

sysfs-driver-hid-roccat-kone..txt

What: /sys/bus/usb/devices/<busnum>-<devnum>:<config num>.<interface num>/actual\_dpi

Date: March 2010

Contact: Stefan Achatz <erazor\_de@users.sourceforge.net>

Description: It is possible to switch the dpi setting of the mouse with the press of a button.

When read, this file returns the raw number of the actual dpi setting reported by the mouse. This number has to be further processed to receive the real dpi value.

VALUE	DPI
1	800
2	1200
3	1600
4	2000
5	2400
6	3200

This file is readonly.

What: /sys/bus/usb/devices/<busnum>-<devnum>:<config num>.<interface num>/actual\_profile

Date: March 2010

Contact: Stefan Achatz <erazor\_de@users.sourceforge.net>

Description: When read, this file returns the number of the actual profile. This file is readonly.

What: /sys/bus/usb/devices/<busnum>-<devnum>:<config num>.<interface num>/firmware\_version

Date: March 2010

Contact: Stefan Achatz <erazor\_de@users.sourceforge.net>

Description: When read, this file returns the raw integer version number of the

firmware reported by the mouse. Using the integer value eases further usage in other programs. To receive the real version number the decimal point has to be shifted 2 positions to the left. E.g. a returned value of 138 means 1.38

This file is readonly.

What: /sys/bus/usb/devices/<busnum>-<devnum>:<config num>.<interface num>/kone\_driver\_version

Date: March 2010

Contact: Stefan Achatz <erazor\_de@users.sourceforge.net>

Description: When read, this file returns the driver version.

The format of the string is "v<major>.<minor>.<patchlevel>".

This attribute is used by the userland tools to find the sysfs-paths of installed kone-mice and determine the capabilities of the driver. Versions of this driver for old kernels replace usbhid instead of generic-usb. The way to scan for this file has been chosen to provide a consistent way for all supported kernel versions.

This file is readonly.

What: /sys/bus/usb/devices/<busnum>-<devnum>:<config num>.<interface num>/profile[1-5]

Date: March 2010

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Contact: Stefan Achatz <erazor\_de@users.sourceforge.net>  
Description: The mouse can store 5 profiles which can be switched by the press of a button. A profile holds informations like button mappings, sensitivity, the colors of the 5 leds and light effects.  
When read, these files return the respective profile. The returned data is 975 bytes in size.  
When written, this file lets one write the respective profile data back to the mouse. The data has to be 975 bytes long.  
The mouse will reject invalid data, whereas the profile number stored in the profile doesn't need to fit the number of the store.

What: /sys/bus/usb/devices/<busnum>-<devnum>:<config num>.<interface num>/settings  
Date: March 2010  
Contact: Stefan Achatz <erazor\_de@users.sourceforge.net>  
Description: When read, this file returns the settings stored in the mouse. The size of the data is 36 bytes and holds information like the startup\_profile, tcu state and calibration\_data.  
When written, this file lets write settings back to the mouse. The data has to be 36 bytes long. The mouse will reject invalid data.

What: /sys/bus/usb/devices/<busnum>-<devnum>:<config num>.<interface num>/startup\_profile  
Date: March 2010  
Contact: Stefan Achatz <erazor\_de@users.sourceforge.net>  
Description: The integer value of this attribute ranges from 1 to 5.  
When read, this attribute returns the number of the profile that's active when the mouse is powered on.  
When written, this file sets the number of the startup profile and the mouse activates this profile immediately.

What: /sys/bus/usb/devices/<busnum>-<devnum>:<config num>.<interface num>/tcu  
Date: March 2010  
Contact: Stefan Achatz <erazor\_de@users.sourceforge.net>  
Description: The mouse has a "Tracking Control Unit" which lets the user calibrate the laser power to fit the mousepad surface.  
When read, this file returns the current state of the TCU, where 0 means off and 1 means on.  
Writing 0 in this file will switch the TCU off.  
Writing 1 in this file will start the calibration which takes around 6 seconds to complete and activates the TCU.

What: /sys/bus/usb/devices/<busnum>-<devnum>:<config num>.<interface num>/weight  
Date: March 2010  
Contact: Stefan Achatz <erazor\_de@users.sourceforge.net>  
Description: The mouse can be equipped with one of four supplied weights ranging from 5 to 20 grams which are recognized by the mouse and its value can be read out. When read, this file returns the raw value returned by the mouse which eases further processing in other software.  
The values map to the weights as follows:

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VALUE	WEIGHT
0	none
1	5g
2	10g
3	15g
4	20g

This file is readonly.