Display Type

Display
　　　320 x 240 pixels, color graphic LCD 2.4" (backlit)

Keyboard

Right Hand
　　　Piano Type: 41 keys piano type with velocity sensitive and aftertouch
　　　Button Type: 92 buttons with velocity sensitive. Aftertouch via Master Bar
Left hand
　　　120 bass buttons velocity sensitive. Standard
　　　Mode: Standard, Free Bass, Orch. Bass, Orch. Chord, Orch. Free Bass

Bellows

Type
　　　Advanced "Dynamic Bellows Behaviour" technology to manage the behavior of
　　　bellows. The Advanced "Dynamic Bellows Behaviour" technology consider the
　　　selected register and the number of played notes
Bellows Resistance
　　　Off, On, −63 to 0 to +64
Bellows Curve
　　　Fixed Low, Fixed Med, Fixed High, X-Light, Light, Standard, Heavy, X-Heavy

Sound Generator

Max. Polyphony
　　　128 voices
Tones (Accordion Set)
　　　100 Accordion Sets, each one including: 14 Right Hand Registers, 7 Bass/Chord
　　　registers, 7 Free Bass registers, 7 Orchestra Free Bass registers, 7 Orchestra
　　　Bass registers, 7 Orchestra Chord registers, 180 Orchestral sounds (28 real time
　　　+ others selectable by MENU), 18 Drum Sets
Reed Footages
　　　7 Treble, 5 Bass, 3 Chord, 2 Free Bass
Wave Expansion
　　　4 internal areas (8Mb each) to load new sounds

Orchestral Sounds

Right Hand Tones
　　　180: 28 real time (14x2) the others selectable by MENU
Left Hand Chord Tones
　　　180: 7 real time, the others selectable by MENU
Left Hand Bass Tones
　　　180: 7 real time, the others selectable by MENU
Left Hand Free Bass Tones
　　　180: 7 real time, the others selectable by MENU

Organ Sounds (Virtual Tone Wheel Technology)

Presets
　　　32 for Right Hand, Chord and Free Bass sections, 16 x Bass section
Harmonic Bar combinations
　　　Up to 28 customizable, can be controlled and shaped by bellows.
Vibrato/Chorus

V-1
V-2
V-3
C-1
C-2
C-3

Percussion
2nd/3rd, Soft, Slow

Rotary Sound
Slow/Fast, Brake, Level

Tone Wheel Type
50/60/70

Amplifier Type
TYPE 1
TYPE 2
TYPE 3
TYPE 4
TYPE 5

Drum Sounds

Drum Set
18

Drum Shift
−36 to 0 to +36

Bass&Chord with drum/percussion sounds
Programmable drum/percussion sounds for Bass/Orch Bass 2 rows,
Chord/Orchestra Chord 4 rows

APBM (Advanced 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

Switching Reed Sound Wave
By bellows acceleration. by note repetition speed

Bellows opening/closing sound change
By bellows opening/closing detection

Bellows Behavior
Dynamic Bellows Behavior technology for a perfect simulation of the bellows
behavior in an acoustic
accordion

Musette Tuning

Micro-Tuning Presets
16 Types: Off, Dry, Classic, F-Folk, American L/H, North Europe, German L/H, D-
Folk L/H, Alpine, Italian L/H, French, Scottish

Fine Tuning reed footages 8- / 8+
−100 to 0 to 100

Effects

Reverb/Chorus/Delay
8 types, 8 types, 10 types

MFX multi effects
    MFX x 4 (84 types) for:
    Accordion, Orchestra 1, Orchestra 2, Orch Chord/Orch Free Bass
Rotary for Organ sound
    Slow/Fast with Vibrato, Chorus, Overdrive and VK-Rotary
"Cassotto" simulation
    Yes

User Programs

User Program Lists
    Unlimited number (storage on USB memory)
Performance memories per List
    1400: 100 User Program Bank x 14 registers

Audio Player and Audio Recording

Media
    USB Flash memory
Audio Recorder Save format
    Audio files (WAVE 44.1 kHz, 16-bit linear)
    MIDI files (SMF)
Audio Loop Function
    REC (with Overdub function) and Play

Other

Accordion, Orchest1/Organ
    Zone, High, Low
Orchest2, Drum
    Zone, High, Low
Octave
    -1, 0, +1 for Treble, -3, 0, +3 for Orchest1, Orchest2
Orchestra Chord Guitar Mode
    Gtr Table1, Gtr Table2, Gtr Table3
Speakers Off
    Yes
Additional switches
    6 user assignable function switches on last row of bass buttons

Panel Controls

Encoder
    Data Edit with Enter
Knob controls
    Volume, Balance, Reverb Chorus, Delay, Effect (assignable)
Registers
    14 Right Hand registers
    7 Left Hand registers
Navigation switches
    Up, Down, Menu/Write, Exit/Jump
Chin switches
    3 programmable chin switches
Other switches
    Set Up, Set Down, Orch 1 On/Off, Orch 2 On/Off, Organ On/Off, Accordion
    On/Off, Orch Bass On/Off, Orch Chord/Free Bass On/Off, Free Bass On/Off,
    Bass&Chord On/Off, Drums On/Off, Bass to Treble On/Off, User Program On/Off,

Song List On/Off, Power On/Off, Charge On/Off, Loop/Wave/MP3 player: Loop, Reset/Stop, Play/Pause, Audio Rec

Connectors

Audio OUTPUT jacks (R, L/Mono)
1/4-inch phone type
PHONES jack
Stereo 1/4-inch phone type
MIDI connectors
IN, OUT
USB ports
USB COMPUTER connector (Type B, reception and transmission of MIDI data)
USB MEMORY (Type A, data storage devices)

General Specification

Power supply
AC adaptor
Current Draw
3,750 mA
Accessories
Owner's Manual
AC adaptor
Power cord (for connecting the AC adaptor)
Rechargeable Ni-MH battery pack (BP-24-45)
Reference caps for the bass buttons
Reference buttons for the treble keyboard (only for FR-8XD button type)
Straps
Accordion Cloth
Accordion soft bag