[0x2100] Vertical scrolling

RollerInfo = [0]GetRollerInfo()

GetRollerInfo

Summary

Returns the type & description of supported roller (vertical scrolling)

Returns

RollerInfo 3x[8bits]

Errors Link

None

Remarks

Request

0	1	2

Response

0	1	2
Roller Type	Num of ratchet by turn	Scroll lines

Roller Type:

0x00 Reserved
0x01 Standard roller, 1D & 2D type
0x02 Reserved
0x03 3G roller, all types (small or big)
0x04 Micro-ratchet (Gyro and future) - hybrid between 3G and std roller. No mode toggle anymore, heavy wheel.
0x05 Touch pad scrolling (normal scrolling direction: finger follows in the direction of scroll bar)
0x06 Touch pad scrolling with natural scrolling enabled by default in FW (inverted direction, finger direction follows content direction) -
0x07..0xFF Reserved

Num of ratchet by turn:

8-bit value, unsigned. Typical values are:

- 18 for mini rollers
- 24 for all 20mm wheels "big wheel"

- **36 for uRatchet wheel(18mm)**

Other values are also possible, depending on your control user for scrolling. May create a warning in HID++2.0 SW checker tool

- **If it's a linear scroller (touchpad, slider), specify the total counts on the full distance that finger can do on the surface.**

Scroll lines: this is the desired default value for SW

0x00 **do not change system setting**
0x01 **change scrolling speed to 1 line/scroll**
0x02 **preferred scrolling speed to 2 lines/scroll event**
0x03 **preferred scrolling speed to 3 lines/scroll event - this is usually the default on Windows.**
..
0xFE **254 lines/scroll**
0xFF **Page/screen scrolling**

SW Response Error Exception Link

[0x2120]Hi-resolution scrolling

mode,ResolutionMultiplier = [0]GetHighresScrollingMode()
mode,ResolutionMultiplier = [1]SetHighresScrollingMode(mode)

Hi-resolution scrolling

The feature handles high resolution scrolling mode on mice. Ensure that feature 0x2100 is present (vertical roller 0x2100) when using this feature.

GetHighresScrollingMode

Summary

Returns the current state of roller high-res (highRes-enabled, highRes-disabled) and the resolution factor(multiplier) when in highRes

Returns

[0] mode [8bits] 0x00 = highRes-disabled(default), 0x01 = highRes-enabled
[1] ResolutionMultiplier [8bits] Indicates the resolution multiplier at highres (i.e by how much we increase resolution when in HiRes).
Typically 8.

Errors Link

None

Remarks

Request

0	1		2	

Response

0	1	2	
mode	Resolution Multiplier		

SetHighresScrollingMode

Summary

Sets the state of roller resolution (highRes-enabled, highRes-disabled). Returns confirmation of set mode and what's the resolution multiplier.

Parameters

mode [8bits] 0x00 = highRes-disabled, 0x01 = highRes-enabled

Returns

[0] mode [8bits] 0x00 = highRes-disabled, 0x01 = highRes-enabled

[1] Resolution Multiplier [8bits] Indicates the resolution multiplier at highres (i.e by how much :qwe increase resolution when in HiRes).
Typically 8.

Note: also returning ResolutionMultiplier as response to a SetMode command allows single command from SW point of view.

Errors Link

InvalidArgument [8bits] If mode > 1

Remarks

Request

0	1		2	
mode				

Response

0	1	2

mode	Resolution Multiplier		