



**TRANPOSE ACTIVE LED**

This LED is ON when the keyboard of DK61 is transposed using the dedicated «TRANPOSE» function. See «SHIFT» button section.

**PROGRAM CHANGE SELECTION BUTTONS**

With these two buttons you can change the presets of VB3 if they are associated to program change numbers. PROG+ increases the numbers, PROG- decreases the numbers. Hold «SHIFT» and then press PROG+ to jump to PC 127. Hold «SHIFT» and press PROG- to jump to PC 0.

**POTENTIOMETERS**

They are assigned to the most important functions used in a performance:

- VOLUME - CC7.
- OVERDRIVE - CC76.
- REVERB - CC91

**ROTARY SPEAKER SPEED BUTTON**

Push this button to switch speeds between slow and fast. Hold to stop the rotation. It sends CC1.

**VIBRATO/CHORUS ON/OFF**

With this button you can activate/deactivate the chorus/vibrato effect. It sends out the CC31.

**VIBRATO/CHORUS TYPE SELECTION**

One large push button is cycling between the six different selections of vibrato and chorus. It sends CC73 with different values from 0 to 127 based on selection.

**DRAWBARS.**

Used to control the sound of the virtual tonewheel organ.

**DRAWBARS SELECTION BUTTON**

This button is used to select which manual the drawbars are controlling. It cycles from «Upper manual» to «Lower manual» and to «Pedals» on every push. When «PEDALS» is selected, only the first two drawbars are sending MIDI messages. The control change numbers are different for upper, lower and pedals and they are written under each drawbar. PLEASE NOTE: CHANGING THE MANUAL SELECTION IS NOT CHANGING THE MIDI TRANSMISSION CHANNEL BUT ONLY THE CONTROL CHANGE MESSAGES SET SENT BY THE DRAWBARS.

**PERCUSSION BUTTONS**

- ON/OFF - CC66.
- SOFT/NORMAL - CC70.
- FAST/SLOW - CC71.
- HARMONIC - CC72.



**SHIFT AND PANIC! BUTTON**

This is a button with special functions: as soon as it is depressed, the «ALL NOTES OFF» MIDI message is sent. Hold it down in combination with some other buttons and keys of DK61 to perform specific operations. These are highlighted in the panel.

**SHIFT in combination with...**

- PROG+ To immediately jump to PC 127.
- PROG- To immediately jump to PC 0.
- Keys from C2 to Eb3 to select the global MIDI channel.
- Keys from F5 to G6 to select the transpose amount. Key C6 will turn the transposition OFF.
- Keys A6 and Bb6 to select between HMS-20-BK or CFS-12 connected to the rear HM-FS plug.
- Keys B6 and C7 to select if you want the keyboard of DK61 to send MIDI NOTE messages with or without velocity.

**KEYBOARD**

DK61 is equipped with a 61-key high quality keyboard with waterfall keys specially designed by CRUMAR in collaboration with PULSE to offer a nice playing experience. When the keyboard is set to send MIDI NOTE ON messages without velocity, it triggers using the high contact for fast action. Together with the «SHIFT» button, it's also used to modify special functions. The keyboard of DK61 behaves like the upper manual of a tonewheel organ and its MIDI channel is the same of all other controls.



## GETTING STARTED

- 1) If you have any accessories, connect them before powering on the instrument.
- 2) Apply power to the instrument: you can do this in two different ways:
  - USB port connected to the device where the software VB3 is installed with the provided USB Cable. The device provides power to the instrument and allows USB/MIDI stream. CRUMAR DK61 is a USB «Class Compliant» device.
  - USB port connected to a 5V power supply/charger. A common wall-wart USB mobile charger is perfect to supply power to CRUMAR DK61. Simply connect it using the provided USB cable and DK61 is ready!In this case you need to plug your MIDI devices using only the MIDI out port of the instrument. Please note: wall-wart power supply is not included.  
**PLEASE NOTE: DO NOT USE «FAST CHARGER» DEVICES. THEY CAN DAMAGE YOUR INSTRUMENT!**
- 3) Configure the optional accessories with the «SHIFT» button if this is required.
- 4) Open the VB3 software and select as MIDI input the device called «CRUMAR DK61».
- 5) Start Playing. The default settings and control change numbers of DK61 are perfectly compatible with the default MIDI controls of VB3.



### HALFMOON OR FOOTSWITCH CONNECTOR

TRS jack input. Plug here the optional accessories used to control the rotary simulation. Select the correct accessory using the «SHIFT» function in the front panel of the instrument. You will find holes to fix your HMS-20-BK in the front left part of the instrument. DK61 is also compatible with EXP-20-MS switchpedal from Crumar. This pedal handles swell and the rotary simulation using the two integrated switches. Plug the cable labeled «ROTARY» here and the cable labeled «SWELL» in the swell plug. It sends out CC1.

**PLEASE ONLY USE GENUINE CRUMAR ACCESSORIES:**

HALFMOON: HMS-20-BK. DUAL RAIL FOOTSWITCH: CFS-12. SWITCHPEDAL: EXP-20-MS.

### MIDI OUT

Standard MIDI cable plug. Use this connector together with a standard MIDI cable to connect DK61 to a device capable of receiving MIDI. MIDI cable is not included. This port sends the same MIDI messages of the MIDI IN/OUT USB port and they can be used together.



MIDI OUT



HM-FS

SWELL

SUSTAIN

### SUSTAIN PEDAL INPUT

TS jack input. Plug here the optional sustain pedal. Both normally open and normally closed are compatible: plug it before turning on DK61 and it will be auto-configured. It sends out CC64. It is not compatible with continuous sustain pedals. Please consider our CRUMAR CSP-40.

### MIDI IN/OUT USB

Device type B USB port used to connect DK61 to your device running VB3 software for MIDI input and output connectivity. If you are using the standard MIDI OUT connector, use this connector with the provided USB cable and a phone charger to power on your DK61.

### EXPRESSION PEDAL INPUT

TRS Jack input - signal on ring, 10/20k linear potentiometer. Please note that using incompatible pedals may cause malfunctions or the instrument to reboot especially when powered by a computer. It sends out CC11.

**PLEASE ONLY USE GENUINE CRUMAR ACCESSORIES:**  
SWELL PEDAL: EXP-10. SWITCHPEDAL: EXP-20-MS.

**CRUMAR DK61 IS A MIDI CONTROLLER DESIGNED FOR FULL COMPATIBILITY WITH VB3 SOFTWARE.**

**YOU CAN FREELY USE IT TO CONTROL OTHER SOFTWARES OR HARDWARE BUT THE CONTROL CHANGE MESSAGES ASSIGNED TO EVERY CONTROL (KNOBS AND BUTTONS) ARE FIXED AND CAN'T BE CHANGED. CRUMAR DK61 IS NOT PROGRAMMABLE. ALMOST ALL MODERN VST MUSIC SOFTWARES OFFER THE POSSIBILITY TO ASSIGN EVERY CONTROL TO A SPECIFIC CONTROL CHANGE VIA MIDI LEARN OR MANUALLY. IF YOU WANT TO MATCH YOUR DK61 TO YOUR FAVOURITE SOFTWARE, YOU HAVE TO MODIFY THE SETTINGS OF YOUR MUSICAL SOFTWARE OR YOUR MIDI CAPABLE RECEIVING DEVICE.**

CRUMAR DK61 is a MIDI controller engineered in Italy by VMConnection - [www.crumar.it](http://www.crumar.it)  
Via Lucio Vero 2, 31056 Roncade (TV) - ITALY

VB3-II and VB3m are software programs made in Italy by Genuine Soundware - [www.genuinesoundware.com](http://www.genuinesoundware.com)

CRUMAR DK61 is a professional MIDI controller that must be used together with a computer, tablet or other compatible devices using the USB or MIDI connection. It's not a toy. Do not open the device, do not expose to moisture or water, please use only the provided cable, do not connect it to damaged devices or connectors. Please keep the instrument and the packaging bag out from the reach of small children. This instrument can only be used in domestic environments. It may cause interferences if not correctly installed. This product complies with Directive 2011/65/EU on the restriction of hazardous substances. WEEE notice: the product must not be disposed of with household waste, it must be taken to the appropriate collection point.