output and effects Reverb, Echo, Equalizer, Noise Gate, Compressor, Pitch Shift with 10 preset combinations and 10 user programmable. The Vocalizer includes 4 harmonization Voices (Voicetron) with Right and Left Harmony modes, Unison with the possibility to assign its controls to the Arranger, Lead voice or Midi file.





SPECIFICATIONS	
POLIPHONY	128 note. Multitimbral 64 parts.
DISPLAY	Lcd color Tft 7". Touch screen capacitive 800 x 480 dots. Brightness control.
SOUND & VOICES	672 GM Sounds. 5 Sound Banks. 61 Drum Sets. 368 Preset Voices. 1500 User Voices. 2nd Voice. V-Tone. Advanced Voice Editing. Voice List: 80 Voices programmable and Style assignable. Filter and Resonance live controls.
LIVE DRUM	Up to 100 Stereo Live Drums. Wav streaming with Time stretching and 3 Band stereo Equalizer.
LIVE GUITAR	150 audio Live Guitars (Folk Acoustic, Electric, Nylon). Stereo and Mix version.
GROOVES	530 Grooves with Latin Percussions, Brazilian, individual and full Drums loops.
AUDIO DRUM (GRV)	159 sliced audio Drums loops.
ARRANGER	400 styles. 140 Live Styles with Live Drums, Live Guitars and Grooves. Compatibility with User Audio Drum @ from Audya series and SD Series (SD7, SD40, SD80). Midi Drum Mixer & Remap. Drum Boost. 4 Voice Variations. Voice to ABCD. Voice List assign to Style. 5 User Tabs. Pianist and Bassist mode. Manual Bass. Bass to Lowest. Bass to Root. Style Edit: Full Pattern creation and Editing. User Style. Live Modeling.
LAUNCHPAD	Up to 2048 Launchpad projects. 12 pads with 6 Scenes. 30 internal demos. 3 x Wav simultaneous with Time stretching and Midi synchronization. Drum kit Looper. Style Import.
PLAYER	Double Player. Files recognized: Wav, Midi, Mp3, Mp4, Avi, Mov, Flv, Cdg, Jpg, Txt, Pdf. Song Drum Restyle. DJ, Juke Box, Pic&Movie.
AUDIO MULTITRACK PLAYER	5+1 Audio tracks with separate slider control. Metronome click out.
DVI	Video Monitor Out, Karaoke Lyric/Mirror.
MENU	Disk, Midi, Play Modes, Audio Edit, Language, Footswitch, Preferences, Controls, Video, Reg. Set up, Arabic Mode.
MEDIA	Internal Storage: SSD Card 16G. Usb: 3 Host + 1 device. Sd Card slot.
PLAY MODES	Master keyboard. Accordion Style and Classic. Organ (with Pedalboard). Guitar mode with Efx (thru Input).
KEYBOARD CONTROL	Live Efx Chain editing. Aftertouch, Portamento, Double controls.
REGISTRATIONS	4 Banks x 1024 Regs. Full Panel and function programming. 4 Playbox with 1024 files per folder (including Midifile, Mp3, Wav).
DSP	2 x DSP with 2 separate Reverb units, Chorus, Reverb, Flanger, Phaser, Tremolo, Rotary, Autopan, Echo Delay, Tap Delay, Equalizer, Distorsion, Amp simulator, Compressor, Filter. 64 Insert EFX Chains (10 User programmable).
RECORDING	HD Recording. 1 Stereo track. Loop. Audio Edit with Cut, Normalize. Midi Recording with Phrase and Song.
USER MEMORY	up to 400 MB free User programmable.
MICRO	XLR Input. Gain control. Volume. Reverb. Micro On/Off Edit. Talk.
VOICETRON	3 Voice Voicetron. Manual, Unison, Midi Mode, Pitch Corrections, Autotune, Harmony Duet & Trio. 10 Voicetron User.
MIDI	In1 (Gm), In 2 (Keyb). Out. Thru. Midi Set up: Standard, Computer & Sequencer, Keyboard Right, Accordion, Player, Style.
OUT	Left/Right Stereo, Pedal Volume, Sustain Pedal, Micro Out.
INPUT	Guitar (Instrument) / Micro2.
HEADPHONE	Stereo Headphone. Aux separate Out Assign (to Drums, Right, Bass, Click).
OPTIONAL	Footswitch 6 or 13, Volume Pedal, Sustain Pedal, Start/Stop Pedal, Midi Pedalboard, HD, SSD, Hard Case, Bag.
POWER SUPPLY	External 9V-4A.
DIMENSIONS	42,2 x 11,5 x 25,5 cm. (16,7 x 4,5 x 10,1 inches).
WEIGHT	4 Kg. (8 lbs.)

* All specifications and appearances are subject to change without notice.