

> studiologic®

studiologic SL88
Grand Hammer
Action Keyboard
Controller



studiologic SL88 Grand Hammer Action Keyboard Controller User Manual

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studiologic SL88 Grand Hammer Action Keyboard Controller



Important Safety Instructions

- Please read the entire manual. It contains all the information you need to use this unit.
- Please follow the instructions in this manual. The warranty will be void if unauthorized work is carried out on the instrument. Only accessories specified by the manufacturer should be used with this unit. Use the unit only as specified in this manual.

DANGER!

- Risk of electric shock. Do not open the chassis. There are no user serviceable parts inside.
- The unit should only be serviced by qualified service staff.

Humidity

- To reduce the risk of fire or electric shock, do not expose the unit to rain or moisture. Never place containers with liquid on the unit. Do not use the unit near water, swimming pool, bath-tub or wet basement. If the unit is moved from a cold place to a warm room, condensation may occur inside. To avoid damage please allow the unit to reach room temperature before switching on.

Installation

Always use a stable rack or surface to place the keyboard on. Please be aware of its size and weight.

Cleaning / Maintenance

- Never use any abrasive detergent, which may damage the surface. We recommend a slightly moist micro-fibre cloth.

Packaging

Please keep all packaging and use it to protect the instrument when transporting or if servicing is required.

Mains

Before connecting the unit to the main power supply, please check if the power supply is suitable for the instrument. The unit can be powered with 100 – 240VAC, using the included power supply/adaptor.

Your new SL

Thank you very much for choosing the SL. You have obtained a state-of-the-art professional instrument made by the renowned manufacturer Studiologic. The SL is easy to operate, thanks to the large colour display, the main Encoder with navigation controls plus built in click and it offers a perfect keyboard touch. We recommend that you

read the entire manual carefully to take full advantage of all the functions of your SL. This manual is intended to be an easy, fast, Quick Guide that should help the user to understand the instrument and all mind related controls, rather than a general description of the complete structure and detailed editing, also made more flexible and user's friendly by the computer Editor that will be downloadable from our official sites.

Let us start with an overview of the functions of the SL.

- **Keyboard**

The SL Controllers offer the latest innovative technology by Fatar: the sophisticated Hammer Action Keyboard with 3 contacts per key and Aftertouch. Therefore the SL Controllers are very portable, yet it offers the realistic grand piano touch for which Fatar is famous.

- **Zones**

The keyboard can be divided into 4 programmable zones. You can define each zone's keyboard range and select at which velocity level it will send its MIDI data, together with a wide range of settings and controls. Each zone can be assigned to a different port and the new programmable Sticks can control different MIDI parameters for each zone.

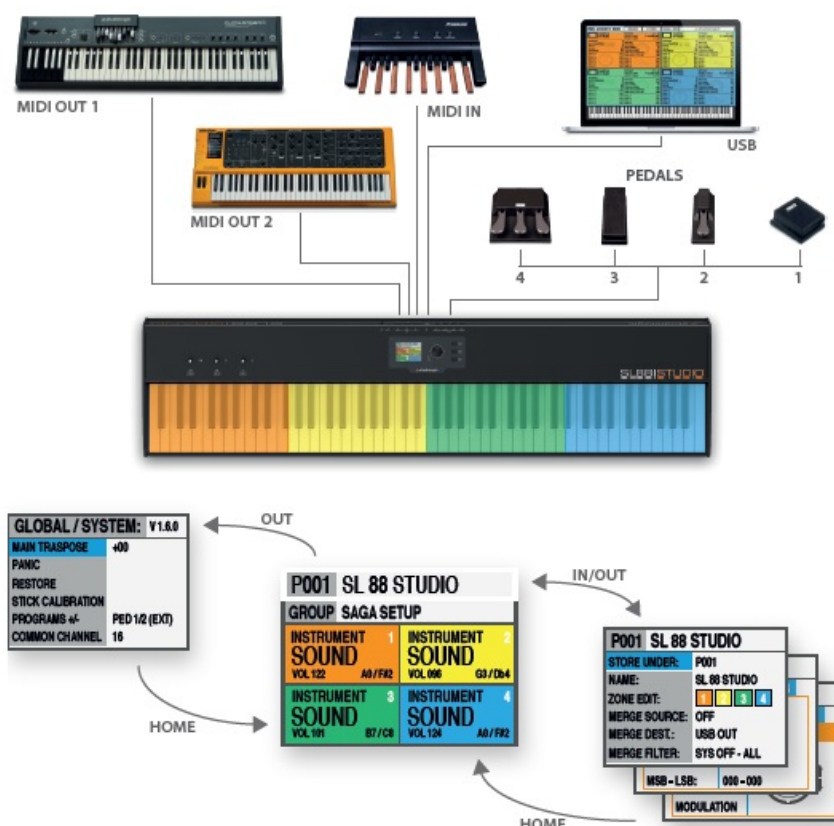
- **Delivery includes**

SL88 Grand / SL88 Studio / SL73 Studio

AC power adaptor

VFP1-10 / PS100 pedal

Operation Manual (CD Rom)

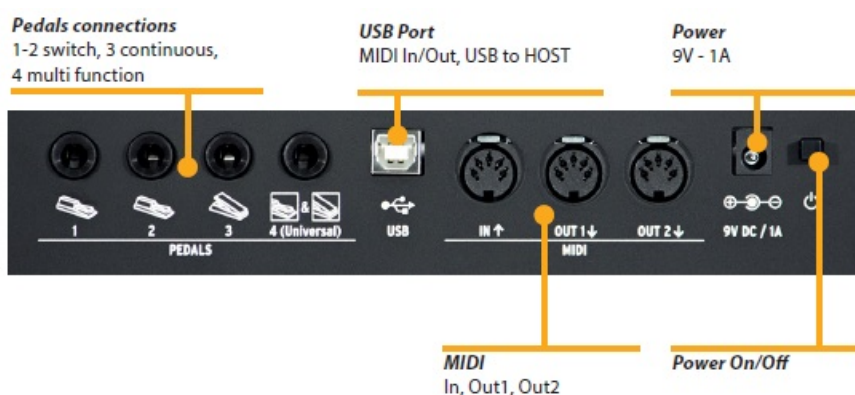




YOUR PROJECTS

| Library | Groups |
|-------------|-----------|
| PROGRAM 001 | GROUP 01 |
| PROGRAM 002 | GROUP 02 |
| PROGRAM 003 | GROUP ... |
| PROGRAM ... | GROUP 12 |
| PROGRAM xxx | |

Power – Inputs & Connections



All connections are placed in the back of the instrument, for an easier access and protection:

Power connection

Insert the adapter plug into the back socket of the instrument and turn the instrument on, by moving the related switch to the 1 position (1=ON, 0= OFF).

CAUTION:

Be sure that the adapter is the original one (included in the box) or a suitable/compatible one with the correct voltage and power (9V – 1A, positive pin + at centre).

Inputs

Assignable pedals connections:

- 2 switches
- 1 continuous
- 1 multi functions

You can connect compatible Switch pedals (for the related functions) to Pedal 1 and 2, a dedicated Volume/Expression Pedal to the Pedal 3 input and one of the compatible pedals in the special multi plug 4.

Midi IN/OUT

The MIDI connections allow to control any external Midi Device and/or connect the SL to other external MIDI devices, for all related data transmission (notes, program changes etc.)

USB

The USB (Universal Serial Buss) also allows the connection to external devices (i.e. Computers) to updates the firmware or establish a MIDI connection (IN/OUT).

When the SL is connected to a computer via USB, you can also use the SL Editor to set all SL parameters in a very fast and direct way, including controls not available in the internal SL editing structure (i.e.: the Keyboard Balance function, that allows to change the velocity sensitivity of each individual key and balance black and white keys, with a single control).

Control Panel



Programmable Sticks



The new SL Control Panel is a concentrate of technology and user's friendly layout; it consists of:

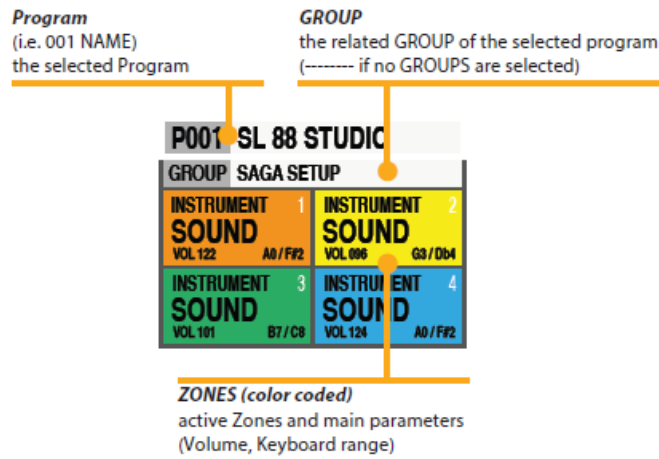
- 1 Large colour display (TFT – LCD 320 x 240);
- 1 Rotating encoder with 1 built in click (enter) and 4 positional switches (up/down/left/right);
- 3 Main buttons: Home (back to main view) – In & Out buttons (to navigate within all pages);
- 3 Programmable Sticks.

All Edit Pages can be selected in the same way (up/down with the Encoder's positional switches, IN or OUT) you can use one hand to select all available pages and parameters, with instant access to all features; ones the selected function is reached, you can change its value by rotating the En-coder (to the left = decrease / to the right = increase).

Setup parameters

HOME Display

The SL main page (HOME) is a very clear and complete picture of the main functions, as it follows:



By rotating the encoder, when a ZONE is selected, you can immediately control the Volume (000-127).

| | |
|---|---|
| P001 SL 88 STUDIO | |
| GROUP SAGA SETUP | |
| INSTRUMENT SOUND VOL 122 A0 / F#2 | INSTRUMENT SOUND VOL 096 G3 / Db4 |
| INSTRUMENT SOUND VOL 101 B7 / C8 | INSTRUMENT SOUND VOL 124 A0 / F#2 |

Program Selection & Edit

- To select a Program, you can either rotate the Encoder (direct selection) or Click the Encoder, rotate to select and Click to confirm.
- When a Program is selected (by moving the cursor to the top area of the display) pressing IN you enter in Program Edit.

| | |
|--------------------------|---------------|
| P001 SL 88 STUDIO | |
| STORE UNDER: | P001 |
| NAME: | SL 88 STUDIO |
| ZONE EDIT: | 1 2 3 4 |
| MERGE SOURCE: | OFF |
| MERGE DEST.: | USB OUT |
| MERGE FILTER: | SYS OFF - ALL |

The following parameters are available:

STORE UNDER

To select the position where you want to store the current Program.

P001 SL 88 STUDIO

STORE UNDER:

P001

PLEASE PUSH TO CONFIRM

NAME

To name the current Program, by using the Encoder positional commands (left/right – up/down) and clicking when the desired letter/number is selected. You can either move the cursor to the letters/numbers area and select them by clicking the encoder, or rotate the encoder to select the letters and numbers.

P001 SL 88 STUDIO

PROGRAM NAME:

SL 88 STUDIO

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| A | B | C | D | E | F | G | H | I | J |
| K | L | M | N | O | P | Q | R | S | T |
| U | V | W | X | Y | Z | - | : | _ | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 |

ZONE EDIT

(refer to the related chapter at page 11).

P001 SL 88 STUDIO

SELECT ZONE: 1 2 3 4

ENABLE: ON

MIDI PORT: USB

CHANNEL: 001

PRG: 001

MSB - LSB: 000 - 000

MERGE SOURCE

To select the source (MIDI IN or USB) to be merged to the DESTINATION.

P001 SL 88 STUDIO

MERGE SOURCE:

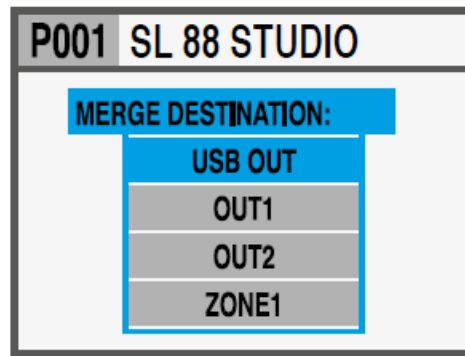
OFF

MIDI IN

USB IN

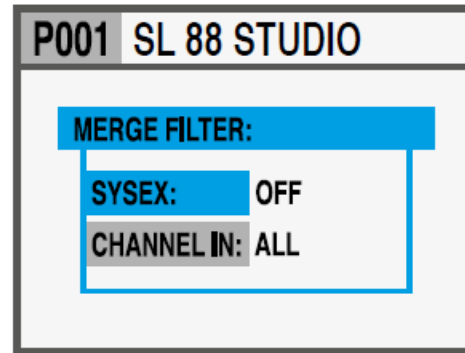
MERGE DESTINATION

To select the destination of all merged MIDI data.



MERGE FILTER

To filter (cut out) some MIDI message when merging SOURCE to DESTINATION.

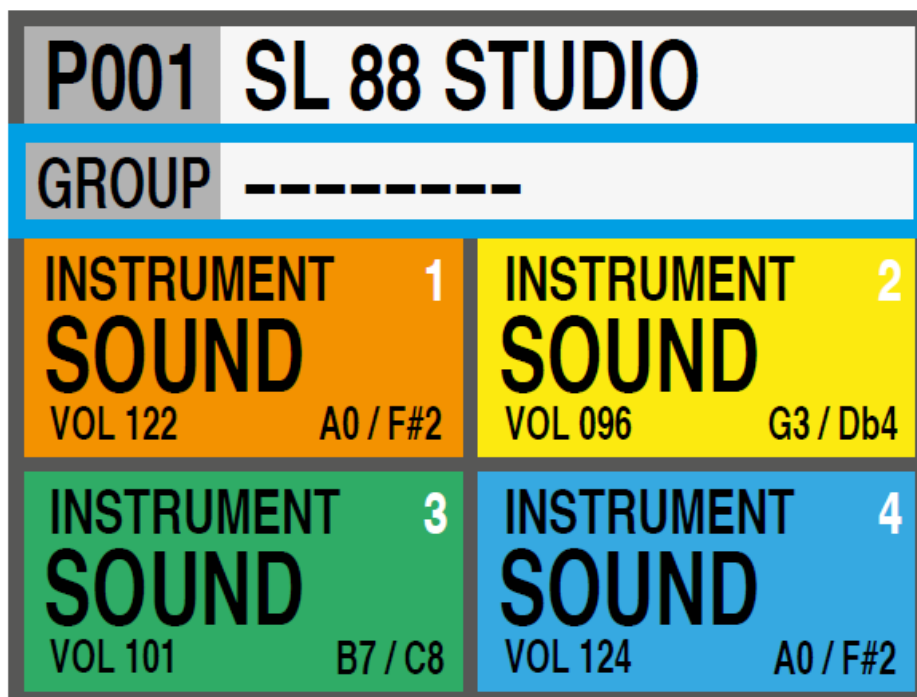


Programmable GROUPS

The SL offers a special function to organize your Programs in Groups, in order to list in the same Group various Programs, corresponding to a specific task, song or project. The same Program can be associated to more Groups, allowing to optimize the internal memory and avoid duplicating Programs, if they can be used for more projects. To select or program a Group, within the 12 available ones, press the main Encoder down or up until the Group section is selected, then scroll the various Groups with the Encoder; when a Group is selected, only the Programs of the selected Group will be shown, in the sequence stored in the Group.

NOTE

It is always possible to skip the Groups selection, by setting the Groups to the empty position, shown on the display as GROUP ———



How to create a new Group or edit existing one

- Press the IN button when the Group section is selected and then choose a Group within the list, moving the Encoder down or up.
- Press IN to enter in the GROUP EDIT page.
- Now you can edit the Group name and the associated Programs.
- To edit the associated Programs, select PROGRAM LIST and press IN.
- To add or change a Program to the Group, scroll them with the Encoder and click on it to open the popup menu that allows to MOVE UP, MOVE DOWN or DELETE a Program within the 30 assignable ones.
-

GROUP LIST:

BEAT - LESS

ROAD - STONES

HAPPY

BIRTHDAY

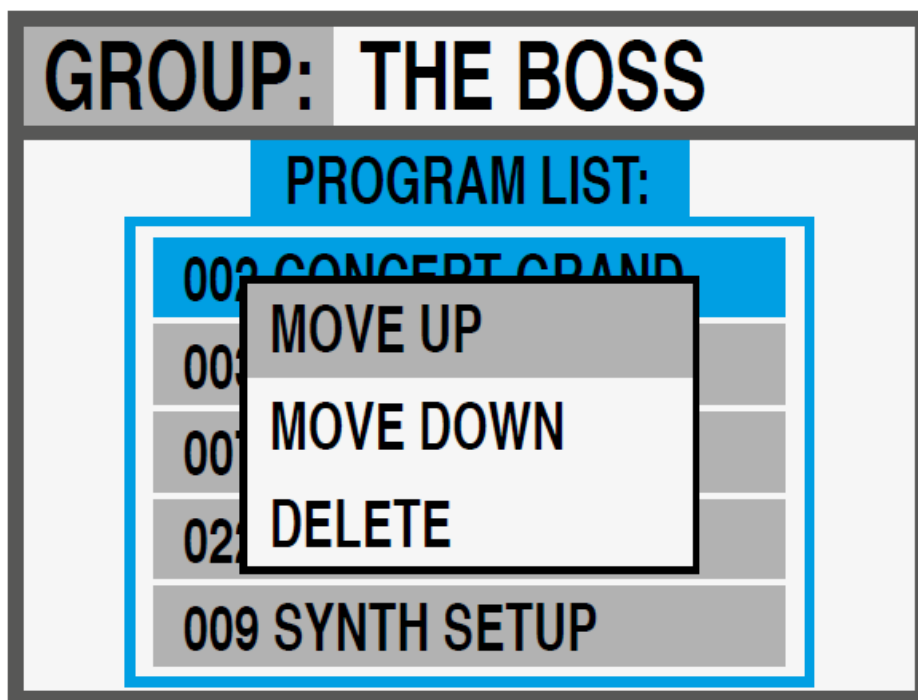
THE BOSS

GROUP: THE BOSS

NAME:

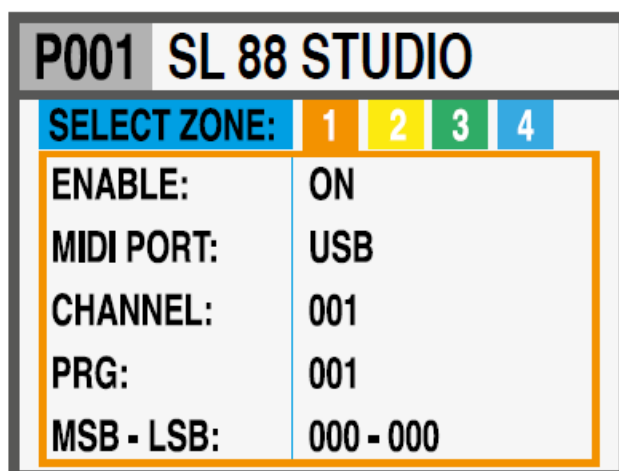
THE BOSS

PROGRAM LIST

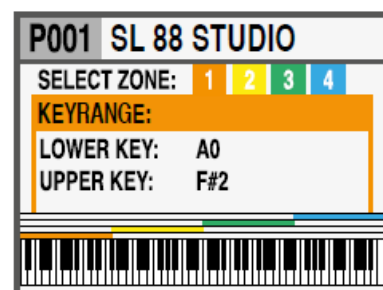


Zone Edit

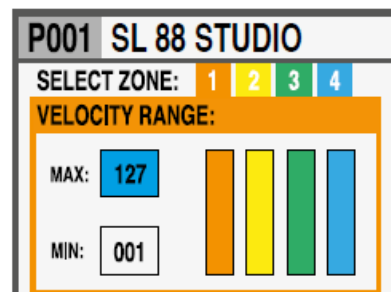
To enter in Zone Edit, press the IN button when one of the Zones is selected; you can still select another Zone by using the left/right Encoder's controls. From the list of parameters, you can either press IN, rotate the Encoder or move the cursor to the right to enable the parameter's modification.



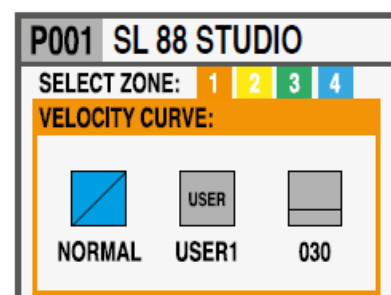
| | |
|-----------------------------|--|
| ENABLE | to enable or disable the selected zone |
| MIDI PORT | to select the related OUT port within the available ones (USB, MIDI 1, MIDI 2) |
| CHANNEL | 001 - 016 |
| PROGRAM | 001 - 128 |
| MSB - LSB | 000 - 127 (for both) |
| VOLUME | 000 - 127 |
| KEY RANGE ¹ | A0 - C8 |
| VELOCITY RANGE ² | 000 - 127 |
| VELOCITY CURVE ³ | SOFT/NORMAL/HARD, USER(1-6), FIXED (VALUE 001-127) |
| AFTERTOUCH | OFF/ON |
| TRANPOSE ⁴ | -12 / +12 SEMITONES |
| OCTAVE | -3 / +3 |
| PEDAL 1 | (selectable functions) |
| PEDAL 2 | (selectable functions) |
| PEDAL 3 | (selectable functions) |
| PEDAL 4* | (special functions) |
| STICK 1 X | (selectable functions) |
| STICK 1 Y | (selectable functions) |
| STICK 2 X | (selectable functions) |
| STICK 2 Y | (selectable functions) |
| STICK 3 X | (selectable functions) |
| STICK 3 Y | (selectable functions) |
| INSTRUMENT NAME | |
| SOUND NAME | |



¹ KEY RANGE

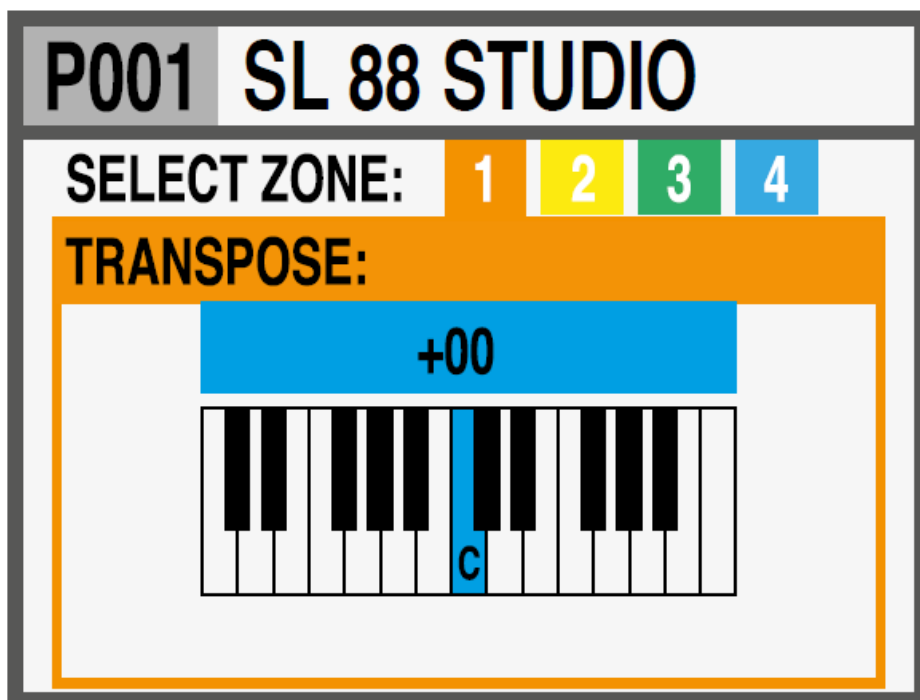


² VELOCITY RANGE



³ VELOCITY CURVE

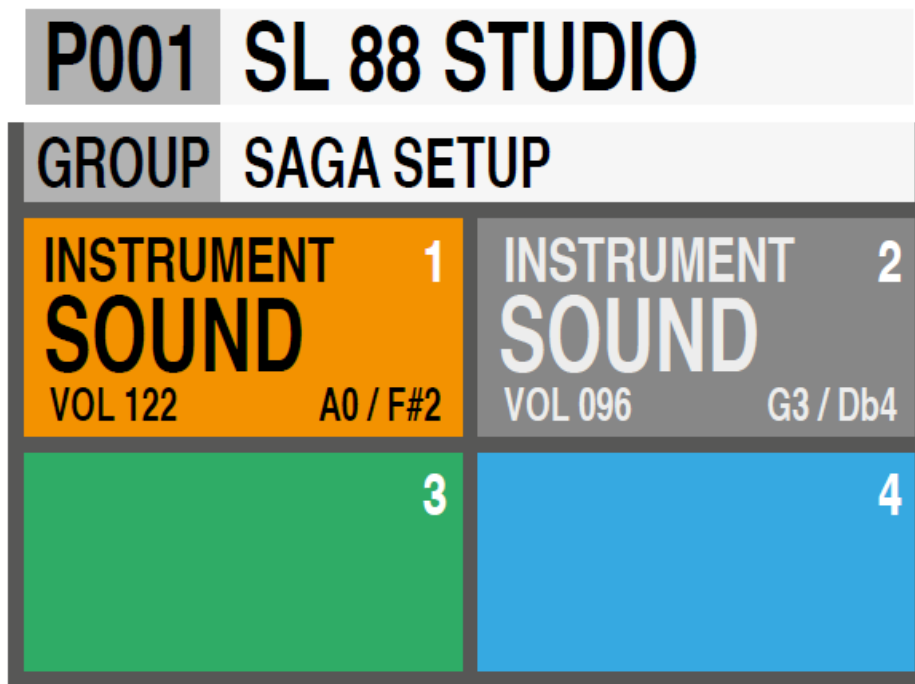
*Pedal 4 can be programmed to control all available parameters (switch and continuous) but it can also be set to be connected with special multi-pedals (SLP3-D, NTP, etc.) allowing to have up to three pedals in one plug. A typical application is a triple piano pedal, where two pedals can control the Soft and Sostenuto functions, while the third pedal can control a half-pedaling Damper function.



4 TRANSPOSE

Zone Edit

- If you assign one of the special multi-pedals to a Zone, the other Zones can only be set to OFF or to the same kind of pedal (all other functions are shown in grey).
- A Zone can have 3 states: ON/OFF/Standby.
- To enable or disable a Zone press IN and set it ON or OFF; if a Zone is OFF the display will only show a colored background. Clicking the Encoder, you can set the Zone in Standby and the display will show it in grey. (The picture shows Zone 1 ON, Zone 2 Standby, Zones 3 and 4 OFF).
- Please note that you can also set all parameters of a disabled Zone (in the Program) in order to be ready to enable it at any time, with all pre-programmed parameters for that particular Program.



Programmable Sticks

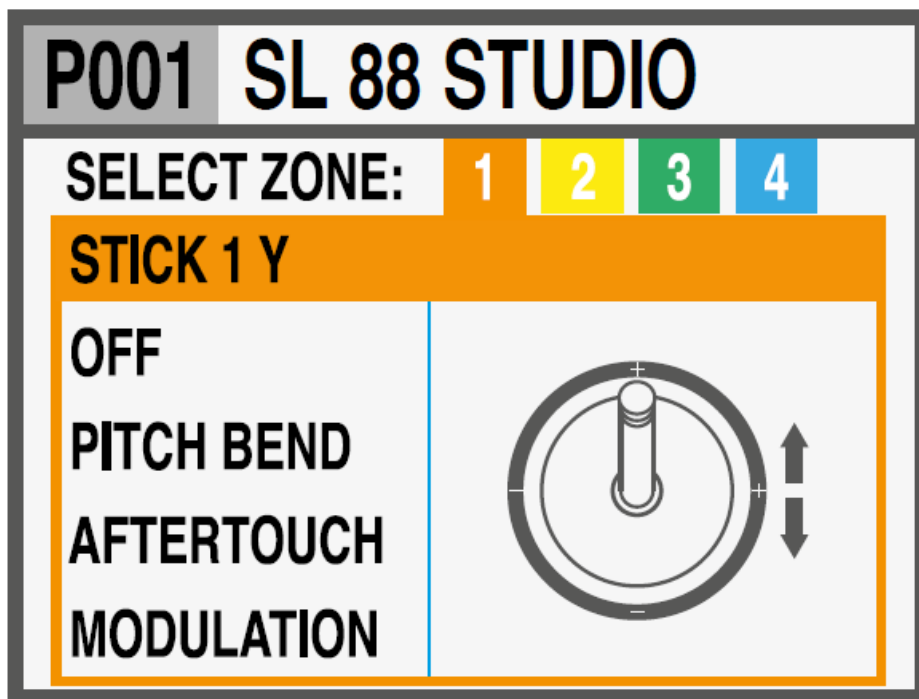
The 3 Sticks on the left side of the instruments are programmable real-time controls:

- Stick 1 has springs in both the vertical and horizontal axes and it goes back to zero automatically; a typical setting for such kind of control is for Pitch Bending functions;
- Stick 2 has a spring only on the horizontal axis and it goes back to center on that side; a typical setting for such kind of control is for Modulation or Filter cutoff when controlling any kind of virtual Synthesizer;
- Stick 3 is totally free and it keeps the position where you move it, on both X and Y axes, allowing to control any parameter that needs to stay stable where it is set.

How to program the sticks

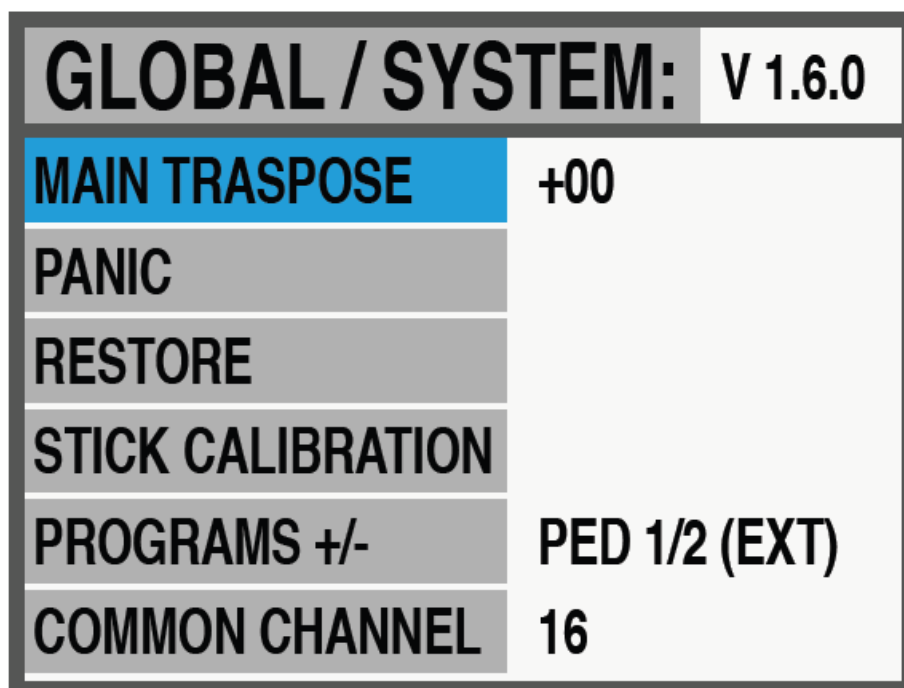
Once you have selected a Zone, by clicking the IN button you enter in EDIT MODE and you can scroll with the Encoder's vertical switches thru all the programming pages until you find the page related to the Sticks programming.

Select one of the sticks, press IN again and enter in the programming page, where all available Stick's functions are listed, for both the horizontal and vertical axes.



GLOBAL / SYSTEM

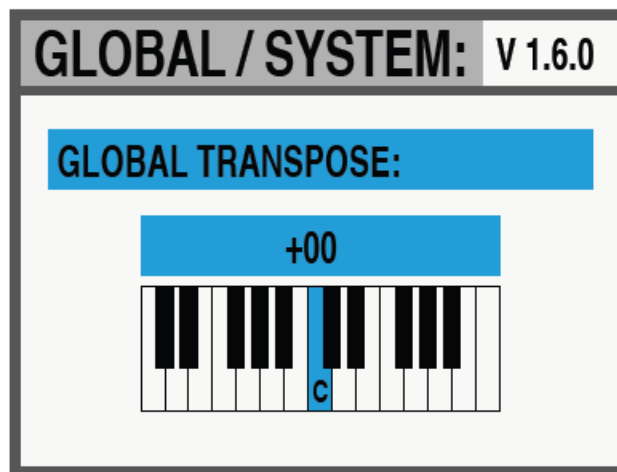
In the HOME page, press OUT button to enter in the GLOBAL/SYSTEM page. (NOTE: to go back to the main display press HOME).



The following controls are available:

MAIN TRASPOSE

Selecting this function and rotating the ENCODER, all enabled ZONES can be transposed in a range or -12 and +12 semi-tones, with a single control.



PANIC

In case of pending notes or controls (coming from the external devices, connected to the instrument) pressing this command the "ALL NOTES OFF" message is sent to all devices, to restore the normal function;

RESTORE

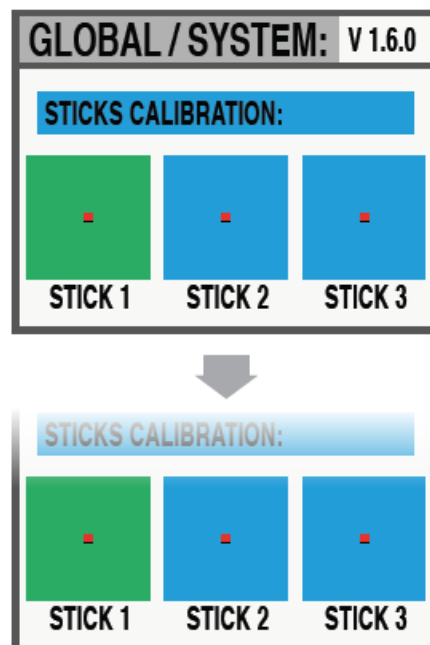
This function restores all initial settings of the instrument; please note that all your programming will be restored and consequently this function should be activated only in case of real need, saving all your programs before restoring the unit.

STICKS CALIBRATION

In the first page, the 3 sticks icons are blue and you can verify the actual range by moving them all the way along the four sides, reaching to the edges of the related area.

To calibrate a stick, press it (click): the area will become yellow; now move the stick along the four sides, reaching accurately the four edges of the control area, repeating the movement at least 2-3 times

Once the point 2 is made, click again on the stick: the area will become green, to confirm that the calibration is done.



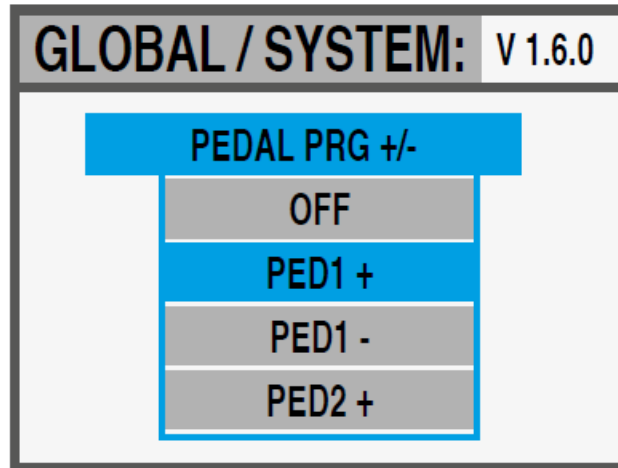
PROGRAM +/-

This function allows to increment or decrement the current SL Program, using single-switch pedals connected to the Ped 1 or Ped 2 sockets; the available settings are:

- OFF: function disabled
- PED1 + pressing a pedal connected to PED1 will increment the current Program a step ahead (i.e from

Program 001 to 002 and so on);

- PED1 – pressing a pedal connected to PED1 will decrement the current Program a step below (i.e from Program 002 to 001 and so on);
- PED2 + pressing a pedal connected to PED2 will increment the current Program a step ahead (i.e from Program 001 to 002 and so on);
- PED2 – pressing a pedal connected to PED2 will decrement the current Program a step below (i.e from Program 002 to 001 and so on);
- PED1/2 +/- two pedals connected to PED1 and PED2 will allow to increment or decrement the current Program;



- PED1/2 EXT with this setting the SL will send and receive the Data Increment and Data Decrement controls via USB in, allowing to control the main Programs from computer software applications enabled to make this function.

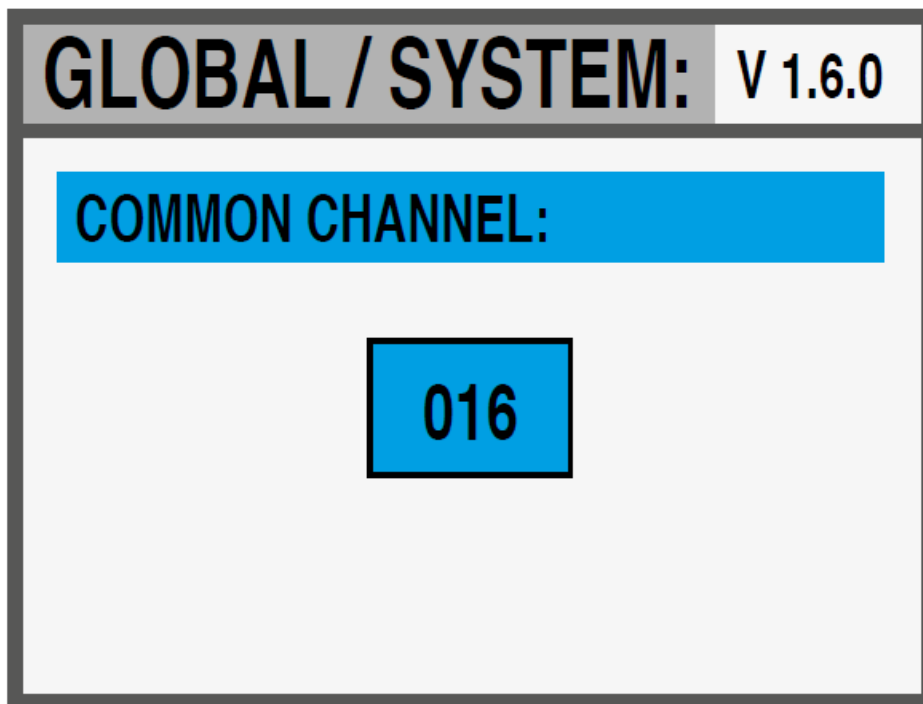
NOTE: when one of the PED 1/2 Global functions are activated, the related pedal setting of each Program are overwritten by the Program +/- function and the ZONE programming will be shown in a grey color; setting to OFF the related Global pedal functions will re-enable the original Zone setting of the pedals.

COMMON CHANNEL

As COMMON is intended a MIDI channel that allows to send or receive generic controls from and to the SL, not directly related to a single Zone; the function that needs a Common Channel (set to one of the available 16 MIDI channels) is the Program +/-.

The COMMON Channel selection includes the these values:

- OFF: no Common channel messages enabled;
- 01/16: selected Common Channel (the most used setting is the MIDI CH 16);



Firmware management

Firmware upgrade

- The SL firmware does not normally need any update, unless a new official Firmware Version will be made available by Stu-diologic. The procedure to update the firmware (intended as the main features, parameters and/or improvements of the operating system) and the dedicated software to update your SL will be published on our Sites with all related descriptions and instructions.
- To enter in Upgrade Mode, turn the instrument ON keeping the IN button pressed.

SL Editor

- The SL Editor is a dedicated Software Application, that will be downloadable from our Official Sites; it will allow to edit all available SL parameters with a very intuitive and interactive user's interface. When the SL is connected to the computer (via USB) and the SL Editor is open, the communication is set in real-time and all editings are transmitted to the SL directly, with no need of any offline action.
- The images below are examples of the many available features.



MAIN PAGE



ORGANIZE



KEY BALANCE



SL CURVES

Declarations

Warranty

Every product from Studiologic by Fatar has been carefully manufactured, calibrated and tested, and carries a warranty. Damage caused by incorrect transport, mounting or handling is not covered by this warranty. Compensation amounting to more than the price of the device is excluded. For any further informations please refer exclusively to your dealer and/or local distributor. This is based on the general terms and condition of the local distributor / FATAR srl, Italy.



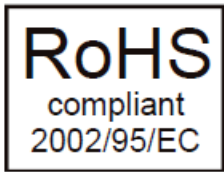
CE-Conformity

FATAR srl Zona Ind.le Squartabue 62019 Recanati MC Italy

declares that this product complies with the European Directives:

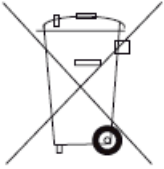
- 2004/108/EC EMC Directive
- DIN EN 55013 EMC radio disturbance of sound, TV and associated equipment
- DIN EN 55020 EMC immunity of sound, TV and associated equipment
- Recanati, 20. 05. 2015 Marco Ragni, Chief Executive Officer

This declaration becomes invalid if the device is modified without approval.



RoHS-Conformity

This product is manufactured according to the 2002/95/EC directive.



Disposal / WEEE

The purpose of this EC Directive 2003/108/EC is, as a first priority, the prevention of waste electrical and electronic equipment (WEEE), and in addition, the reuse, recycling and other forms of recovery of such wastes so as to reduce the disposal of waste. Please help to keep our environment clean.

- **State of the art**

To ensure maximum quality all Studiologic by Fatar devices are always engineered to be state-of-the-art products, therefore updates, modifications, and improvements are made without prior notice. Technical specification and product appearance may vary from this manual.

- **Trademarks**

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- **Copyright**

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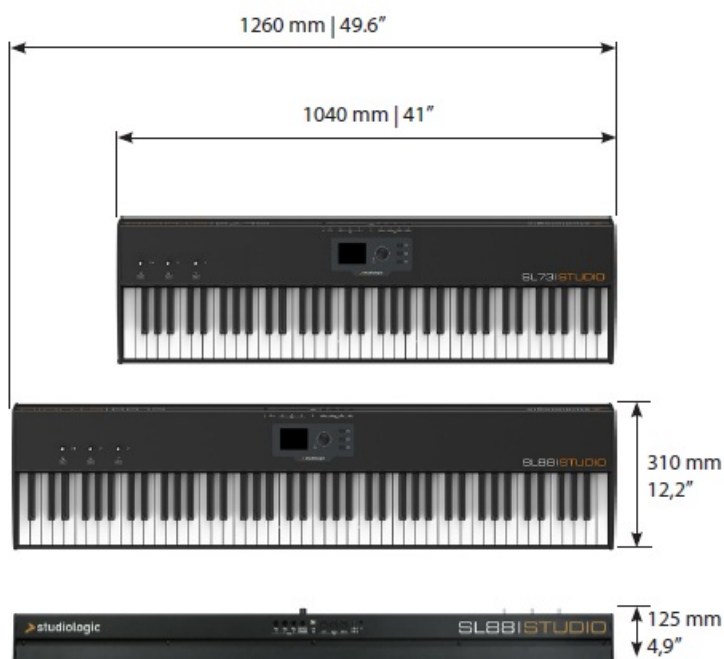
Appendix

- SL88 GRAND
- SL88 STUDIO
- SL73 STUDIO

Specifications

| Studiologic SL | | |
|----------------|------------------|--|
| Keyboard | Number of Keys | 88 -73 |
| | Type | Hammer action with Aftertouch Grand: TP/40 WO OD Studio:TP/100LR |
| | Velocity Curves | 3 default velocity curves + fixed curve with progra mmable value6 editable user's velocity curves |
| Display | Type | Color graphic LCD – TFT |
| | Resolution | 320 x 240 |
| User Interface | Rotating Encoder | 4 navigation controls + 1 function switch |
| | Function buttons | IN/OUT/HOME |
| Inputs | 4 pedals | 2 switch + 1 continuous +1 multi |
| Connections | MIDI | In – Out1 – Out 2 |
| | USB | Midi In/Out, USB to HOST |
| Power Supply | DC IN | 9V – 1A |
| | Adapter | Input:100-240VOutput: 9V-1A |
| Weight | | SL88 Grand; 20,8 Kg / 45,8 lbs SL88 Studio: 13,7 Kg 30,2 lbs SL73 Studio: 11,5Kg 25,3 lbs |

Dimensions



Design and Specifications are subject to change without notice.

FAQ

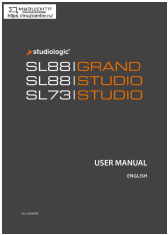
- **Q: Can I use any AC power adaptor with the SL Controllers?**

A: No, it is recommended to use the specified AC power adaptor (VFP1-10) to ensure compatibility and safe operation of the unit.

- **Q: How many zones can I divide the keyboard into?**

A: The keyboard can be divided into 4 programmable zones, allowing for customizable settings and controls for each zone.

Documents / Resources

| | |
|---|--|
|  | <p>studiologic SL88 Grand Hammer Action Keyboard Controller [pdf] User Manual 5SL88 Grand Hammer Action Keyboard Controller, 5SL88 Grand, Hammer Action Keyboard Controller, Action Keyboard Controller, Keyboard Controller</p> |
|---|--|

References

- [Σ1 Профессиональная акустика — Активные акустические системы.](#)
- [User Manual](#)

Manuals+, Privacy Policy

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