# **Korg KROSS Music Workstation**

Keyboard

KROSS-61

61 key

\*Velocity sensitive is supported, after touch is not supported

\*Standard C2 - C7 (transposable in the range [C1...C6]-[C3...C8])

KROSS-88

88-key: NH (Natural Weighted Hammer Action) keyboard

\*Velocity sensitive is supported, after touch is not supported

\*Standard A0 - C8 (transposable in the range [A-1...C7]-[A1...C9])

\*The NH keyboard reproduces the touch of an acoustic piano, with a heavier feel in the low register and a lighter feel in the upper register.

System

EDS-i（Enhanced Definition Synthesis - integrated）

Sounds

Maximum Polyphony

80 voices (80 Oscillators) / Single Mode

40 voices (40 Oscillators) / Double Mode

\*The maximum simultaneous voice polyphony will vary depending on oscillator settings such as stereo multisamples and velocity crossfading.

Preset PCM Memory

Approximately 112 MB (In case of 48 kHz, 16-bit Linear PCM converted）

421 multisamples (including 6 Stereo multi-samples)

890 drumsamples (including 49 Stereo drumsamples )

Program

Oscillator

OSC1 (Single)
OSC1 + 2 (Double): Stereo multisamples are supported, and four levels of velocity
switching/crossfading/layering are possible for each oscillator

Filters

Four types of filter routing (single, serial, parallel, 24 dB)

Two multi-mode filters per oscillator (low pass, high pass, band pass, band reject)

Modulation

For each oscillator: two envelope generators (Filter & Amp), Two LFOs, Two key tracking generators (Filter & Amp), Two AMS mixers, Pitch EG, Common LFO, Two common key tracking generators

Combination

The Number of Timbre

Max: 16 Timbres
Key zone and velocity zone settings can be used to switch sounds, and the Tone Adjust function allows
Program settings to be modified.

Master Keyboard Functionality

External MIDI device control

Drum Kit

Stereo and mono drum samples
4 velocity zones switch (crossfades and layers)

The number of Combination

User

640 Program (512 Preload)

The number of Program

384 Combination (256 Preload)

The number of Drum Kit

48 Drum Kit (32 Preload)

Preset

256 GM2 Program + 9 GM2 Drums Program

Favourite

User: 64 (16 favorite x 4 bank)

Effects

Insert Effects

5 Insert Effects (stereo in/out)

Master Effects

2 Master Effects (stereo in/out)

Effect Types

Total: 134 types
\*74 types for Insert Effect
\*101 types for Master Effect 1
\*120 types for Master Effect 2

Modulation

Dynamic Modulation

Effects Control Busses

Stereo side chain (Limiter, Gate, Vocoder, etc)

Polyphonic Arpeggiator

Program Mode

1 unit

Combination, Sequencer Mode

2 units

Number of pattern

1,028 User Arpeggio patterns (916 Preload)

Number of Arpeggio patterns

5 Preset Arpeggio patterns

1,028 User Arpeggio patterns (916 Preload)

1,028 User Arpeggio patterns (916 Preload)

Number of Tone

12 tones

Number of step

Max: 64 steps

Step Sequencer

Program Mode

1 unit

Combination Mode

1 unit

Sequencer Mode

1 unit

Number of Tone

12 tones

Number of step

Max: 64 steps

\*Step sequencer settings can be created independently for each program, combination, and song.

Drum Track

Preset

700 patterns (shared with sequencer patterns)

Trigger Mode/ Sync/ Zone settings

Sequencer

Tracks

16-track MIDI Sequencer

Number of Songs

Max; 128 Songs

Resolution

1/480

Tempo

40.00 - 300.00 (1/100 BPM resolution)

Counter

Measure / Beat / Tick

Number of tone

12 tones

Template Song

16 preset / 16 user template songs

Preset

700 Patterns (shared with Drum Track patterns)

Format

KORG (KROSS) format, SMF format 0 and 1

Audio Recorder

Recording format

PCM Audio format (48 kHz / 16‐bit)

Import

WAV (.wav): 44.1 kHz\* / 16‐bit, 48 kHz / 16‐bit, Stereo
\*Automatic conversion from 44.1 kHz to 48 kHz

Export

WAV (.wav): 48 kHz / 16‐bit

Continuity recording time

Max: 3 hours

Recording time

Depends on the SD card that is used; approximately 90 minutes per 1 GB

Number of Songs

Max: 200 Songs

Number of multi-track recordings

Depends on the amount of space remaining on the SD card

Counter

Hour/ Min/ Sec

Media

File, Utility, Information

Controllers

General Control

Pitch bend wheel, Modulation wheel, SW [1], SW [2], TEMPO knob, TAP button

Step Sequencer/Favorite

1-16 buttons, STEP SEQ button, SET UP button for Control, RUN button, FAVORITE button,

BANK button for Control, LED

A/B/C/D (It uses both as “STEP SEQ” and “FAVORITE”)

Drum track

DRUM TRACK button

Arpeggiator

ARP button

Effect On/Off

MASTER FX button

Audio Recorder

SETUP button, PLAY/PAUSE (> / II) button

User Interface

Display

240 x 64 pixel LCD w/backlight, with adjustable contrast (hold the EXIT button and turn the Value dial)

Category

[CATEGORY], [SELECT] dials

Mode

[COMBI], [PROG], [SEQ], [GLOBAL/MEDIA] buttons

VALUE controller

[VALUE] Dial, [Cursor (Left/Right/Up/Down)], [EXIT], [ENTER],[FUNCTION],[PAGE+],[PAGE-],[MENU] buttons

Sequencer

[PAUSE], [REW], [FF], [LOCATE], [REC], [START / STOP] buttons

TEMPO

[TEMPO] knob, [TAP] button

Split/Layer

[SPLIT], [LAYER] buttons

Others

[AUDIO IN] button, [VOLUME] knob

Control Input

Damper (Half Damper is supported), Assignable Switch, Assignable Pedal

Outputs

Audio Output (L/MONO, R)

Connector

6.3mm Phone jack (Unbalanced)

Output Impedance

1.1kΩ (L / Mono terminal: in case of Mono output, = 550Ω)

Maximum level

+10.0 dBu, Load Impedance: more than 10 kΩ.

[VOLUME] It is possible to control by knob.

Headphone Output

Connector

3.5mm Stereo mini phone jack

Output Impedance

33Ω

Maximum level

40 + 40 mW

[VOLUME] It is possible to control by knob.

Inputs

AUDIO INPUT (Line In)

Connector

3.5mm Stereo mini phone jack

Input Impedance

1.1 kΩ

Maximum level

-42 - 0 dBu

MIC IN

Connector

6.3mm Phone jack (Unbalanced)

Input Impedance

33 Ω

Maximum level

-48 - -6 dBu

Other Connectors

MIDI

IN, OUT

USB

Type B x 1 (USB-MIDI Interface)

SD Card Slot

1 slot, Max: 2 GB SD Memory Card is supported, Max: 32 GB SDHC Memory Card is supported, (SDXC Memory Cards are not supported)

Power Supply

Power Supply

AC Adaptor (DC9V), POWER button, AA alkaline battery x 6, or AA Ni-MH: Nickel metal hydride battery x 6

Battery Life

In case of AA alkaline battery x 6 = Approximately 4 hours\*
In case of AA Ni-MH: Nickel metal hydride battery (1900 mAh) x 6 = Approximately 5 hours\*
\*Varies according to the batteries used and the conditions of usage

Power Consumption

5 W

Others

Dimensions:
(W x D x H)

KROSS-61

37.09 x 11.06 x 3.58 inches / 942 x 281 x 91 mm

KROSS-88

57.01 x 15.08 x 5.32 inches / 1,448 x 383 x 135 mm

Weight

KROSS-61

9.48 lbs. / 4.3 kg

KROSS-88

27.34 lbs. / 12.4 kg

Accessories

AC Adapter, Quick Start Guide

Option

XVP-10 Expression/Volume pedal
EXP-2 Foot Controller
DS-1H Damper Pedal
PS-1, PS-3 Pedal Switch
SC-KROSS 61 Soft case