

Xpression fx Black Magic Motion—TRS

Description

Xpression fx Black Magic Motion – TRS, from Oz Inventions, is a wireless motion controlled effects controller. It is compatible with most effects units and keyboards with a foot controller port.

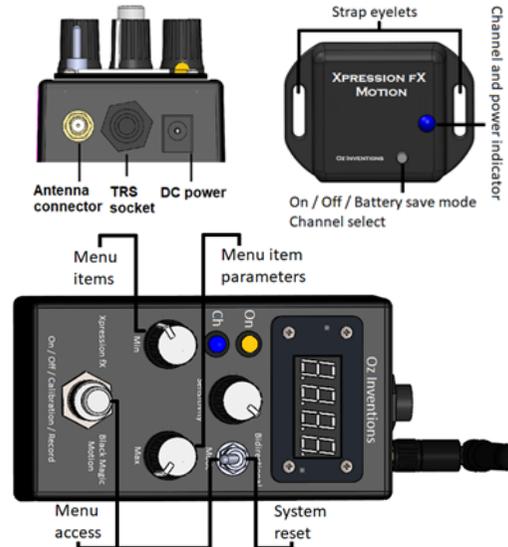
Important message

1. The position of the sensitivity, minimum depth and maximum depth controls are of extreme importance in obtaining the correct amount of control. Having these controls in the incorrect position may mean no control, minimal control or erratic control. If in doubt set minimum depth to minimum, maximum depth to maximum and set the sensitivities as shown overleaf.
2. Polarity and resistance settings will also have a significant effect. Polarity and resistance can be set in the system menu.

TRS polarity & 12Kohm resistance commonly function but are not universal. The device is widely compatible and will work with the following products and others.

Manufacturer	Polarity	Resistance (Kohm)
Boss®	TRS	12
Digitech®	RTS	12
Eleven rack®	TRS	12
Line 6®	TS	12
M-Audio®	TRS	12
Mooger Fooger®	TRS or CV	50
Pigtronix®	TRS	12
Strymon®	TRS	25
TC Electronic®	TRS	25
TC Helicon®	TRS	50
Yamaha®	RTS	50
Zoom®	RTS	50

1.



- Bidirectional switch – Bidirectional sweep
- Minimum depth – sets how low the control output can fall
- Maximum depth – sets how high the control output can rise

2.

Menu access

System/ADSR menu entry and exit

1. Press and hold on/off/calibrate/recording switch
2. Hold sensor select switch forward and release

Step size menu entry and exit

1. Hold sensor select switch forward
2. Press and hold on/off/calibrate/recording switch and release

Preset menu entry and exit

1. Rotate maximum depth control fully anti-clockwise (0)
2. Rotate minimum depth control fully clockwise (127)

Navigating a menu

The minimum and maximum depth controls function as menu controls when inside a menu. They will retain their depth values when in a menu, but will revert to the knobs current position when a menu is exited. And so they would be returned to the position they were in before the menu was entered.

Use minimum depth to move through menu items and maximum depth to change menu item parameters

Saving menu parameters

Quit/save is the last menu item in all menus. Select 'Save' in menu, and exit menu to save. This saves all menu settings and calibration settings for the current preset.

Default settings

The default settings can be restored by resetting the system. (Hold sensor select switch forward whilst powering on)

3.

Operation

1. Insert a CR2032 battery into battery holder of the sensor-transmitter, **UNDER** the double hooks. With '+' visible. Turn the sensor on by holding the ON/OFF selector for 2 seconds. Holding longer will change transmission channels. Hold 1 sec when ON to change battery save mode. Hold 2 sec for OFF. Battery save mode is signified by a dim illumination compared to no battery save mode. In battery save mode the sensor will switch off after 5 minutes of no motion.



2. Mount the sensor using hook & loop attachments
3. Attach the antenna to the controller-receiver and reset it if needed (Hold the sensor select switch forward whilst applying power and then release the switch)
4. Access the system menu see 'Menu access'
5. Set polarity and resistance to match the device being controlled.
6. Set the channel to match the sensor transmission channel
7. Select 'Save' from the menu and exit
8. Remove power from the controller-receiver
9. Connect TRS socket on the controller to the TRS socket on the device to be controlled.
10. Connect the controller and the device to be controlled to power.
11. Set min depth to zero (fully anti-clockwise)
12. Set max depth to 127 (fully clockwise)
13. Select 'G' (Guitar-hand mode) with the sensor select switch
14. Turn control on by pressing the on/off/calibration/record switch. (the ON indicator will illuminate)
15. Rotate the sensor-transmitter and the output will increase (0 – 127) over a 90 degree angle. Calibrate if required to reduce the angle

7.

Calibrating the control angle

Tilt, quad-tilt, rotation and guitar-hand sensor modes require calibration for best operation.

1. Hold the sensor at the required starting position
2. Press and hold the on/off/calibration/record button on the controller-receiver. The ON indicator will start to flash, signalling that the start of the angle has been set and that a control output of zero will be at that point.
3. Continue to hold the button and move the sensor-transmitter to the finishing position
4. Release the button. The angle end has now been set and control output will be at maximum at that point.

No other sensor modes require calibration but they may require sensitivity adjustment. See sensitivity settings.

Recording a motion pattern

Calibrate the sensor mode if required

1. Enter the system menu and select 'Rec-' (1st menu item)
2. Scroll further through the menu and select a maximum recording time (1 equates to 10 seconds, 2 to 20 etc)
3. Exit the menu, and a flashing dot will appear under the last digit on the display to signify that record mode has been entered
4. Hold the sensor at your chosen start position, this does not need to be the calibrated starting position
5. Press and hold the On/Off/Calibration/Record button, until the indicator light starts to flash
6. Release the On/Off/Calibration/Record button. The indicator light will cease flashing and the system is armed for recording, but will not start recording yet.
7. Move the sensor along the direction or angle as required for the current sensor mode
8. When the control output moves past the trigger level as set in the system menu, and defaulting at '10', the system will begin to record motion data and the indicator light will flash continuously.
9. Move the sensor as you wish
10. Recording will cease when the On/Off/Calibration/Record button is pressed, or when the recording time, as set in the menu, has elapsed, whichever is sooner.

8.

Playing back a recording

1. Select 'P' with the sensor select switch and the recording will play back continuously, modulating the output
2. Trim the recording in 'Playback' mode if required with the sensitivity control. Work from fully anti-clockwise (0).

Automatic ADSR mode

1. Start the controller-receiver with the default settings (see system reset).
2. Select 'A' using the sensor select switch and the ADSR envelop will immediately start repeating.
3. Press the on/off/calibration switch so that the ON LED lights
4. Choose a parameter to be controlled on an effects unit and the modulation will be heard. The control waveform will be using the default ADSR parameters in the system menu.
5. Access the menu (on/off/calibration switch + sensor select switch)
6. Rotate the minimum depth control to find "Ar" (Attack rate). This sets how quickly the envelop rises. Set this to 10 using the max depth control.
7. Rotate the min depth control further until "dr" (decay rate) is found. This sets how quickly the envelope will fall to the sustain level. Set this to 10 using the max depth control.
8. Continue to rotate the minimum depth control and set SL (sustain level), St (sustain time) and rr (release rate) to zero.
9. Rotate the min depth control to find the Sc (scale setting). This adjusts the overall time for the envelope. Set this at 5.
10. Play a note on the instrument connected to the effects unit and the modulation will be heard.
11. Adjust the scale setting for the overall length required.

9.

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