

W-30

MUSIC WORKSTATION

Roland
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Expressive Flexibility and Easy Operation

The W-30 is equipped with a 61-key velocity and aftertouch sensitive keyboard that supplies musicians with the expressive capabilities they need. For greater flexibility, a DP-2 Footswitch and EV-5 Expression Pedal can be connected to two foot controller jacks, each of which can be assigned its own MIDI controller function from the W-30's front panel to make it easy to control the unit's extensive performance parameters. A split-key function lets you set up to 108 split points anywhere you like, permitting you to assign any sample to any individual key or group of keys on the W-30's keyboard.

The W-30's built-in disk drive allows you to store data on two types of disks—a Sound & Song disk (containing sound and sequencing data) or a Song disk (containing just sequencing data). The W-30 is also compatible with disks containing S-Series and MC-Series data. For extremely fast access to sound data, the W-30 may be fitted with an optional SCSI interface upgrade kit. It provides the W-30 with a SCSI port to enable you to connect the unit to Roland's CD-5 CD-ROM Player or to an optional hard disk Unit which allows you to load or save large amounts of song data as well as sound data.

All controls are laid out in a logical configuration, making operation of the W-30's powerful sampling, sequencing and performance functions intuitive and easy. A large, supertwist LCD which displays up to eight lines with a maximum of 40 characters per line enables you to view sample envelopes, waveforms, split zones, parameter settings and other functions. Five function keys are located under the display and provide speedy access to all menu operations. These function keys are also user-assignable which allows you to execute frequently used, multi-level menu functions (such as disk loading or output assignment) with one push of a button.

Since sampling and sequencing programs are loaded into RAM when you boot up the W-30's system disk, you can switch between functions without accessing the disk each time. You can also execute sample editing functions while playing a sequence or start the sequencer from within any of the sampling menus.

Sophisticated Sequencing Capabilities

The W-30 features a powerful 16-track sequencer which can be used to control internal sounds as well as external MIDI sound sources, allowing it to control a larger system. Each track can record and play back data for all 16 MIDI channels and any eight MIDI channels on any track (or tracks) can be used to control the internal sounds exclusively. For example, when using the W-30 as a stand-alone MIDI workstation, you can use MIDI channels 1 through 8 on tracks 1 through 8 to control only the W-30's internal sound section. Or, when using the W-30 as the central unit of a larger MIDI system, you can use MIDI channels 1 through 8 on tracks 1 through 4 to control the W-30's internal sounds exclusively and use all 16 MIDI channels on any or all of the remaining tracks to control external MIDI devices. Since up to eight MIDI channel/track designations can be assigned for exclusive internal

use and you can use the same MIDI channel on a different track to control external MIDI devices, you can control a total of 24 MIDI channels at the same time.

Up to approximately 15,000 steps can be recorded in real-time and saved in the unit's internal memory. A total of 64 songs, each with a capacity of up to 9,998 measures,





can be stored on a Sound and Song disk which offers a total storage capacity of approximately 100,000 steps. Also, 64 songs can be stored with W-30 sound data on a sound disk to simplify song loading and configuration, or sequencing and sound data can be stored to an optional hard disk to provide even greater storage capacity and access speed.

Powerful, Precise Sequence Editing Functions

In addition to normal real-time recording, you can use the Manual Punch function to change any section of the performance you wish, or use the Auto Punch function to automatically begin and stop recording at the specified point while you concentrate on playing. The W-30 also features a Key On recording function for convenient punch-ins. This function starts recording the moment you depress any key on the W-30's keyboard. A Loop function is provided as well to allow you to record continuously over a specified section to build a part layer by layer (similar to recording parts on a rhythm composer). You can copy, delete, erase or insert measures as you please or quantize parts to play in perfect time. You may also transpose parts, exchange tracks, change velocity, MIDI channel or gate time, or shift the timing of a whole part (shift clock) in relation to other parts. A Merge function lets you combine completed tracks of data onto one track or, once parts are merged, you can extract them (by specific MIDI channel) and move them to an empty track for further editing—all without any degradation of sound quality. A separate tempo track which allows you to add ritardando and accelerando dynamics in performances is also included.

The W-30 features a Micro Edit mode as well, which is similar to the Microscope mode found on Roland's MC-Series Micro Composers. Micro Edit lets you change, erase, create, copy or change clock timing for specific MIDI events, including note number, bender, control change, program change, channel, polyphonic aftertouch information and System Exclusive messages within a track with incredible precision. Since you can specify the exact kind of MIDI information you wish to locate for editing, changes can be made rapidly and effectively. The W-30 is compatible

Sound Edit Mode



TVA Edit Mode



Performance Mode



Sequence Record Mode



Song Edit Mode



with MC-Series Micro Composer data, allowing you to load song data in either MRC or Super MRC format or save song data in Super MRC format and Director-S data.

High-Quality Digital Sampling

The sound section of the W-30 is a powerful digital sampler which provides sampling and sample editing features comparable to Roland's acclaimed S-Series Samplers. The W-30 contains the same proprietary DI (Differential Interpolation) method used in S-Series samplers to transform tiered, digitized waveforms into smooth waveforms that duplicate the original sound with remarkable accuracy.

The sound source's fully digital processing and 16-bit digital-to-analog (D/A) conversion ensure exceptional sound quality by reducing aliasing noise without affecting or cutting out any part of the sampled sound. The W-30 is also 16-voice polyphonic, eight-part multi-timbral and has a built-in wave ROM that provides 128 preset Tones. These Tones can be used as they are or edited and stored in any of 16 Patch memory locations.

For creating your own samples, the W-30 features a total sampling time of 28.8 seconds at a 15kHz sampling rate or 14.4 seconds at a 30kHz sampling rate. Sampling functions include automatic, pretrigger, previous and manual sampling, along with automatic looping and wave smoothing functions which simplify the creation of complex waveform loops. Waveforms and envelopes are displayed graphically on the LCD, making the editing process very simple. In addition, each Tone has its own time variant filter (TVF) and time variant amplifier (TVA) parameters which you can use to digitally control the envelope, velocity, aftertouch and low frequency oscillator (LFO) modulation of each sound, offering exceptional sound clarity while also enabling you to synthesize sampled sounds.

All currently released S-Series Sound Library disks can be used with the W-30, providing access to a tremendous array of high-quality samples which can be edited as desired and saved on a floppy disk or optional hard disk.

Multi-Timbral Capability with Eight Separate Outputs

The W-30 is a multi-timbral instrument with the ability to play eight different Patches simultaneously. This provides you with the equivalent of eight separate samplers which each can be played via different MIDI channels. The eight Patches can be controlled using the W-30's keyboard or sequencer, an external MIDI instrument via the MIDI in jack, or a combination of all three. In addition, eight separate polyphonic outputs are provided. Any

Patch or Tone can be assigned to any output which allows you to add effects processing to any of the eight simultaneously output Patches. Patches and Tones can also be mixed externally.

Open-System Design and Compatibility

The W-30 features an "open-system" design that offers users considerable flexibility. Because all of the unit's functions are software driven, the capabilities of the W-30 can be updated simply by loading new software. And in addition to its compatibility with the entire library of S-Series sound disks, the W-30 allows you to convert data created in the studio using an MC-Series Micro Composer or S-Series Sampler with Director-S software for use on the W-30. You can also create sequences on the W-30 and save them in Super MRC format.

Optional Upgrade Kit Provides Greater Data Handling Capacity

An optional upgrade kit (KW-30) for SCSI interfacing is available which allows you to link the W-30 to a hard disk unit or to Roland's CD-5 CD-ROM System for optimum efficiency when handling large quantities of sound data. A hard disk can store sequence data, sound data and the W-30 operating system simultaneously and load data exceptionally fast.



The CD-5 provides convenient, quick access to thousands of sampled sounds*, including the entire library of Roland samples (a total of over 150 disks of data) which is provided on a single CD ROM disc supplied with the system. The CD-5 can load the equivalent of an entire S-Series disk in less than 18 seconds, and samples loaded from the CD-5 can be edited on the W-30 and saved on a hard disk or floppy disk.

*Optical Media International is scheduled to release additional CD-ROM discs containing an extensive variety of sampled sounds.





**A Comprehensive Music Production System
Combining a Keyboard Controller, Sophisticated
Sequencer and High-Quality Sampler**

Roland designed the W-30 Music Workstation to provide musicians with everything they need to create professional quality music in an easy-to-use, all-in-one package. Containing a sophisticated sequencer, high-quality sampling sound source, built-in disk drive, a large liquid crystal display (LCD), multi-timbral capability, individual audio outputs and full-sized keyboard, the W-30 is a comprehensive workstation that offers musicians the flexibility and control capabilities needed for a wide variety of creative and performance applications. The W-30 features Roland's "open-system" design and is compatible with MC-Series Micro Composer data (including Super-MRC software), Director-S sequencing data and the entire Roland Sound Library for the S-Series. This allows you to expand the capabilities of your unit by simply loading new application packages or updated system disks. All of these features, plus an optional SCSI port which gives you access to high-volume storage media, make the W-30 the perfect instrument for musicians looking for a powerful, versatile music workstation.



Specifications

Keyboard:	61 keys, velocity and aftertouch sensitive
Maximum Polyphony:	
Number of Simultaneously Produced voices:	16 voice polyphonic
*Sequencer:	
Available Tracks:	17 (16 phrase tracks + 1 tempo track)
Max. Measures:	9,999
Max. Songs:	20 internal, 64 on disk (Sound & Song disk, Song disk)
Max. Steps:	Approx. 15,000 internal, approx. 100,000 on Song disk, approx. 7,000 on Sound & Song disk
Recording:	
Resolution:	1/96
Basic Tempo:	10 - 250
Tempo Change:	5 - 500
Quantize:	1/64 - 1/2
Offset:	100 - 1100
Gate Time:	Real: 1 - 9999 (96 per quarter note)
External Sync:	MIDI sync clock, song position pointer
Modes:	Normal, Loop, Auto Punch In/Out, Auto Punch In, Auto Punch Out, Manual Punch In/Out, Key On Recording
Available Time Signatures:	1, 3/2, 4, 8, 16
Number of simultaneously Input steps:	128 (total of all tracks)
Number of simultaneously Output steps:	128 (total of all tracks)
Song Data Edit:	Micro Edit (per event), Song Exit (per measure)
<i>*With Hard Disk option, Max. Songs per area (1 area equivalent to 1MF2-DD): 64 (16 areas with 20 MB, 32 areas with 40 MB, 48 areas with 60 MB, 64 areas with 80 MB)</i>	
Sound Source	
Sound Source:	Differential interpolation method
Signal Processing:	Expanded 16-bit dynamic range
Max. Polyphony:	16-voice polyphonic (8 channel multi-timbral)
Sampling Rate:	15kHz and 30kHz
Max. Sampling Time:	14.4 sec. x 2 banks (at 15kHz), 7.2 sec. x 2 banks (at 30kHz)
Internal Memory	
Wave Data:	512k word (ROM), 512k word (RAM)
Tone Parameters:	96 (64 for ROM, 32 for RAM)
Patch Parameters:	16
Function Parameter:	
MIDI Function Parameter:	

External Memory	
MF2-DD System Disk	
Tone Parameter:	128 (for ROM)
Patch Parameter:	32 (for ROM)
MF2-DD Sound & Song Disk	
Wave Data:	512k word
Tone Parameter:	96 (64 for ROM, 32 for RAM)
Patch Parameter:	16
Function Parameter:	
MIDI Parameter:	
Envelope Generator:	8-step, LVA, 8 step TVF
Sampling Functions:	Manual, Auto, Previous, CD Auto (when CD-5 is used)
Loop Functions:	Manual/Auto, Smoothing
Loop Modes:	One-Shot, Forward, Alternate, Reverse
Front Panel:	3.5" microfloppy disk drive, Bender Modulation Lever, Volume Control, Performance button, Sequencer, Sound, Start/Stop, REC, Tempo, Skip, and Forward/Backward buttons, User button, Function buttons (F1-F5), Exit button, Numeric keys, Cursor dial, Value dial
Display:	240 x 64 dot full graphic LCD
Rear Panel:	Power switch, Headphone jack, Multi-Outputs x 8, Audio Input jack, Gain Level, MIDI In/Out/Thru Pedal (DP-2, EV-5), Control jack, SCSI connector (option), LCD Contrast control
Dimensions:	1014(W) x 301(D) x 106(H)mm (39 7/8" x 11 7/8" x 4 1/8")
Weight:	9.8 kg (21 lbs, 9 oz.)
Accessories:	AC cord x 1, Pin-jack cord (PJ-1M) x 1, System disk x 1, Data disk x 3
Options:	CD-ROM unit (CD-5), Pedal switch (DP-2), Expression Pedal (EV-5), 3.5" microfloppy disk, SCSI Upgrade Kit (KW-30), KS Stand, Footswitch, Sound Library CD-ROM (OMI)

*Specifications and appearance subject to change without notice.

Options



CD-5 CD-ROM Player



USV-1 CD-ROM



EV-5 Expression Pedal



DP-2 Footswitch

KW-30 SCSI Upgrade Kit

Third Party CD-ROM Availability

Optical Media International, creators of the popular "Universe of Sounds™" Digital Sound Sample Library on CD-ROM, supports the CD-5 CD-ROM System by providing a wide selection of high-quality samples with their new "Roland Series" of optional CD-ROM discs.

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