

# x4521 - Disable Keys

Version 0

## Disable Keys

[0] `GetCapabilities()` → `disableableKeys`

[1] `GetDisabledKeys()` → `disabledKeys`

[2] `SetDisabledKeys(keysToDisable)` → `disabledKeys`

## Overview

Define the presence of the keys which the SW allows the user to disable, and allow SW to disable them.

## Functions and Events

### [0] `GetCapabilities()` → `disableableKeys`

Returns keys which the SW allows the user to disable

#### Parameters

none

#### Returns

`disableableKeys`

keys which the SW allows the user to disable

```
bit 0 : CAPSLock
bit 1 : NumLock
bit 2 : ScrollLock
bit 3 : Insert
bit 4 : Windows (Start)
```

Table 1. `getNbDevices()` response packet format

byte \ bit	7	6	5	4	3	2	1	0
0	disabledKeys							
	...	...	...	Windows (Start)	Insert	ScrollLock	NumLock	CAPSLock
1..15	reserved							

## Errors

none

## [1] GetDisabledKeys() → disabledKeys

Returns list of keys the SW has disabled

## Parameters

none

## Returns

**disabledKeys**

keys which the SW has disabled

```
bit 0 : CAPSLock
bit 1 : NumLock
bit 2 : ScrollLock
bit 3 : Insert
bit 4 : Windows (Start)
```

Table 2. GetDisabledKeys() response packet format

byte \ bit	7	6	5	4	3	2	1	0
0	disabledKeys							
	...	...	...	Windows (Start)	Insert	ScrollLoc k	NumLock	CAPSLoc k
1..15	reserved							

## Errors

none

## [2] SetDisabledKeys(keysToDisable) → disabledKeys

Selects which keys to disable

## Parameters

**keysToDisable**

keys to disable

```

bit 0 : CAPSLock
bit 1 : NumLock
bit 2 : ScrollLock
bit 3 : Insert
bit 4 : Windows (Start)

```

Table 3. *SetDisabledKeys()* request packet format

byte \ bit	7	6	5	4	3	2	1	0
0	keysToDisable							
	...	...	...	Windows (Start)	Insert	ScrollLoc k	NumLock	CAPSLoc k
1..15	reserved							

## Returns

### disabledKeys

echo of the keysToDisable parameter

```

bit 0 : CAPSLock
bit 1 : NumLock
bit 2 : ScrollLock
bit 3 : Insert
bit 4 : Windows (Start)

```

Table 4. *SetDisabledKeys()* response packet format

byte \ bit	7	6	5	4	3	2	1	0
0	disabledKeys							
	...	...	...	Windows (Start)	Insert	ScrollLoc k	NumLock	CAPSLoc k
1..15	reserved							

## Errors

- **HIDPP\_ERR\_INVALID\_ARGUMENT:** if a key is disabled or not defined (reserved)

## ChangeLog

- Version 0: Initial version