

# ULTRA SHIFTER/HARMONIST US600

Ultimate Pitch Shifter / Harmonist Effects Pedal

Thank you for showing your confidence in us by purchasing the BEHRINGER ULTRA SHIFTER/HARMONIST US600. This high-quality effects pedal shifts single notes and chords and even creates intelligent harmonies to your notes — at the touch of a footswitch. Take off with incredible Tremolo Arm/Flutter effects to bend single notes or simulate the movement of the tremolo bar.

## 1. Controls

- 1 The **D TIME/SPEED** control has 2 different functions depending on the effect mode selected. For **TREM BAR** and **FLUTTER** mode it adjusts the speed of the pitch change. When using **DETUNE** mode it controls the delay time of the effect. In **PITCH SHIFTER** and **HARMONIST** mode this control is not active.
- 2 The **BALANCE** control adjusts the balance between the direct signal and the effect signal in **PITCH SHIFTER**, **DETUNE** and **HARMONIST** mode. At minimum position only the direct signal is provided while at maximum position only the effect signal will be heard. In **TREM BAR** and **FLUTTER** modes this control adjusts the output level of the effects pedal.
- 3 The **HR KEY** control is used in **HARMONIST** mode to determine the key you are playing in. This assures that the right notes fitting with the harmonic preconditions are generated by the effect. You can select out of 10 different keys:

- |                       |                        |                        |
|-----------------------|------------------------|------------------------|
| 1. C major (A minor)  | 5. E major (C# minor)  | 9. Ab major (Fm minor) |
| 2. G major (E minor)  | 6. B major (G# minor)  | 10. Eb major (C minor) |
| 3. D major (B minor)  | 7. Gb major (D# minor) | 11. Bb major (G minor) |
| 4. A major (F# minor) | 8. Db major (Bb minor) | 12. F major (D minor)  |

- 4 The **PITCH** control adjusts the amount of pitch shifting. In **HARMONIST** mode it selects the interval added to the direct signal.
- 5 Use the **MODE** control to select one of 5 different effect styles.

**PITCH SHIFTER:** Adds a detuned signal to the original signal with a maximum of 2 octaves above or below. Use the **PITCH** control to select the degree of pitch shift (-24, -12, -7, -5, -2, -1, +3, +4, +5, +7, +12, +24).

**HARMONIST:** Adds harmonies to the original signal with a maximum of 2 octaves above or below. Use the **PITCH** control to select the desired interval (-2 Oct, -1 Oct, -6th, -5th, -4th, -3rd, +3rd, +4th, +5th, +6th, +1 Oct, +2 Oct). The intervals are dynamic and adapt to the key determined with the **HR KEY** control.

**DETUNE:** Adds a subtle detuned signal to the original signal with a maximum of 30 cents above or below (-30 C, -25 C, -20 C, -15 C, -10 C, -5 C, +5 C, +10 C, +15 C, +20 C, +25, +30 C). Use the **PITCH** control to adjust the amount of detuning and the **D TIME/SPEED** control to determine the delay time.

**TREM BAR:** Detunes the input signal with a maximum of 2 octaves above or below similar to the effect created with a guitar vibrato arm. Use the **PITCH** control to adjust the amount of detuning (-12, -5, -4, -3, -2, -1, +1, +2, +3, +4, +5, +12) and the **D TIME/SPEED** control to determine the time used to reach the defined pitch value. The effect is only active when you keep the footswitch depressed.

**FLUTTER:** Detunes the input signal periodically with a maximum of 1 octave above or below similar to the effect created with a fast moving guitar vibrato arm. Use the **PITCH** control to adjust the amount of detuning (-12, -5, -4, -3, -2, -1, +1, +2, +3, +4, +5, +12) and the **D TIME/SPEED** control to determine the time used to reach the defined pitch value. The effect is only active when you keep the footswitch depressed.

- 6 The **ON/BATT** LED illuminates when the effect is activated.
- 7 Use the footswitch to activate/deactivate the effect.
- 8 Use this ¼" TS IN connector to plug in the instrument cable.



- 9 The two ¼" TS OUT A and OUT B connectors send the signal to your amp. If both outputs are used they will output different signals in the modes Pitch Shifter, Harmonist and Detune. OUT A will have the pitch shifted signal while OUT B will have the input signal. The volume of both outputs will be effected by the BALANCE control. In Trem Bar and Flutter mode both outputs will have the pitch shifted signal.
- 10 Use the ¼" TRS EXP/CTL connector to connect an expression pedal. Set the pedal to the lowest position when connecting it to the unit. Then push it to the forward position and choose the desired pitch value with the PITCH control. Now you can control the pitch value of the effect within the range defined by the PITCH control (low position = no pitch shift, forward position = maximum pitch shift).

Use the DC IN connection at the front of the unit to plug in a 9 V power supply (not included).

The BATTERY COMPARTMENT is located underneath the pedal cover. To install or replace the 9 V battery (not included), press the hinges with a ballpoint pen and remove the pedal cover. Be careful not to scratch the unit.

- ◆ The US600 has no on/off switch. As soon as you insert the plug into the in connector, the US600 begins running. When not using the US600, remove the plug from the in connector. This extends the life of the battery.

The SERIAL NUMBER is located at the underside.

- ◆ In rare cases interferences of the normal function may appear by external influence (e.g. electrostatic discharge), as for example sound disturbances or malfunctions. If this occurs, please turn down the volume on subsequent amplifiers and disconnect the input connector briefly to restart the application.


## 2. Safety Instructions

Do not use near water, or install near heat sources. Use only authorized attachments/accessories. Do not service product yourself. Contact our qualified servicing personnel for servicing or repairs, especially when power supply cord or plug is damaged.

## 3. Warranty

Please register your new BEHRINGER equipment right after your purchase by visiting <http://behringer.com> and read the terms and conditions of our warranty carefully.

## 4. Specifications

| In A             |  |
|------------------|--|
| Connector        | ¼" TS  |
| Impedance        | 500 kΩ   |
| Out A            |  |
| Connector        | ¼" TS  |
| Impedance        | 1 kΩ   |
| Out B            |  |
| Connector        | ¼" TS  |
| Impedance        | 1 kΩ   |
| Power Supply     |  |
|                  | 9 V  , 100 mA regulated |
| BEHRINGER PSU-SB |  |
| U.S.A./Canada    | 120 V~, 60 Hz  |
| China            | 220 V~, 50 Hz  |

| Korea                  | 220 V~, 60 Hz  |
|------------------------|--|
| Europe/U.K./Australia  | 230 V~, 50 Hz  |
| Japan                  | 100 V~, 50/60 Hz   |
| Power connector        | 2 mm DC jack, negative center                              |
| Battery                | 9 V type 6LR61   |
| Power consumption      | 30 mA  |
| Physical/Weight        |  |
| Dimensions (H x W x D) | approx. 2 1/8 x 2 3/4 x 4 4/8"<br>approx. 54 x 70 x 123 mm |
| Weight                 | approx. 0.73 lbs / 0.33 kg                                 |

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# FEDERAL COMMUNICATIONS COMMISSION COMPLIANCE INFORMATION



**BEHRINGER**

**ULTRA SHIFTER/HARMONIST  
US600**

Responsible Party Name: **MUSIC Group Services US Inc.**

Address: **18912 North Creek Parkway,  
Suite 200 Bothell, WA 98011,  
USA**

Phone Number: **Phone: +1 425 672 0816**

## **ULTRA SHIFTER/HARMONIST US600**

complies with the FCC rules as mentioned in the following paragraph:

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

This device complies with Part 15 of the FCC rules. Operation is subject to the following two conditions:

- (1) this device may not cause harmful interference, and
- (2) this device must accept any interference received, including interference that may cause undesired operation.

### **Important information:**

Changes or modifications to the equipment not expressly approved by MUSIC Group can void the user's authority to use the equipment.

