**FR-18 diatonic**

**Take one, get more.**

**RAM 4677 RAMRES 807-15 605.00.0246**

www.roland.com

Note: in the interest of product improvement, the specifications and/or appearance of this unit are subject to change without prior notice.

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**Keyboard, Bass & Bellows**

- **Right hand**: 37 buttons, velocity sensitive.
- **Left hand**: 18 bass buttons, velocity sensitive.
- **Tablature**: 12 types to configure treble button keyboard and Bass & Chord buttons.
- **Key**: 12 keys to play in all tonalities: C, C#, D, Eb, E, F, F#, G, Ab, A, Bb, B.

- **Bellows**: Real pneumatic detection of bellows pressure (high-resolution pressure sensor), Bellows Resistance regulator.

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**Sound source**

- **Tones (Accordion Set)**: 12 accordion sets, each including:
  - 8 Treble registers
  - 3 Bass & Chord registers
  - 3 Orchestra Bass registers
  - 3 Orchestra Chord registers
  - 8 Orchestra sounds
  - 4 Organ sounds

- **Reed Footages**: 5 Treble, 3 Bass, 2 Chord.

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**Orchestral sounds**

- 8 different for each Set.

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**Organ sounds**

- 4: Blues, Distortion, Full Draw, 3rd Percussion (slow/fast Rotary settings for each).

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**Orchestral Bass sounds**

- 3 different for each Set.

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**Orchestral Chord sounds**

- 3 different for each Set.

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**PBM (Physical Behaviour Modelling)**

- Noises: Stopping-reed growl, closing valve noise, left button noise.
- Individual Reed Simulation: Hysteresis threshold, expression curve, pressure-variant filter, pressure variant pitch deviation.
- Reed sound wave switching: By bellows acceleration, by note repetition speed.

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**Musette Tuning**

- Micro-Tuning Presets 15 (Dry, Classic, F-Folk, American L/H, North Europe, German L/H, D-Folk L/H, Alpine, Italian L/H, French, Scottish).

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**Effects**

- **Reverb/Chorus**: 8 types, 8 types.
- **Rotary**: Slow/Fast (for organ sounds).

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**Panel Controls**

- **Knob Controls**: Volume, Registers: 4 x Treble, Orchestra, Organ, Set; 3 x Bass, Orchestra Bass, Orchestra Chord.
- **Buttons**: Power On/Off, Orchestra/Organ, Orch Bass, Orch Chord, Left Register/Battery, Drums/Default, Key/Demo, User Prog/Dec, Tablature/Inc.

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**Operation mode**

- **User Programs**: 4
- **Octave Down(-)**, 0 Up (+) (for Treble, Orchestra and Organ).
- **Orchestra/Organ Modes**: Solo, Dual.
- **Chord mode**: Full or without the 3rd chord degree.
- **Drums**: 4 drum/percussion sets.

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**Power supply**

- **Supplied**: External AC adapter PSB-1U (100V~240V universal) or optional batteries.
- **Power consumption**: 500 mA (using external adaptor).
- **Battery**: (optional) 8 x AA type Ni-MH 2000 mAh – batteries ±5.5 hours. This varies depending on the actual conditions of use.

Note: Carbon and alkaline batteries should not be used. Be sure to only use rechargeable Ni-MH AA-type batteries.

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**Others**

- **Connectors**: MIDI connector OUT/IN (adjustable via Function parameter), USB MIDI (computer connection) DC IN socket.
- **Output Jack**: L/Mono (Treble), R/Mono (Bass); Headphones jack (Stereo).
- **Power Supply**: External AC adaptor PSB-1U (100 ~ 240V, universal).
- **USB Memory port**: storage devices.
- **Wave Expansion**: 2 internal areas (8Mb each) to load new sounds.

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**Size and Weight**

- **Size (mm)**: 375 (H) x 365 (W) x 195 (D) mm; 14-13/16 (H) x 14-3/8 (W) x 7-11/16 (D) inches.
- **Weight**: 5.3 kg/11 lbs 11 oz (without straps and optional batteries).

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**Supplied Accessories**

- 1/4” phone (guitar) cable, Earphones (with 1/8” 1/4” adaptor plug), External PSB-1U AC adaptor, Owner’s Manual, Strip for securing the adapter, MIDI and/or audio cables, Hexagonal wrench, Straps, Replaceable “traforo” inlay sheets.

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**Optional Accessories**

- Colour variation: Black, Red.
- BAG FR-1 Accordion soft bag.
- CM-30 Cube Monitor.
- CUBE street Stereo Amplifier.
- SA-300 Stage Amplifier.
- Mobile Cube Stereo Amplifier.
- AMC-3 Audio/Midi cable.
- AAP-1 Music Rest and Throne.

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Download a QR scanner application for your Smartphone and scan this image to instantly access the relevant web page.
The FR-18 diatonic V-Accordion is a dream for accordionists seeking a world-class diatonic instrument that can do it all. With the same sound quality as Roland’s acclaimed V-Accordion line-up and with dedicated new samples, the FR-18 digital diatonic will satisfy traditional folk-based musicians.

Available in black and red, the FR-18 fits into a variety of playing environments, preserving elegance and respecting tradition.

12 TABLATURES TO SELECT VARIOUS DIATONIC MODELS
The FR-18 diatonic comes with 12 typical tablatures to cover the most important Treble/Bass and Chord layouts. These tablatures allow you to try new configurations and play different kinds of tablature files.

12 TONALITIES PLAY IN ANY KEY
With 12 tonalities in one instrument, playing in a band is no problem. The Key function allows diatonic musicians to easily play tunes in any tonalities without being forced to change their technical or layout configuration.

12 SETS TO COVER WIDE MUSICAL GENRES
12 Accordion (tone) Sets to cover a lot of musical genres.

DEDICATED ACOUSTIC AND ORCHESTRAL SOUNDS FOR EACH SET
The FR-18 diatonic comes with eight treble orchestra, three orchestra bass and three orchestra chord sounds that are different for each set. This means that each set (Folk, Classic, Tradition, Organetto and so on) will recall dedicated orchestral sounds relevant to that set. These user sets allow the musician to customise the FR-18 diatonic with new acoustic and orchestral sounds. Dual mode function allows the accordionist to layer orchestral and accordion sounds for the right hand, so as to extend the melody part.

USB MEMORY FOR USER DATA AND SOUND LIBRARY MANAGEMENT
The USB port allows you to customise your instrument with new orchestra and accordion sounds. You can also save and load user program data, load user set data and manage tablature files.

USER PROGRAMS FOR INSTANT SAVING AND RECALLING INSTRUMENT DATA
Four user programs to easily recall settings.

PERCUSSION CONTROLLED BY BASS AND CHORD
Percussion accompaniment controlled by Bass and Chord to simplify your performance.

REPLACEABLE GRAPHIC INLAY SHEETS TO PERSONALISE THE INSTRUMENT
The FR-18 diatonic comes with changeable inlay sheets which enable owners to change the accordion’s appearance by replacing the sheets. End-users can create their own custom-designed inlay sheets using an A4 printer or using commercially available paper such as wall papers or cutting sheets etc.

AIR BUTTONS AND BELLOWS RESISTANCE REGULATOR
The Bellows resistance regulator allows the musician to control the sensitivity of the bellows, making the bellows easier to push or pull.

TABLATURE SOFTWARE CREATOR
A free software program for PC and Mac will soon be available on the Roland website. This dedicated software will allow you to personalise the layout of the FR-18’s keyboard and bass buttons, turning the FR-18 diatonic into a truly “open instrument”. Users can create their own layout for keyboard and bass buttons, turning the FR-18 diatonic into a truly “open instrument”.

CHORD MODE SELECTION
This function selects chord mode in the left hand, removing the third degree in the chord and allowing musicians to play complex chord combinations, especially when playing jazz music.

HEADPHONE SOCKET TO PRACTISE WITHOUT DISTURBING NEIGHBOURS
A headphone socket enables you to practise at night and in small apartments without disturbing the neighbours.

MIDI IN/OUT
MIDI IN/OUT connection to expand your creativity using sequencers, sound modules and so on.

Traditional diatonic acoustic accordions have only one tonal key, but the FR-18 has no limits because musicians can create their own instrument in real time. The introduction of orchestral and percussion sounds as well as virtual tone wheel organs means that the FR-18 can adapt to any kind of musical genre.

The FR-18 has no internal speakers so it’s extraordinarily light. A pair of inner-earphones is also included so the musician can play diatonic accordion immediately after opening the box.

As a silent diatonic accordion, the FR-18 is perfect for practising in the evening and in small apartments. A long battery life means the FR-18 can be used in all types of situations, indoors and outdoors.
FR-18 diatonic SPECIFICATIONS

**Keyboard, Bass & Bellows**
- Right hand: 37 buttons, velocity sensitive.
- Left hand: 18 bass buttons, velocity sensitive.
- Tablature: 12 types to configure mobile button keyboard and Bass&Chord buttons.
- Key: 12 keys to play in all tonalities: C, C#, D, Eb, E, F, F#, G, Ab, A, Bb, B.
- Bellows: Real pneumatic detection of bellows pressure (high resolution pressure sensor), Bellows Resistance regulator.

**Sound **
- Piano/accordion set: 12 accordion sets, each including: 8 treble registers, 3 bass & chord registers, 3 orchestra bass registers, 3 orchestra chord registers, 6 accordion sounds, 4 organ sounds.
- Wind PortaPianos: 9 Treble, 3 Bass, 3 Chord.

**Orchestrion sounds**
- 3 different for each set.

**Organ sounds**
- 6 Black, 6 White, 10 Bass, 6 Bass, 6 Treble, 6 Bellows, 6 Pedal settings (drive each setting for each set).

**Orchestral sounds**
- 12 different for each set.

**Sound Engine**
- Independent sound engine, 8 types, 8 channels.
- Rotary sound wave switching: By bellows acceleration, by note repetition speed.

**Voice Engine**
- 15 (Dry: Classic, F-Folk, American L/H, North America, German L/H, D-Folk L/H, Alpine, Italian L/H, French, Scottish).
- Effects: Reverb/Chorus (8 types, 8 types).

**Panel Controls**
- Knob Controls: Volume, Registers: 4 x Treble, Orchestra, Organ, Set 3 x Bass, Orchestra Bass, Orchestra Chord.

**User Programs**
- User Programs: 4

**Octave Control**
- User programs: 4

**Drum Sounds**
- Drums: 4 drum/percussion sets.

**Effects**
- Reverb/Chorus (8 types, 8 types).

**Power Supply**
- Power supply: External AC adapter PSI-1 (100V-240V universal) or optional batteries.

**Unit Specifications**
- External AC adapter PSI-1 (100V-240V universal).

**Size and Weight**
- Size (mm): 375 (H) x 365 (W) x 195 (D) mm; 14-13/16 (H) x 14-3/8 (W) x 7-11/16 (D) inches.
- Weight: 5.3 kg/11 lbs. 11 oz. (without straps and optional batteries).

**Supplied Accessories**
- 1/4” phone (guitar) cable, Earphones with 1/4” jack, External PSI-1 AC adapter, Owners Manual, Strip for securing the adapter, MIDI and/or audio cables, Hexagonal wrench, Straps, Replaceable “traforo” inlay sheets.

**Optional Accessories**
- Colour variation: Black, Red.

**Dimensions**
- External AC adapter PSI-1 (100V-240V universal).

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