

# FR-7b/-5b

## V-Accordion

### Roland's Button-type Accordion

Equipped with a 92-button right-handed keyboard, it offers all of the original V-Accordion's benefits, with several important additions. The Roland FR-7b/5b are the first instruments of their kind to integrate powerful digital technology into a traditional chromatic accordion design, offering performance features and sounds that appeal to a wide range of musicians.



- The perfect combination of the familiar sounds and nuances of a traditional accordion, combined with the advantages of a versatile digital instrument
- Extremely realistic accordion simulations, with 40 programmable set memories. The factory settings already cater to several popular accordion traditions
- PBM ("Physical Behaviour Modelling") sound generation technology
- Orchestral sounds
- Expanded MIDI functionality for truly flexible performance options.
- Portable instrument with on-board digital amplification (only on the FR-7b)

## Sound

The FR-7b/5b features a 128-voice polyphonic sound engine, 428 tones in 40 accordion sets (each including 14 Treble registers, 7 Bass registers, 7 Free Bass registers, 7 Orchestral Bass registers, 7 Orchestra Chord registers, 7 Orchestra Free Bass registers and 22 Orchestral Sounds).

## PBM (“Physical Behaviour Modelling”)

At the heart of the FR-7b/5b is Roland’s proprietary PBM technology for breathtaking sounds and amazing modelling possibilities. Physical Behaviour Modelling uses complex algorithms for accurate recreations of every detail of a wide variety of acoustic accordions. All physical behaviour aspects and expressive nuances of an acoustic instrument are faithfully reproduced.

## Simulations

The FR-7b/5b is capable of simulating up to 40 different accordions (or to create as many virtual instruments) based on samples of popular traditional acoustic accordions, each with its own “idiosyncratic” tuning. It is possible to switch from an Italian jazz accordion to German folk, French Musette, or a historic Bandoneon sound—without physical modifications to the instrument itself. On top of that, each sound can be played using the same familiar accordion techniques.



## Orchestral sounds

The FR-7b/5b incorporates Roland’s acclaimed orchestral sounds. 22 orchestral sounds are provided for the treble keyboard, while each bass section (bass, chord, free bass) can trigger its own orchestral sounds.

## Flexibility

The V-Accordion faithfully reproduces the familiar sounds and nuances of a traditional accordion, while granting the versatility, flexibility and advantages of a digital musical instrument. You can select and switch between a wide range of sounds and/or accordion types, or create your own unique timbres. Furthermore, both keyboards can be transposed to play within a wide range of keys and octaves.

## Unique all-in-one

The FR-7b contains a digital amplification system powered by a rechargeable Ni-MH battery pack, and is thus a self-contained instrument. The battery pack powers a pair of neodymium woofers and tweeters for a consistent, full range low-end to high-end output. The high-resolution bellows pressure sensor provides amazing expressive power not available on conventional digital keyboard instruments.

The FR-5b contains the same features and sounds of the flagship model of the V-Accordion line but without the speakers and amplification system. The rechargeable Ni-MH battery pack is optional, providing a lightweight model for stage performance. The FR-5b is available in red or dark grey.

## Expand your performance capabilities

The V-Accordion introduces revolutionary expressiveness for a digital musical instrument. The right- and left-hand keyboards are both velocity-sensitive, while a master bar adds even more creative options (including aftertouch control). The high-resolution bellows pressure sensor provides amazing expressive power, not available on conventional digital keyboard instruments. Utilizing the high/low modes (notes above/below the first key you press play a different sound), you can control up to 4 parts simultaneously in real-time. Also the FR-7b/5b’s bass section has been expanded to include control of additional orchestral sounds via the orchestra chord and orchestra free bass sections. Moreover, the FR-7b/5b is MIDI-compatible and can be used to control external modules.

### FR-7b/-5b Specifications

■ **Keyboard & Bellows** Right hand: 92 velocity-sensitive buttons, Master Bar with aftertouch control, Left hand: 120 bass buttons with velocity-sensitive, Keyboard modes: Right hand: Solo, Dual, High, Low (for Orchestral Sounds), Left hand: Standard, Free Bass, Orchestral Bass, Orchestral Chord, Orchestral Free Bass, Bellows: Real pneumatic detection by a high resolution pressure sensor ■ **Sounds** Tones (Accordion Sets): 40 User Programmable Accordion sets \* Each Set includes: 14 Treble registers, 7 Bass registers, 7 Free Bass registers, 7 Orchestra Bass registers, 7 Orchestra Chord registers, 7 Orchestra Free Bass registers, 22 Orchestral sounds. Treble reed footages: 7, Bass reed footages: 5, Chord reed footages: 3, Free Bass footages: 2, Orchestral sounds: 22 sounds: Trumpet, Trombone, Alto Sax, Tenor Sax, Clarinet, Oboe, Harmonica, Muted Harmonica, Violin, Pizzicato, Flute, Pan Flute, Highland, Zampogna, Jazz Organ, Perc. Organ, Rotary Organ, Trem. Organ, Scat Voice, Mandolin, Acoustic Guitar, Acoustic Piano, Orchestra Bass sounds: 7, Acoustic Bass, Bowed Bass, Fingered Bass, Picked Bass, Fretless Bass, Bariton Tuba, Bariton + Bass, Orchestra Free Bass sounds: Trombone, Clarinet/Oboe, Flute, Perc Organ, Ac Guitar, Ac Piano, Orchestral Chord: Trombone, Tenor Sax, Clarinet, Trem Organ, Voice, Ac Guitar, Ac Piano ■ **PBM (Physical Behaviour Modeling)** Noises: Stopping-reed growl, Closing valve noise, Left button noise, Individual reed simulation: Hysteresis threshold, Expression curve, Pressure-variant filter, Pressure-variant pitch deviation, Switching Reed Sound Wave: By bellows acceleration, By note repetition speed ■ **Musette tuning** Musette

microtuning presets: 16: Off (Standard), Dry, Classic, F-Folk, American L/H, North Europe, German L/H, D-Folk L/H, Alpine, Italian L/H, French, Scottish ■ **Effects** Reverb: 8 types, Chorus: 8 types, Delay: 8 types, Rotary for Orchestral Organ Sound: Slow/Fast, “Cassotto” and “Sordina” simulations: Yes ■ **Panel controls** Knobs Controls: Volume, Treble/Bass Balance, Reverb, Chorus, Delay, Encoder: Data entry with selection/confirmation switch ■ **Panel switches** Treble registers: 14 + Master + Orchestra, Bass registers: 7, Navigation switches: Up, Down, Menu/Write, Exit/Jump, Other switches: Set Up/Down, Sordina on/off, Power ■ **Others** Display: 48 x 84 dots graphic backlit LCD, Rated Power Output: 2x25 W RMS (only FR-7b), Speakers: 10 cm x 2 speakers (using Neodymium transducer Magnets), Tweeters x 2 (only FR-7b), Onboard sockets: Headphone jack (stereo), Output jacks: L/Mono(Treble), R/Mono(Bass), Multi connector (to FBC-7), Options: Rechargeable Ni-Mh battery pack 24V-4500mAh (only FR-5b) , V-Accordion Gigbag, FBC-7 Gigbag, Colors: Dark Grey, Red, Supplied accessories: FBC-7 (power supply/battery charger): 5 programmable foot switches: -Set Up/Down, -Register Up/Down, -Sustain, Multi connector (towards accordion), Expression pedal jack, MIDI IN/OUT/THRU sockets, Output jacks (L/Mono, R), AC Inlet, Owner’s Manual, straps, accordion cloth, treble reference caps, bass reference caps, power cable, 19-pin multicore cable ■ **Dimensions** 506 (W) x 270 (D) x 405 (H) mm, 19-15/16 (W) x 10-11/16 (D) x 16 (H) inches ■ **Weight** FR-5b: 9.5 kg, 21 lbs (without the straps and optional battery), FR-7b: 11,7kg 25 lbs 13oz (with the battery, without Straps)

\* The specifications are subject to change without notice.