

HAMMOND

THE SOUND THE SOUL THE ONE



Hammond XK-5

XK-5 System The New Original



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The new Hammond Standard for demanding artists, institutions, churches, back-line companies & studio's.

Feel the mighty Hammond® in a lightweight package!

Available in many flexible configurations.

Main Features:

- * New Sound Generator MTW I (Modelled Tone Wheel I)
- * Tube Pre-Amp with 12AU7 and 12AX7
- * Matching transformer Modelling (patent pending)
- * Virtual Multi-Contact Keyboard (patent pending)
- * 5 Sets of Drawbars & Preset Keys
- * Superb Digital Leslie®
- * Virtual Vibrato Scanner
- * Amp Simulator/Effects
- * Extensive Midi control features
- * USB to host

Optional Leslie 3300WP



The Hammond XK-5 System configuration options



The XK-5 System is a modular system and can consist of:

1. Single Manual XK-5
2. Lower Manual XLK-5
3. Stands: ST-XLK5W Wooden stand
ST-XLK5 Silver stand
ST-XLK5 Black stand
4. Pedals: XPK-250 Wooden pedal
XPK-200L, XPK-200, XPK-100
5. Benches: BCH-250 Wooden bench
BCH-250XK Silver bench
BCH-250XK Black bench



HAMMOND The Sound, The Soul, The One



The Heart and Soul of the New Hammond XK-5 System

New! The Modelled-Tone-Wheel generator (MTWI)

The sound of the Hammond XK-5 is generated by the new Modelled-Tone-Wheel generator MTW I that has been developed to exactly recreate all the details of the original Vintage Tone-Wheel-Generator.

It produces 96 Tone-Wheel sounds that are continuously available at any time ensuring fast response to Key-actions. Each Tone-Wheel can individually be adjusted in many ways making it possible to create exact copies of a vintage Tone-Wheel-Generator; you can even create your own! Three models (A100, C3 and B3) are predefined and three can be defined by the user.



New! The Hammond Virtual Multi-Contact Keyboard (patent pending) And Matching Transformer Modelling (patent pending)

The new Virtual-Multi-Contact system (patent pending) and Matching Transformer Modelling (patent pending) are an exclusive invention and design from Hammond. The direct response of the Key-action to the multi-physical contacts and the modelling of the Key-click of the 9 assignable Virtual-Contacts for each key (!!) flawlessly creates the dynamic touch, feel and playing experience as known from the Vintage Hammond console models like the B-3. It allows the simulation from a new, to a dirty and/or worn-out contact system. Another big advantage is, that by leveraging this unique technology, we could substantially reduce the total weight of the instrument.

Pre-Set Combinations

Each manual of the organ is equipped with ten preset combination keys.

In addition, there are two sets of manually adjustable controls for each keyboard,



thus making twenty different registrations which are instantly available, in addition, of course, to the many thousands of variations available by adjustment of the "harmonic drawbars."

New! The Virtual Vibrato Scanner

The XK-5 is equipped with the new Virtual-Vibrato-Scanner. It models the different vibrato delay-lines that were used since the introduction of the Hammond B-3 in 1955. You can select the early vintage models from 1955-1957, 1957-1959 and thereafter.

The rotating control "VIBRATO AND CHORUS" has six possible

positions corresponding to three degrees of vibrato and three degrees of vibrato chorus. The control pre-selects the extent of vibrato or vibrato chorus which will be obtained when either of the manual vibrato "ON-OFF" stops is used.

New! Digital Leslie®

Leslie® simulation is one of the most difficult parts in the recreation of the Hammond® sound. By using the latest

DSP-technology in the XK-5 the famous Leslie-Sound is now

more realistic than ever. Next to the variable Speed parameters there are four (4) adjustable microphones to record the Horn, Drum and Sub-Bass of the Leslie®. The Sub-Bass is used to create a straight Bass sound.

Information Center

The drawbars, control tablets and rotary controls affect the operations necessary



for performance on the organ. Advanced features such as drawbar voice mode, pedal sustain length etc., are accessed using the Information Center. This allows the player to see and make changes.

New! Extended Midi-implementation for the Virtual-Multi-Contact-system

(patent pending)

With the XK-5 all the details of the

Virtual-Contact-System are sent over multiple Midi-channels to your DAW-system. This means that when playing back the Midi-data you'll hear the exact keyboard response of the recorded performance earlier. You can even change the dynamic touch and feel without re-recording!

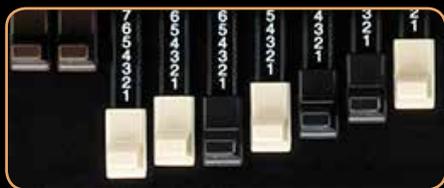
New! USB to Host

The USB-to-Host interface includes Midi-over-USB and Audio-over-USB. With this you can connect you XK-5 directly to your DAW system. It is also used for updating the XK-5 software and for saving and retrieving Setup- and System files.



The Registration Principle of the Hammond Organ

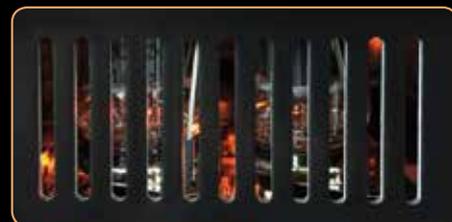
This is the original, unique feature of the Hammond Organ which makes it completely different from any other organ. In the Hammond Organ, the basic elements of all musical tones (the fundamental and its harmonic overtones) are made separately available to the organist. Furthermore, their relative strengths may be adjusted at the will



by the organist. The drawbars of the Hammond Organ are provided for this purpose. Flute-like tones, for instance, may be produced by a certain combination of these drawbars, string-like effects by another combination. Thus, the drawbars provide the tonal ingredients from which the various registrations may be compounded.

Tube Pre-Amp

The XK-5 has on board a superb Tube Pre-Amp with 12AX7 and 12AU7.



The XK-5 The New Original

Since its introduction in 1955, the Hammond B-3 has become the essential performance tool for the world's great keyboard players. The instantly recognizable B-3 sound is essential in the world of popular music, while no concert stage would seem complete without a B-3's imposing wooden cabinet.

Now, for the first time, Hammond has exactly replicated the original Vintage B-3 playing experience by using a complete new developed digital tone wheel system MTW I, (Modelled Tone Wheel I) including a revolutionary and unique

Virtual Multi-Contact Keyboard (patent pending) in an easy to carry light weight vintage look!

Two 61 note manuals with waterfall keys allow for the essential performance characteristics of the Hammond masters. Four complete sets of Harmonic Drawbars and programmable Preset Keys allow total ease of set up.

The Drawbar Foldback feature subtly affects the overall sound, while the all-new Virtual Multi-Contact mechanism (patent pending) creates the famous "Key Click" an essential component of the B-3 character. Sound dynamics are controlled by an exact copy of the original expression

curve by use of the EXP-100F Expression Pedal.

Leslie® Speaker Connection

Any 11-pin Leslie tone-cabinet can be used with the XK-5 model. We recommend the models 122XB, 3300P (Black road version), or 3300WP (Classic walnut version).





Specifications

Sound Generator

MTW I (Modelled Tone Wheel I)
61 polyphony (for manual)
5 polyphony (for pedal)

Keyboards

73 (61 + 12 Preset Keys)
Waterfall type
Virtual Multi Contact (patent pending)

Harmonic Drawbars

Upper: 2 x 9 Pitches
Lower: 2 x 9 Pitches
Pedal: 2 Pitches

Voicing

Manuals: 4 choices
(A-100, B-3, C-3, Mellow)

Touch Response Percussion

Percussion On, Volume Soft, Fast
Decay, Second/Third Harmonic

Vibrato and Chorus

Digital Scanner

Tube Pre-Amp

Device 12AX7, 12AU7
Adjustable: Routing, Level

Overdrive

Control: On, Depth

Multi Effects

8 programs

Equalizer

Bass, Mid, Treble, Tone

Internal Leslie

Advanced Digital, 2 Rotors
Buttons: Bypass, Stop, Fast

Reverb

Digital, 11 programs
Control: On, Depth
Leslie On Reverb

Master Equalizer

Bass, Mid, Treble

Keymap

Pedal to Lower, Split, Transpose,
Octave Down, Octave Up, Lower

Patches

Capacity
100 User Patches
100 Factory Patches
Adjust Preset A#/B

Favorites

10 Keys

Patch Load Options

Drawbar Registration
Drawbar Parameters
Internal Zone
External Zone
Effects, Reverb

Controllers

Volume
Master Volume

Switch

Power On/Off.

Storage

Internal/USB Flash Drive

Display

20 - Characters, 2 - Lines
7 Control Buttons and Value knob

MIDI

Templates
5 Templates

Zones

3 External Zones (Upper)
2 External Zones (Lower)
1 External Zone (Pedal)
and Keyboard Channels:
Upper, Lower, Pedal

Connections

MIDI

In (Pedal), In (Lower/Other), Out

USB

To Host

H-Bus

To Keyboard/Pedal (0.3A max)

Audio

Line Out L/Mono, R, Headphones
(Rear, Bottom)

Leslie

11 - pin standard

Others

Leslie Switch, Foot Controller 1, 2
Expression Pedal
AC Inlet

Dimensions

119 (W), 40 (D), 12 (H) cm
46.8" (W), 15.8" (D), 4.7" (H)

Weight

15.7 kg
34.6 lbs



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Hamamatsu, Japan