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FR-7x  
FR-3x  
FR-1

FR-7xb  
FR-3xb  
FR-1b

FR-18d



# FLEXABILITY

DIGITAL FLEXIBILITY  
FOR YOUR MUSIC ABILITY

# Roland

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## HISTORY



After several years of research, in 2004 the dream of Roland's founder, Mr. Ikutaro Kakehashi, came true: Roland developed the V-Accordion, the first digital accordion based on a new technology called "Physical Behaviour Modelling". The V-Accordion models are made in Italy, by Roland Europe in Acquaviva Picena,

in the Marche region. This factory in Italy belongs to the Roland Corporation group, whose headquarters is located in Japan. The production of V-Accordions is quite a long, accurate and precisely arranged working process resulting from a strong passion to create high-quality and appealing products.

**Made in Italy**  
the heart of Italy - with passion from Acquaviva Picena



## THE TECHNOLOGY

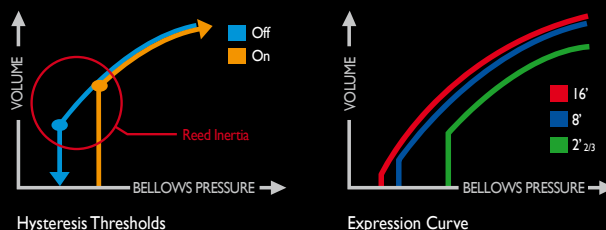
### PBM (Physical Behaviour Modelling)

At the heart of the V-Accordion is Roland's new, proprietary PBM sound engine and modelling technology. Physical Behaviour Modelling uses complex algorithms to accurately recreate an acoustic accordion's sound characteristics. The result is a faithful simulation of the actual physical behaviour and expressive nuances of an acoustic instrument.

### Bellows Movement Modelling

PVA (Pressure Variant Amplifier)

This function controls the dynamics of each reed sound, based on the high-resolution bellows pressure sensor. Starting and stopping, hysteresis threshold, inertia, expression curve, and volume are all individually programmed to reproduce a true free-reed sound.

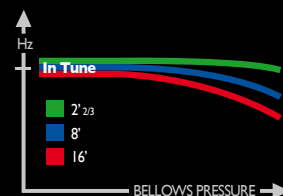


### PVF (Pressure Variant Filter)

The tone colour of each reed sound is also shaped in real-time by the dedicated DSP (Digital Signal Processor), responding accurately to each expressive playing nuance applied by the bellows.

### PVP (Pressure Variant Pitch)

The pitch of each simulated reed is varied individually. As the bellows is pushed or pulled more forcefully, the sound becomes fatter and richer, because each simulated reed exhibits a "natural" tendency to go out of tune.



### Musette Tuning

Based on extensive research of the different tuning types used throughout the world the V-Accordion's note-by-note micro-tuning feature allows a V-Accordion to authentically reproduce many different accordion types for various genres of music.

PIANO-TYPE



## V-ACCORDION LINE-UP PIANO-TYPE



Alcantara® is a registered trademark of Alcantara SpA, Italy.

The Roland V-Accordion series of piano type instruments comprises 3 models and 3 colour variations: FR-7x (black, red), FR-7x WHITE, FR-3x (black), FR-3x WHITE, FR-1 (white). The flagship, the FR-7x, provides 41 velocity-sensitive piano-type keys with aftertouch, 120 bass buttons, 80 Accordion sets and a Master bar. The lightweight and portable FR-3x is fitted with 37 velocity-sensitive keys, 120 bass buttons. How about treating yourself to something exclusive? With WHITE version you are sure to stand out from the crowd: the elegant pearl-white cabinet and gorgeously decorated bellows are complemented with highly attractive accessories (shoulder straps, bass strap, back pad and bellows clips ) made of real leather and Alcantara®. The lightweight and flexible FR-1 is ideal for young students and stage performers. Thanks to their sound quality, small size, attractive price, they set a new standard in learning and live performance. The V-Accordion offers selectable Bass & Chord modes (7 modes: 2 Bass Rows, 3 Bass Rows A7th, 3 Bass Rows A5dim, 3 Bass Rows B7th, 3 Bass Rows B5dim, 3 Bs Rows Bx 7th 3, Bass Rows Belgium) and Free Bass modes (5 modes: Minor 3rd, Bajan, Fifth, N.Europe, Finnish).

## V-ACCORDION LINE-UP PIANO-TYPE



Sergio Scappini

Sergio Scappini teaches accordion at the "Giuseppe Verdi" music academy in Milan.

He won a lot of national and international competitions, among them the XXIV "Trophée Mondial de la C.M.A." (Confédération Mondiale de l'Accordéon).

Roland Europe invited him to collaborate with its V-Accordion project, the first digital accordion in the world, which he later showcased in Italy, Germany, Japan, China, South Korea, Switzerland, Canada, Usa, Croatia, Australia and Spain.

He's currently actively involved in the promotional activities of Roland's V-Accordion instruments aimed at unconditionally spreading the value of the accordion instrument worldwide. On November 2010 he received the "HAMAMATSU ELECTRONIC ARTS AWARD" which is certainly one of the most fascinating awards received from the corporation.



# FR-7x TOP CLASS



Alcantara® is a registered trademark of Alcantara S.p.A. Italy.

## COLOURS



## Super Realistic Accordion Simulations

The FR-7x has 41 keys (with velocity and aftertouch), 120 velocity-sensitive bass buttons (6 bass & chord modes and 5 free bass modes to suit your playing style) and can simulate up to 80 different accordion instruments each including 14 treble registers, 26 orchestral sounds, 7 bass & chord registers, 7 free bass registers, 7 orchestral free bass, 7 orchestral bass registers, and 7 orchestral chord registers. Thanks to the Bass to Treble mode the FR-7x can be used like a “Bassoon Accordion”.

In this mode the bass part is played with the right hand (the bass and chord buttons are inactive). Moreover the programmable Drum function allows you to play percussion sounds with the Bass & Chord buttons. There's even a unique Bellows Resistance Regulator that can be set to match the player's strength or preference. Increasing or decreasing the bellows' inertia is simply a matter of selecting one of four positions on a conveniently located wheel.

## ...and organ simulations

Thanks to the Virtual Tone Wheel sound engine, the FR-7x allows you to play amazing organ sounds, by using Treble (upper), Chord/Free Bass (lower) and Bass (pedal) sections.

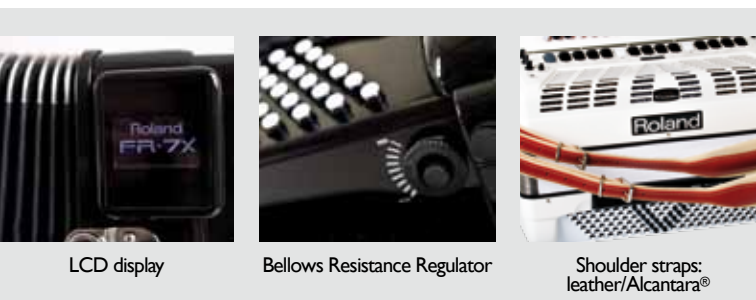
Virtual Tone Wheel controls will allow you to personalize your organ sounds to satisfy every musical genre.

## USB host port onboard

Easy data storage, handy customization of V-Accordion sound-sets to satisfy special accordion/orchestra demands from different countries, and easy to upload software versions, thanks to the USB Flash Memory. What's more, you can manage MP3 and Wav files and even record your performances in Wav format on the optional USB Flash Memory. Playback and record functions are perfect for educational use, and enhance live performance too.

## Battery-powered instrument with built-in speakers

Though the FR-7x is a fully digital instrument, it's also an all-in-one instrument, i.e. you do not need to connect it to any amplifier to produce sounds. Its onboard amplification system is powerful enough for small venues, restaurants, pubs... Furthermore, the FR-7x comes with a rechargeable battery, so that you do not need to connect it to a power outlet. It goes far beyond the control possibilities of a MIDI keyboard with optional performance functions.



LCD display

Bellows Resistance Regulator

Shoulder straps:  
leather/Alcantara®

## Fast response and high sensitivity

Thanks to Roland's newly-developed sound generator, which is optimized for Accordion performance, the FR-7x will satisfy the most demanding accordion players. You will be impressed by the fast response of the keys/buttons, the higher sensitivity and precision, and the detection of bellows opening/closing with new bellows pressure-sensor circuitry. Thanks to this new technology, accordionists can feel perfectly at ease when playing their music, especially once they have experienced the enhanced response of this instrument. The exclusive, special edition, pearl-white FR-7x piano-type is the star of the piano-keyboard V-Accordion series. Lightweight, compact, the “WHITE” model looks gorgeous, with a beautifully decorated bellows and genuine leather and Alcantara® straps.

# FR-3x COMPACT CLASS



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## COLOURS



- Faster response and higher sensitivity of the bellows thanks to the new bellows sensor.
- Bellow Resistance Regulator to adjust the bellows' inertia.
- USB Flash Memory connector to store/upload your settings and manage MP3 and Wav files.
- Powerful onboard amplification system.
- Super realistic accordion simulations.
- Drum parts to be played with your left hand.
- MIDI external control.
- It can be powered using 10 commercially available rechargeable Ni-MH batteries.

## Sophisticated bellows response

Faster response and higher sensitivity and precision plus detection of bellows opening/closing with new bellows pressure sensing circuitry. A bellows resistance regulator knob allows you to adjust the bellows' inertia to your preference.

## Super realistic accordion simulations

All sounds the FR-3x produces were obtained by sampling popular traditional acoustic accordions. This V-Accordion allows you to switch from an Italian jazz accordion to German folk, French musette or Russian bayan sound – without changing your technique. Also the Virtual Tone Wheel is available to play amazing organ sounds in almost the same way as an organ player using the treble section. You can add a rotary effect (slow/fast). Besides enjoy using the FR-3x to play simply drum parts with your left hand (bass and chord sections).

## Stand-alone electronic instrument

Though the FR-3x is a fully electronic instrument, you do not need to connect it to an amplifier in order to produce sounds. Its onboard amplification system is for small venues, restaurants, etc. The FR-3x can also be powered using 10 commercially available rechargeable Ni-MH batteries, so that you don't need to connect it to a wall outlet.

## Save your settings to a USB storage device

You can save your settings by connecting an optional USB memory to the FR-3x's USB port. Also the USB host allows you to customize orchestra and accordion sounds and to save/load the user program data. What's more, you can play MP3 and Wav files

## Superb performance flexibility

The FR-3x allows you to control external MIDI-compatible instruments. The Treble keyboard and chord/bass buttons are velocity-sensitive, while the bellows controller provides more articulation possibilities than any other MIDI keyboard, MIDI wind instrument, etc., you may know.



LCD display



Compartment for optional AA-type batteries (rechargeable)



Two-toned bellows: white/purple red

The perfect combination of the familiar sounds and nuances of a traditional accordion combined with the advantages of a versatile digital instrument. Thanks to the new bellows pressure sensing circuitry, the FR-3x grants faster response and higher sensitivity and precision plus detection of bellows opening/closing. The USB host allows to customize orchestra and accordion sounds and to save/load user program data, while the bellows resistance regulator allows to control the handiness of the bellows. Lightweight and portable the FR-3x is perfect for students, accordion hobbyists, but also stage performers. Lightweight and compact, the "WHITE" model looks gorgeous, with a beautifully decorated bellows and genuine leather and Alcantara® straps.

# FR-1 JUNIOR CLASS



COLOURS



## Free Bass Mode and Bass to Treble Mode for even more flexibility

The FR-1 gives you much more freedom in your performance, thanks to the Free Bass mode, which is chiefly used by musicians who want to play melodies and form their own chords with their left-hand (Bass&Chord section). A free bass system (3 free bass registers and 3 orchestral free bass registers) uses a button board of single-note buttons with a range of three octaves or more. The FR-1 can be used like a “Bassoon accordion”. In this mode the bass part is played with the right hand (the bass and chord buttons are inactive).

## Ideal for students...

Thanks to its small dimensions, the FR-1 is perfect for young beginners and music schools.

## ...and for performers

Compact, but with no compromise on sound quality, the FR-1 is ideal for stage performers and keyboardists. Thanks to its long battery life, the player can walk easily on stage without worrying about time. 8 x AA type 2000mAh Ni-MH Batteries will give you more than 5 hours of playing time, so time is certainly not a problem when you are playing the FR-1!

## Make your FR-1 unique!

The FR-1 comes with 5 variations of inlay sheets which enable owners to change the appearance of their FR-1 from time to time by changing these sheets. The player can also create his/her own custom designed inlay sheets using their PC and printer, or by using any kind of commercially designed paper.

## Advanced musical expression

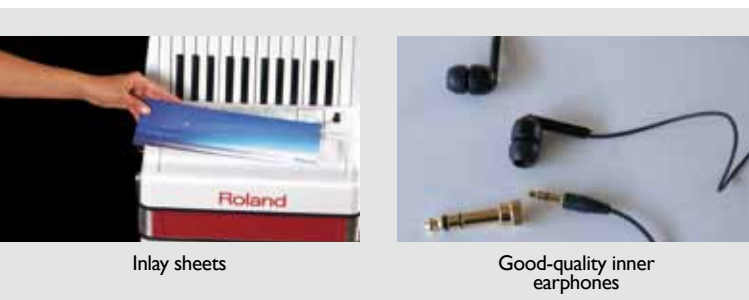
With the FR-1 you can simulate up to 7 different Accordions each including 8 Treble registers, 3 Bass registers, 3 Orchestra Bass registers, 3 Orchestra Chord registers, 3 Free Bass registers, 3 Orchestra Free bass registers, 4 Orchestra sounds. Also, with the innovative presence of 4 Organ presets (Harmonic Bar) with rotary effect, you can produce amazing organ sounds as well! You can now even play to your own beat, adding percussion sounds with the bass & chord buttons!

## Small Size and Big Performance

Sound quality, small size, attractive price.

The FR-1 piano type sets a new standard in learning and live performance in only 5.5 kg.

Moreover it is provided with a 26-note piano-type treble keyboard and 72 velocity-sensitive bass buttons (6 bass & chord modes to suit your playing style).





## BUTTON-TYPE



## V-ACCORDION LINE-UP BUTTON-TYPE



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The Roland V-Accordion series of button type instruments comprises 3 models and 3 colour variations: FR-7x (black, red), FR-7x WHITE, FR-3x (black), FR-3x WHITE, FR-1 (white).

The flagship, the FR-7x, provides 92 button velocity-sensitive button type keyboard, 120 bass buttons, 80 Accordion sets, and a Master bar. The lightweight and portable FR-3x is fitted with 92 button velocity-sensitive button-type keyboard. How about treating yourself to something exclusive? With WHITE, you are sure to stand out from the crowd: the elegant pearl-white cabinet and gorgeously decorated bellows are complemented with highly attractive accessories (shoulder straps, bass strap, back pad and bellows clips) made of real leather and Alcantara®. The lightweight and flexible FR-1 button type is ideal for young students and stage performers. With their sound quality, small size, attractive price, they set a new standard in learning and live performance. The treble-button modes (C-Griff Europe, C-Griff 2, B-Griff Bajan, B-Griff Fin, D-Griff I, D-Griff 2) allow players to use the system they have grown accustomed to. After all, the button keyboard layouts of acoustic accordions are as divers as the sounds themselves. The V-Accordion offers selectable Bass & Chord modes (7 modes: 2 Bass Rows, 3 Bass Rows A7th, 3 Bass Rows A5dim, 3 Bass Rows B7th, 3 Bass Rows B5dim, 3 Bass Rows Belgium) and Free Bass modes (5 modes: Minor 3rd, Bajan, Fifth, N.Europe, Finnish).

## V-ACCORDION LINE-UP BUTTON-TYPE



Ludovic Beier

Born in 1978, Ludovic Beier learned the accordion from his father and benefits from being part of a musical family. He was brought up in the French tradition of the instrument and turned to jazz a few years ago. At only 25 years old, he was playing on the French, European and American scene with some of the top players of the Jazz style including Angelo Debarre, Paquito D'Rivera, James Carter and even Toots Thielemans at Carnegie Hall in New York City. He also had the great chance to play at top festivals and places around the world such as: Birdland (NYC), Olympia, Salle Pleyel (Paris), Blue Note (Milano), Festival de Jazz de Montreal (Canada), San Francisco Jazz Festival (US), Phoenix Hall (Osaka) etc. At 33 years old, he certainly is giving the accordion a new name as his fingers go across the keys in an almost unbelievable way, both swinging and amazingly creative in his improvisation. Along with his virtuoso playing, he's a creative rewarded composer and arranger in many different fields: Roland V-Accordion Festivals in Roma since 2008, TV, Movies and talented artist's projects. He recorded several albums with his own name. "Pop, Swing and Fire", the last one was released in May 2011. In 2004 he joined Roland family as a testimonial in the promotional activities of Roland's V-Accordion instruments, bringing the FR7x to some famous stages sharing notes with well known artists.

# FR-7x TOP CLASS



Alcantara® is a registered trademark of Alcantara S.p.A. Italy

## COLOURS



## Super Realistic Accordion Simulations

The FR-7x has 92 buttons, velocity-sensitive, with 6 treble button modes (C-Griff Europe, C-Griff 2, B-Griff Bajan, B-Griff Fin, D-Griff 1, D-Griff 2), 120 velocity-sensitive bass buttons (6 bass & chord modes and 5 free bass modes to suit your playing style) and can simulate up to 80 different accordion instruments each including 14 treble registers, 26 orchestral sounds, 7 bass & chord registers, 7 free bass registers, 7 orchestral free bass, 7 orchestral bass registers, and 7 orchestral chord registers. Thanks to the Bass to Treble mode the FR-7x can be used like a “Bassoon Accordion”. In this mode the bass part is played with the right hand (the bass and chord buttons are inactive). Moreover the programmable Drum function allows you to play percussion sounds with the Bass & Chord buttons. There's even a unique Bellows Resistance Regulator that can be set to match the player's strength or preference. Increasing or decreasing the bellows' inertia is simply a matter of selecting one of four positions on a conveniently located wheel.

## ...and organ simulations

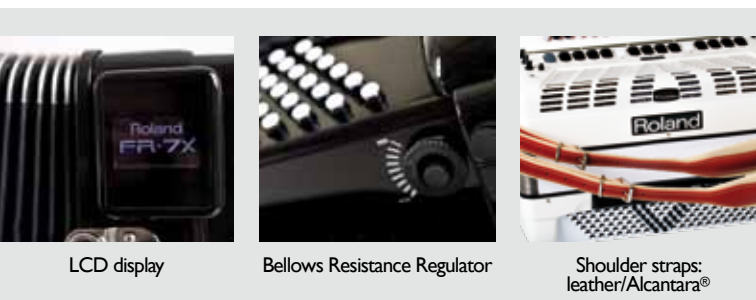
Thanks to the Virtual Tone Wheel sound engine, the FR-7x allows you to play amazing organ sounds, by using Treble (upper), Chord/Free Bass (lower) and Bass (pedal) sections. Virtual Tone Wheel controls will allow you to personalize your organ sounds to satisfy every musical genre.

## USB host port onboard

Easy data storage, handy customization of V-Accordion sound-sets to satisfy special accordion/orchestra demands from different countries, and easy to upload software versions, thanks to the USB Flash Memory. What's more, you can manage MP3 and Wav files and even record your performances in Wav format on the optional USB Flash Memory. Playback and record functions are perfect for educational use, and enhance live performance too.

## Battery-powered instrument with built-in speakers

Though the FR-7x is a fully digital instrument, it's also an all-in-one instrument, i.e. you do not need to connect it to any amplifier to produce sounds. Its onboard amplification system is powerful enough for small venues, restaurants, pubs... Furthermore, the FR-7x comes with a rechargeable battery, so that you do not need to connect it to a power outlet. It goes far beyond the control possibilities of a MIDI keyboard with optional performance functions.



LCD display

Bellows Resistance Regulator

Shoulder straps:  
leather/Alcantara®

## Fast response and high sensitivity

Thanks to Roland's newly-developed sound generator, which is optimized for Accordion performance, the FR-7x will satisfy the most demanding accordion players. You will be impressed by the fast response of the keys/buttons, the higher sensitivity and precision, and the detection of bellows opening/closing with new bellows pressure-sensor circuitry. Thanks to this new technology, accordionists can feel perfectly at ease when playing their music, especially once they have experienced the enhanced response of this instrument. The exclusive, special edition, pearl-white FR-7x button-type is the star of the button-keyboard V-Accordion series. Lightweight and compact, the “WHITE” model looks gorgeous, with a beautifully decorated bellows and genuine leather and Alcantara® straps.



# FR-3x COMPACT CLASS



Alcantara® is a registered trademark of Alcantara S.p.A. Italy

## COLOURS



- Faster response and higher sensitivity of the bellows thanks to the new bellows sensor.
- Bellow Resistance Regulator to adjust the bellows' inertia.
- USB Flash Memory connector to store/upload your settings and manage MP3 and Wav files.
- Powerful onboard amplification system.
- Super realistic accordion simulations.
- Drum parts to be played with your left hand.
- MIDI external control.
- It can be powered using 10 commercially available rechargeable Ni MH batteries.

## Sophisticated bellows response

Faster response and higher sensitivity and precision plus detection of bellows opening/closing with new bellows pressure sensing circuitry. A bellows resistance regulator knob allows you to adjust the bellows' inertia to your preference.

## Super realistic accordion simulations

All sounds the FR-3x produces were obtained by sampling popular traditional acoustic accordions. This V-Accordion allows you to switch from an Italian jazz accordion to German folk, French musette or Russian bayan sound – without changing your technique. Also the Virtual Tone Wheel is available to play amazing organ sounds in almost the same way as an organ player using the treble section. You can add a rotary effect (slow/fast). Besides enjoy using the FR-3x to play simply drum parts with your left hand (bass and chord sections).

## Stand-alone electronic instrument

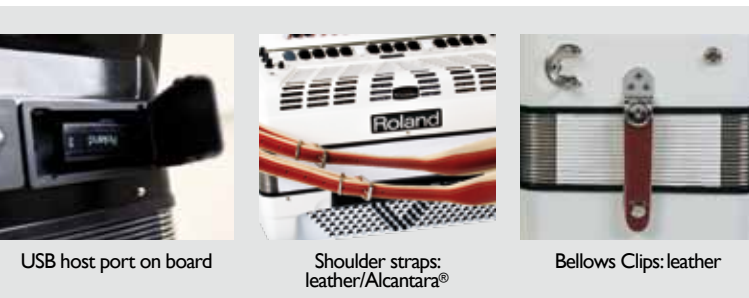
Though the FR-3x is a fully electronic instrument, you do not need to connect it to an amplifier in order to produce sounds. Its onboard amplification system is for small venues, restaurants, etc. The FR-3x can also be powered using 10 commercially available rechargeable Ni-MH batteries, so that you don't need to connect it to a wall outlet.

## Save your settings to a USB storage device

You can save your settings by connecting an optional USB memory to the FR-3x's USB port. Also the USB host allows you to customize orchestra and accordion sounds and to save/load the user program data. What's more, you can play MP3 and Wav files

## Superb performance flexibility

The FR-3x allows you to control external MIDI-compatible instruments. The Treble keyboard and chord/bass buttons are velocity-sensitive, while the bellows controller provides more articulation possibilities than any other MIDI keyboard, MIDI wind instrument, etc., you may know. instrument, etc., you may know.



USB host port on board

Shoulder straps:  
leather/Alcantara®

Bellows Clips: leather

The perfect combination of the familiar sounds and nuances of a traditional accordion combined with the advantages of a versatile digital instrument. Thanks to the new bellows pressure sensing circuitry, the FR-3x grants faster response and higher sensitivity and precision plus detection of bellows opening/closing. The USB host allows to customize orchestra and accordion sounds and to save/load user program data, while the bellows resistance regulator allows to control the handiness of the bellows. Lightweight and portable the FR-3x is perfect for students, accordion hobbyists, but also stage performers. Lightweight and compact, the "WHITE" model looks gorgeous, with a beautifully decorated bellows and genuine leather and Alcantara® straps.



# FR-1 JUNIOR CLASS



COLOURS



## Free Bass Mode and Bass to Treble Mode for even more flexibility

The FR-1 gives you much more freedom in your performance, thanks to the Free Bass mode, which is chiefly used by musicians who want to play melodies and form their own chords with their left-hand (Bass&Chord section). A free bass system (3 free bass registers and 3 orchestral free bass registers) uses a button board of single-note buttons with a range of three octaves or more. The FR-1 can be used like a "Bassoon accordion". In this mode the bass part is played with the right hand (the bass and chord buttons are inactive)

## Ideal for students...

Thanks to its small dimensions, the FR-1 is perfect for young beginners and music schools.

## ...and for performers

Compact, but with no compromise on sound quality, the FR-1 is ideal for stage performers and keyboardists. Thanks to its long battery life, the player can walk easily on stage without worrying about time. 8 x AA type 2000mAh Ni-MH Batteries will give you more than 5 hours of playing time, so time is certainly not a problem when you are playing the FR-1!

## Make your FR-1 unique!

The FR-1 comes with 5 variations of inlay sheets which enable owners to change the appearance of their FR-1 from time to time by changing these sheets. The player can also create his/her own custom designed inlay sheets using their PC and printer, or by using any kind of commercially designed paper.

## Advanced musical expression

With the FR-1 you can simulate up to 7 different Accordions each including: 8 Treble registers, 3 Bass registers, 3 Orchestra Bass registers, 3 Orchestra Chord registers, 3 Free Bass registers, 3 Orchestra Free bass registers, 4 Orchestra sounds. Also, with the innovative presence of 4 Organ presets (Harmonic Bar) with rotary effect, you can produce amazing organ sounds as well! You can now even play to your own beat, adding percussion sounds with the bass & chord buttons!



Inlay sheets



Good-quality inner earphones

## Small Size and Big Performance

Sound quality, small size, attractive price. The FR-1 button type sets a new standard in learning and live performance in only 5.5 kg. Moreover it is provided with a 62 button keyboard with 6 treble button modes (C-Griff Europe, C-Griff 2, B-Griff Bajan, B-Griff Fin, D-Griff 1, D-Griff 2) and 72 velocity-sensitive bass buttons (6 bass & chord modes to suit your playing style). You can easily change the note assignments to the button keys and select the preset that suits your playing style. You can even unscrew the black and white treble buttons and install them in the right places so that the button layout corresponds to the notes being played.

DIATONIC



## V-ACCORDION LINE-UP DIATONIC



Roland is pleased to introduce another milestone in digital musical instrument history – the FR-18 diatonic. It 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. 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.

## V-ACCORDION LINE-UP DIATONIC



Danilo Di Paolonicola

Danilo Di Paolonicola is one of the finest diatonic accordion players in the world. He has an incredible list of achievements and awards, including six world championship titles and the prestigious Città di Castelfidardo award – the most important in the jazz accordion world. His group, Ethnic Project, has also won the high-profile Stefano Bizzarri award. Danilo has been playing the accordion since he was six and now teaches the first experimental course in diatonic accordion at the Conservatory of L'Aquila, A. Casella. He is celebrated all over the world, playing concerts in Switzerland, Germany, France, Belgium, Croatia, Holland, Hungary, Austria, Bosnia-Herzegovina, Japan, California, Portugal. Danilo has been working with Roland ever since we started developing the FR-18 diatonic model V-Accordion and are proud to work with such a talented musician and an undisputed great. Danilo Di Paolonicola plays V-Accordion diatonic.

# FR-18 DIATONIC



## COLOURS



### 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. Three 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.

### 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 tuning without changing instrument.

It's now possible to immediately select different diatonic models, ranging from a two-row-plus-eight-basses model to a three-row-plus-18-basses model. The diatonic musician can create their own tablature by choosing the desired opening/closing notes for each button.



Diatonic sockets



Diatonic panel



USB memory



## V-ACCORDION SOUND EXPANSION FOR FR-7x AND FR-3x



VA-SE02

### ROLAND&DALLAPÉ TRADITION INSIDE INNOVATION

On 14 September 2010 Roland and Dallapé joined forces to give birth to a great project, that is bound to become another landmark in music history. Dallapé's historical models like the "1871", "Liturgica" and many others, that are displayed at the Accordion Museum in Stradella, can now be played again by all accordionists and lovers of such epoch-making instruments.

How can this be possible? A smart package with USB memory has been released by Roland containing the sounds of these historical acoustic accordions, that were obtained by means of a sophisticated and refined sampling process.

The Dallapé sound library is now available as a sound expansion package dedicated to all Roland V-Accordion models belonging to the "x" series.

## V-ACCORDION SOUND EXPANSION FOR FR-7x, FR-3x AND FR-18d



VA-SE01

### ALPINE SOUND EXPANSION

The Alpine expansion contains sounds of German folk acoustic accordion and typical Oberkrainer orchestral instruments.

These sounds are dedicated to Oberkrainer music, the typical music genre of some areas in the world like Slovenia, Austria, Germany.

This sound expansion contains special samples of characteristic instruments for this kind of music, like Bariton, Clarinet, Guitar, Trumpet and Bass Tuba. Dedicated Sets will help users to play Oberkrainer music without any pre-programming work.

FR-7x piano-type, FR-7x button-type SPECIFICATIONS	
Keyboard, Bass & Bellows	
Right hand	FR-7x piano-type: 41 piano-type keys, velocity-sensitive, with aftertouch FR-7x button-type: 92 buttons, velocity-sensitive, Master Bar with aftertouch.
Left hand	120 bass buttons, velocity-sensitive.
Treble Mode (only button type)	C Griff Europe, C Griff 2, B Griff Bajan, B Griff Fin, D Griff 1, D Griff 2.
Bass&Chord Mode	2 Bs Rows, 3 Bs Rows A-7th, 3 Bs Rows A-5dim, 3 Bs Rows B-7th, 3 Bs Rows B-5dim, 3 Bs Rows Belgium.
Free Bass Mode	Minor 3rd, Bajan, Fifth, North Europe, Finnish.
Bellows	Real pneumatic detection by a high-resolution pressure sensor, Bellow curve (Fixed low, Fixed Med, Fixed High, X-Light, Light, Standard, Heavy, X-Heavy), Bellows Resistance Regulator.
Sound source	
Tones (Accordion Set)	80 user-programmable accordion sets. Each accordion set includes: 14 Treble registers, 7 Bass/Chord registers, 7 Free Bass registers, 7 Orchestral Free Bass registers, 7 Orchestral Bass registers, 7 Orchestral Chord registers, 49 Orchestral sounds (26 Realtime), 128 Drum sounds.
Treble Reed Footages	7 Treble, 5 Bass, 3 Chord, 2 Free Bass.
Orchestral sounds	
26: Trumpet, Trombone, Alto Sax, Tenor Sax 2, Clarinet, Oboe, Harmonica, Muted Harm, Violin, Pizzicato, Flute 1, Pan Flute, Highland, Zampogna, Tpyl jazz, Blues, America, Popular, Jazz Scat 1, Strings, Mandolin, Vibe, Acoustic Guitar, Nylon & Steel, Acoustic Piano, El. Piano.	
Orchestral Bass sounds	
7: Acoustic, Bowed, Fingered, Picked, Fretless, Tuba, Tuba Mix.	
Orchestral Free Bass sounds	
7: Trombone, Clarinet, Oboe, Flute, Perc Organ, Ac Guitar, Ac Piano.	
Orchestral Chord sounds	
7: Trombone, Tenor Sax, Clarinet, Trem, Organ, Voice, AC Guitar, AC Piano.	
Organ sounds	
Organ Sounds: 32 presets x Treble, Chord and FreeBass sections, 16 presets x Bass section (up to 26 Virtual Tone Wheel combination customizable, can be controlled and shaped by bellows), 1 user Memory for each registers.	
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 waveform switching	By bellows acceleration, by note repetition speed.
Musette Tuning	
Micro-Tuning Presets	16: (Off, Dry, Classic, F-Folk, American L/H, North Europe, German L/H, D-Folk L/H, Alpine, Italian L/H, French, Scottish).
Effects	
Reverb/Chorus/Delay	8 types, 8 types, 10 types.
Rotary for orchestral organ sound	Slow/Fast with Vibrato, Chorus, Overdrive and VK-Rotary.
“Cassotto” and “Sordina” Simulation	Yes.

FR-7x piano-type, FR-7x button-type SPECIFICATIONS	
Operation mode	
Octave	-1/0/+1 Treble; -3/0/+3 Orchestra, Orchestra Bass, Orchestra Chord, Orchestra Free Bass.
Orchestra Link	Orchestra, Bass/Free Bass, Orchestra Bass, Orchestra Chord, Orchestra Free Bass.
Percussion Sounds	For Bass/Orch Bass (2 rows), Chord/Orchestra Chord (4 rows).
Orchestra mode	Solo, Dual, Low, High, Solo M, Dual M, Low M, High M, Low M Trb, High M Trb, Low Trb, High Trb.
Orchestra Layer	Layer Timbre (2 orchestra sounds).
Orchestra Chord Guitar Mode	Gtr Table1, Gtr Table2, Gtr Table3.
Midi functions	
Ext. Seq. Playback (MIDI In)	Treble, Bass & Chord, Orchestra, ALL (local Off function).
Send PC (MIDI OUT)	1-512 Program Change to control Patch, Sound of MIDI devices.
Start/Stop MIDI TX	Send Start/Stop by pushing Alpha dial.
Others	
Display	128 x 64 OLED type.
MP3 player	MP3/WAVE player from USB memory.
Wave recorder	On USB memory.
Wave Expansion	2 internal areas (8Mb each) to load new sounds.
Rated Power Output	2 x 25W RMS.
Speakers	10 cm x 2 speakers (using Neodymium Transducer Magnets), Tweeters x 2.
Onboard Connectors	Headphone jack (stereo), Output jack: L/Mono (Treble), R/Mono (Bass), Multi connector (to FBC-7), USB host.
Power supply	Rechargeable Ni-MH battery pack, 24V-4500mAh, External FBC-7 power supply/battery charger: AC117V, AC 230V, AC 240V(50/60hz), AC 220V (60Hz).
Supplied Accessories	FBC-7 (Power supply/Battery Charger), Owner's Manual, Straps, Accordion cloth, Bass Reference caps, Treble Reference caps (only FR-7x button type), Power cable, 19-pin Multicore cable, Rechargeable Ni-MH battery pack 24V-4500mAh.
External FBC-7 Specifications	5 Programmable Foot switches (Set Up/Down, Register Up/Down, Sustain), Multi connector (towards Accordion), Expression Pedal jack, MIDI connectors (In, Out, Thru), Output jacks (L/Mono, R), AC Inlet.
Optional Accessories	V-Accordion Gigbag, FBC-7 Gigbag, Headphones RH-200, Headphones RH-300, AMC-4 (Audio/Midi cable), AAP-1 (Music Rest and Throne).
Colour Variation	Black, Red, White.
Size and Weight	
Size	FR-7x piano-type: 528 (W) x 275(D) x 423 (H) mm; 20-13/16 (W) x 10-7/8 (D) x 16-11/16 (H) inches FR-7x button-type: 506 (W) x 270 (D) x 405 (H) mm; 19-15/16 (W) x 10-11/16 (D) x 16 (H) inches.
Weight	FR-7x piano-type: 11.5 kg; 25 lbs. 6 oz. FR-7x button-type: with battery, without straps: 11.7 kg; 25 lbs. 13 oz.

FR-3x piano-type/FR-3x button-type SPECIFICATIONS	
Keyboard, Bass & Bellows	
Right hand	FR-3x piano-type, FR-3x piano-type WHITE: 37 keys, velocity-sensitive FR-3x button-type, FR-3x button-type WHITE: 92-buttons, velocity-sensitive.
Left hand	120 velocity-sensitive bass buttons.
Bass&Chord Mode	2 Bs Rows, 3 Bs Rows A-7th, 3 Bs Rows A-5dim, 3 Bs Rows B-7th, 3 Bs Rows B-5dim, 3 Bs Rows Bx-7th.
Treble Modes (only button type)	C Griff Europe, C Griff 2, B Griff Bajan, B Griff Fin, D Griff 1, D Griff 2.
Free Bass Mode	Minor 3rd, Bajan, Fifth, North Europe, Finnish.
Bellows	New sensor for the detection of bellows pressure (high-resolution pressure sensor); Bellows Resistance Regulator (wheel with fine adjustment).
Sound source	
Tones (Accordion Set)	21 accordion Set + 4 User Set, each including: 14 Treble registers, 7 Bass registers, 7 Free Bass registers, 7 Orchestra Bass registers, 7 Orchestra Chord registers, 7 Orchestra Free Bass registers, 10 orchestral sounds, 10 organ sounds.
Reed Footages	4 Treble, 5 Bass, 3 Chord, 2 Free Bass.
Max polyphony	128 voices.
Orchestral sounds	
10: Trombone, Trumpet, T Sax, A Sax, Clarinet, Harmonica, Violin, Flute, El. Piano, Strings.	
Orchestral Bass sounds	
7: Acoustic, Bowed, Fingered, Fretless, Picked, Tuba, Tuba Mix.	
Orchestral Free Bass sounds	
7: Trombone, Clarinet, Oboe, Flute, Perc Organ, Ac Guitar, Ac Piano.	
Orchestral Chord sounds	
7: Trombone, Alto Sax, Clarinet, Jazz Organ, Jazz Doos, Ac. Guitar, Ac. Piano.	
Organ Sounds	
10: Perc Jazz, Jazz Ballad, Distort Organ, Full Organ, Overdr Organ, Popular Organ, Ligh Jazz, Bossa, Latin, Light Latin.	
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.
Musette Tuning	
Micro-Tuning Presets	16: Off, Dry, Classic, F-Folk, American L/H, North Europe, German L/H, D-Folk L/H, Alpine, Italian L/H, French, Scottish.
Effects	
Reverb/Chorus	8 types, 8 types.
Rotary for organ sounds	Slow/Fast.
“Cassotto” and “Sordina” Simulation	Yes.

FR-3x piano-type/FR-3x button-type SPECIFICATIONS	
Panel Controls	
Knobs	VOL, Treble/Bass BAL, Reverb, Chorus Panel Switches: 10 Treble registers + Set, 7 Bass registers, USER PROGRAM button, ORGAN/ORCHESTRA, SORDINA switch, POWER switch.
Operation Modes	
Orchestra/Organ Modes	Solo, Dual, High, Low.
Wave/MP3 player	Play/Pause, Stop/Reset.
Bass to Treble	On/Off.
Bass&Chord Drum Link	On/Off.
Octave	Down, 0, Up (for Treble and Orchestra) 10 User Program memories.
Others	
Display	LED, 3 x 7 segments.
Wave Expansion	2 internal areas (8Mb each) to load new sounds.
Rated Power Output	2 x 11W RMS.
Speakers	2 x 10cm speakers (Neodymium transducer magnets).
Power supply	Batteries (AA-type rechargeable Ni-MH x 10 (Battery operation: - 8-hour operation in speaker OFF mode / - 5-hour operation in speaker ON mode), Supplied PSB-7U adaptor: AC117V, 220V, 230V, 240V.
Onboard Connectors	OUTPUT sockets (L/Mono, R/Mono), PHONES socket USB memory port, MIDI OUT/IN socket (function adjustable via MIDI parameter), DC IN socket: for supplied Roland PSB-7U adaptor.
Supplied Accessories	External AC adapter, Owner's Manual, Reference caps for the bass buttons, Reference caps for the treble buttons (FR-3x button-type), Accordion cloth, Straps, Battery holder (pre-installed in compartment).
Optional Accessories	V-Accordion soft bag, Headphones RH-200, Headphones RH-300, AMC-3 (Audio/Midi cable), AAP-1 (Music Rest and Throne).
Colour variation	Black, White.
Size and Weight	
Size	FR-3x piano-type, FR-3x piano-type WHITE: 430 (H) x 481 (W) x 270 (D) mm; 16-15/16 (H) x 18-15/16 (W) x 10-11/16 (D) inches. FR-3x button-type, FR-3x button-type WHITE: 390 (H) x 470 (W) x 240 (D) mm; 15-3/8 (H) x 18-9/16 (W) x 9-1/2 (D) inches.
Weight	FR-3x piano-type, FR-3x piano-type WHITE: 8.3 kg; 18 lbs. 5 oz. FR-3x button-type, FR-3x button-type WHITE: 8.0 kg; 17 lbs. 11 oz.

FR-1 Piano & Button SPECIFICATIONS	
Keyboard, Bass & Bellows	
Right hand	FR-1 piano-type: 26 keys, velocity sensitive (starting at B key). FR-1 button-type: 62 buttons, velocity sensitive.
Left hand	FR-1 piano-type / button-type: 72 velocity-sensitive buttons.
Treble Mode (only FR-1 button)	C Griff Europe, C Griff 2, B Griff Bajan, B Griff Fin, D Griff 1, D Griff 2.
Bass&Chord Mode	2 Bs Rows, 3 Bs Rows A-7th, 3 Bs Rows A-5dim, 3 Bs Rows B-7th, 3 Bs Rows B-5dim, 3 Bs Rows Bx.
Free Bass Mode	Minor 3rd (37 notes Eb -Eb) Bajan (37 notes D- D) Fifth (36 notes C-C) N. Europe (37 notes D-C#) Finnish (37 notes D-D).
Bellows	Real pneumatic detection of bellows pressure (high-resolution pressure sensor), Bellows Resistance regulator.
Sound source	
Tones (Accordion Set)	7 accordion sets, each including: 8 Treble registers, 3 Bass registers, 3 Orchestra Bass registers, 3 Orchestra Chord registers, 3 Free Bass registers, 3 Orchestra Free Bass registers, 4 Orchestra sounds, 4 Organ sounds.
Reed Footages	4 Treble, 5 Bass, 3 Chord, 2 Free Bass.
Orchestral sounds	
4: Strings, Sax, Clarinet, Scat Voice..	
Organ sounds	
4: Full, Jazz, R&B, Perc.	
Orchestral Bass sounds	
5: Acoustic, Bowed, Tuba Mix.	
Orchestral Chord sounds	
5: St. Strings, Chorus Organ, Steel Guitar.	
Orchestral Free Bass sounds	
5: Strings, Clarinet, Choir.	
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.
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).
Effects	
Reverb/Chorus	8 types, 8 types.
Rotary	Slow/Fast (for organ sounds).
Panel Controls	
Knob Controls	Volume/Power; Registers: 4 x Treble, Orchestra, Organ, Set; 3x Bass, Free Bass, Orchestra Bass, Orchestra Chord, Orchestra Free Bass.
Buttons	Orchestra/Organ, Orch Bass, Orch Chord, Left Register; Drums/Default, Song/Demo, User Prog/Dec, Metronome/Inc.

FR-1 Piano & Button SPECIFICATIONS	
Operation mode	
User Program	4.
Octave	Down(-), 0 Up (+) (for Treble, Orchestra and Organ).
Bass to Treble	On/Off.
Song function	4 preset songs with selectable mute function for left or right-hand part.
Drums	4 drum/percussion sets.
Power supply	
Supplied External AC adaptor (100V~240V universal) or optional batteries.	
Power consumption	
375 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.	
Others	
Connectors	Headphones jack (Stereo).
Output Jack	L/Mono (Treble), R/Mono (Bass) MIDI connector OUT/IN (adjustable via Function parameter), DC IN socket.
Power Supply	External AC adaptor (100 ~ 240V, universal).
Metronome	Time Signature: 1/4, 2/4, 3/4, 4/4, 5/4, 6/4, 6/8, 9/8; Tempo: 20-250.
Level	Off, Low, Medium, High.
Size and Weight	
Size (mm)	FR-1(piano-type): 395 (H) x 365 (W) x 195 (D) mm; 15-9/16 (H) x 14-3/8 (W) x 7-11/16 (D) inches. FR-1(button-type): 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	FR-1(piano-type) without straps and optional batteries: 5.5 kg; 12 lbs. 3 oz. FR-1(button-type) without straps and optional batteries: 5.5 kg; 12 lbs. 3 oz.
Supplied Accessories	
1/4" phone (guitar) cable, Earphones (with 1/8" → 1/4" adaptor plug), External AC adaptor, Quick Start manual, CD-ROM with Owner's Manual, Reference caps for the treble buttons (button-type), Strip for securing the adapter, MIDI and/or audio cables, Hexagonal wrench, Straps, Replaceable "traforo" inlay sheets: 5.	
Optional Accessories	
Colour variation	White.
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.



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 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.
Sound source	
Max polyphony	128 voices.
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.
Orchestral sounds	
8 different for each Set.	
Organ sounds	
4: Blues, Distortion, Full Draw, 3rd Percussion (slow/fast Rotary settings for each).	
Orchestral Bass sounds	
3 different for each Set.	
Orchestral Chord sounds	
3 different for each Set.	
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.
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).
Effects	
Reverb/Chorus	8types, 8 types.
Rotary	Slow/Fast (for organ sounds).
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.

FR-18 Diatonic SPECIFICATIONS	
Operation mode	
User Program	4.
Octave	Down(-), 0 Up (+) (for Treble, Orchestra and Organ).
Orchestra/Organ Modes	Solo, Dual.
Chord mode:	Full or without the 3rd chord degree.
Metronome	On/Off; Time Signature: 1/4, 2/4, 3/4, 4/4, 5/4, 6/4, 6/8, 7/8, 9/8; Tempo: 20-250.
Drums	4 drum/percussion sets.
Power supply	
Supplied External AC adaptor PSB-IU (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.	
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-IU (100 ~ 240V, universal).
USB Memory	Port storage devices.
Wave Expansion	2 internal areas (8Mb each) to load new sounds.
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 1/8" → 1/4" adaptor plug), External PSB-IU AC adaptor, Owner's Manual, Strip for securing the adaptor; MIDI and/or audio cables, Hexagonal wrench, Straps, Replaceable "traforo" inlay sheets.	
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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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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