

Logitech Gaming LED SDK

Overview and Reference

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Overview

The Logitech Gaming LED SDK enables applications such as games to control the backlight LEDs on supported Logitech gaming mice and keyboards.

The user has the option to block games from changing the lighting via a setting in the Logitech Gaming Software (version 8.35 and newer). This option is located under the General settings tab of Logitech Gaming Software.

The SDK is a Windows based API for C/C++ programmers. Games based on the Microsoft Win32 API do not access hardware directly. Instead, the Logitech Gaming LED SDK interacts with supported Logitech devices on behalf of the games.

Logitech Gaming Software 8.55+ is required to enable this SDK's features.

SDK Package

The following files are included:

- LogitechLEDLib.h: C/C++ header file containing function prototypes
- LogitechLEDLib.lib: companion lib file to access DLL exported functions (32 and 64 bit)

Requirements

The Logitech Gaming LED SDK can be used on the following platforms:

- Windows XP SP2 (32-bit and 64-bit)
- Windows Vista (32-bit and 64-bit)
- Windows 7 (32-bit and 64-bit)
- Windows 8 (32-bit and 64-bit)

The Logitech Gaming LED SDK is a C based interface and is designed for use by C/C++ programmers. Familiarity with Windows programming is required.

Interfacing with the SDK

Using LogitechLed.h and LogitechLed.lib to access LogitechLed.dll

The application can include LogitechLEDLib.h and link to LogitechLEDLib.lib (see "Sample usage of the SDK" further below or sample program in Samples folder). The lib file loads the dll LogitechLed.dll that ships with Logitech Gaming Software 8.55+, therefore if Logitech Gaming Software is not installed in the host machine, the SDK won't work.

Available colors

Different devices have different capabilities. They range from full single-key RGB support to single color only.

Details for supported devices are found further below in "Features of lighting-capable Logitech Gaming mice and keyboards".

The SDK has a single function to set the backlighting color and takes values for R(ed), G(reen), B(lue). The way it deals with single color devices is to take whichever of the R, G, and B values is the highest and apply it. This is important to remember, because if for example rotating through colors, the game should make sure to alternate the maximum numbers as it rotates so that the effect on a single color device would be noticeable too.

Multiple clients using the SDK at the same time

The SDK allows only one client to control backlighting at any given time. In case two applications try to initialize the SDK, the latest one will take over control.

Features of lighting-capable Logitech Gaming mice and keyboards G910 Orion Spark



Colors

Single key RGB support. This keyboard supports all the functions available in the SDK, both per-key lighting and full keyboard lighting.

G710+



Colors

Single color only. Full resolution. Highest value for R, G or B defines brightness.

G633



*Colors*Supports full RGB.

G600



Colors

Supports full RGB, will work with the SDK only if set to Host mode through Logitech Gaming Software.

G510/G510s



Colors

Supports full RGB.

G110



Colors

Supports full R(ed) and B(lue), but not G(reen). When calling the SDK's LogiLedSetLighting function, values for green will be ignored.

G19 / G19s



Colors

Supports full RGB.

G105



Colors

Single color only. Full resolution. Highest value for R, G or B defines brightness.

G105 Call Of Duty



Colors

Single color only. Full resolution. Highest value for R, G or B defines brightness.

G300



Colors

Supports red on/off, green on/off, blue on/off, or a combination of the three. When calling the SDK's LogiLedSetLighting function, if the percentage given is below 50, the color will be off, and when above 50, the color will be on.

G502 Proteus Core



Colors

Single color only. Full resolution. Highest value for R, G or B defines brightness.

G402 Hyperion Fury



Colors

Single color only. Full resolution. Highest value for R, G or B defines brightness.

G302 Daedalus Prime



Colors

Single color only. Full resolution. Highest value for R, G or B defines brightness.

G303 Daedalus Apex



Colors

Supports Full RGB.

G11



Colors

Single color only, 3 levels of brightness. When calling the SDK's LogiLedSetLighting function, if the highest RGB percentage given is below 33, the color will be off, if between 33 and 66, the brightness will be low, and when above 66, the brightness will be high.

G13

The SDK treats this device as a keyboard.



Colors

Supports full RGB.

G15 v1



Colors

Single color only, 3 levels of brightness. When calling the SDK's LogiLedSetLighting function, if the highest RGB percentage given is below 33, the color will be off, if between 33 and 66, the brightness will be low, and when above 66, the brightness will be high.

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G15 v2



Colors

Single color only, 3 levels of brightness. When calling the SDK's LogiLedSetLighting function, if the highest RGB percentage given is below 33, the color will be off, if between 33 and 66, the brightness will be low, and when above 66, the brightness will be high.

Do's and Don'ts

These are a few guidelines that may help you implement 'better' support in your game:

- If you don't use the LogiLedSetTargetDevice function, remember that some devices have only a single color. They will work fine if flashing a red warning light for example (their color will flash), but if rotating lighting try to make sure that the max value of the three colors goes up and down so that single color devices will have their brightness go up and down.
- Whenever doing a temporary lighting effect, do not forget to save the current lighting (using LogiLedSaveCurrentLighting function) just before starting the effect, and then restoring the lighting (via SDK's LogiLedRestoreLighting function) right after the effect is finished. This only applies to user defined effects, the saving-restore lighting is already included in the preset effects (LogiLedFlashLighting and LogiLedPulseLighting).
- When calling LogiLedSetLighting, Logitech Gaming Software will make sure to not override current brightness for devices that only support single color. Therefore, setting the lighting to 100% red, on a G710+ it will result in a max brightness according to the user hardware settings.

Sample usage of the SDK

```
#include " LogitechLEDLib.h"
...
LogiLedInit();
```

```
// Be sure to do other things to give some time before calling LogiLedSetLighting()
...

// Save current lighting before starting some temporary effect
LogiLedSaveCurrentLighting();
...

int red = ...;
int green = ...;
int blue = ...;

LogiLedSetLighting(red, green, blue);
...

// Call per-key lighting effects
LogiLedSetLightingForKeyWithKeyName(keyboardNames::ARROW_DOWN, red, green, blue);
...

// Possibly call effect functions
LogiLedFlashLighting(red, green, blue, duration, interval);
...

LogiLedPulseLighting(red, green, blue, duration, interval);

// Restore previously saved lighting when effect is finished
LogiLedRestoreLighting();
...

LogiLedShutdown();
```

Reference

LogiLedInit

The **LogiLedInit**() function makes sure there isn't already another instance running and then makes necessary initializations. It saves the current lighting for all connected and supported devices. This function will also stop any effect currently going on the connected devices.

```
bool LogiLedInit();
```

Return value

If the function succeeds, it returns true. Otherwise false.

If it returns false, means that the connection with Logitech Gaming Software is broken, make sure that it is running.

LogiLedGetSdkVersion

The **LogiLedGetSdkVersion** () function retrieves the version of the SDK version installed on the user's system.

bool LogiLedGetSdkVersion(int *majorNum, int *minorNum, int *buildNum);

Parameters

- majorNum: [in] the function will fill this parameter with the major build number of the sdk installed in the system
- minorNum: [in] the function will fill this parameter with the minor build number of the sdk installed in the system
- buildNum: [in] the function will fill this parameter with the build number of the sdk installed in the system

Return value

If the function succeeds, it returns true. Otherwise false.

If it returns false, means that there is no SDK installed on the user system, or the sdk version could not be retrieved.

LogiLedSetTargetDevice

The **LogiLedSetTargetDevice** () function sets the target device type for future calls. The default target device is LOGI_DEVICETYPE_ALL, therefore, if no call is made to LogiLedSetTargetDevice the SDK will apply any function to all the connected devices.

bool LogiLedSetTargetDevice(int targetDevice);

Parameters

• targetDevice: one or a combination of the following values:

```
LOGI_DEVICETYPE_MONOCHROME
LOGI_DEVICETYPE_RGB
LOGI_DEVICETYPE_PERKEY_RGB
LOGI_DEVICETYPE_ALL
```

Return value

If the function succeeds, it returns true. Otherwise false.

The function will return false if **LogiLedInit**() hasn't been called, the parameter is wrong, or if the connection with Logitech Gaming Software was lost.

Example

```
LogiLedInit();
LogiLedSetTargetDevice(LOGI_DEVICETYPE_RGB | LOGI_DEVICETYPE_MONOCHROME);
//From now on the calls to LED SDK will only affect RGB and MONOCHROME devices, PER_KEY devices such as G910 will ignore this calls
LogiLedSetLighting(100,0,0);
...
LogiLedSetTargetDevice(LOGI_DEVICETYPE_PERKEY_RGB);
//Future calls will only affect per-key rgb devices such as G910.
LogiLedSetLightingForKeyWithKeyName(keyboardNames::ARROW_DOWN, 100, 0, 0);
```

```
LogiLedFlashLighting(50, 50, 50, 0, 300);
...
LogiLedSetTargetDevice(LOGI_DEVICETYPE_ALL);
//From now on we'll affect all the connected devices
LogiLedSetLighting(50, 0, 0);
...
LogiLedShutDown();
```

LogiLedSaveCurrentLighting

The **LogiLedSaveCurrentLighting**() function saves the current lighting so that it can be restored after a temporary effect is finished. For example if flashing a red warning sign for a few seconds, you would call the **LogiLedSaveCurrentLighting**() function just before starting the warning effect. On per-key backlighting supporting devices, this function will save the current state for each key.

```
bool LogiLedSaveCurrentLighting();
```

Return value

If the function succeeds, it returns true. Otherwise false.

The function will return false if **LogiLedInit**() hasn't been called or if the connection with Logitech Gaming Software was lost.

LogiLedSetLighting

The **LogiLedSetLighting**() function sets the lighting on connected and supported devices.

bool LogiLedSetLighting(int redPercentage, int greenPercentage, int bluePercentage);

Parameters

- redPercentage: amount of red. Range is 0 to 100.
- greenPercentage: amount of green. Range is 0 to 100.
- bluePercentage: amount of blue. Range is 0 to 100.

Return value

If the function succeeds, it returns true. Otherwise false.

The function will return false if **LogiLedInit**() hasn't been called or if the connection with Logitech Gaming Software was lost.

Remarks

Do not call this function immediately after LogiLedInit(). Instead leave a little bit of time after LogiLedInit().

For devices that only support a single color, the highest percentage value given of the three colors will define the intensity. For monochrome backlighting device, Logitech Gaming Software will reduce proportionally the value of the highest color, according to the user hardware brightness setting.

LogiLedRestoreLighting

The **LogiLedRestoreLighting**() function restores the last saved lighting. It should be called after a temporary effect is finished. For example if flashing a red warning sign for a few seconds, you would call this function right after the warning effect is finished.

On per-key backlighting supporting devices, this function will restore the saved state for each key.

bool LogiLedRestoreLighting();

Return value

If the function succeeds, it returns true. Otherwise false.

The function will return false if **LogiLedInit**() hasn't been called or if the connection with Logitech Gaming Software was lost.

LogiLedFlashLighting

The **LogiLedFlashLighting** () function saves the current lighting, plays the flashing effect on the targeted devices and, finally, restores the saved lighting.

bool LogiLedFlashLighting (int redPercentage, int greenPercentage, int bluePercentage,
int milliSecondsDuration, int milliSecondsInterval);

Parameters

- redPercentage: amount of red. Range is 0 to 100.
- greenPercentage: amount of green. Range is 0 to 100.
- bluePercentage: amount of blue. Range is 0 to 100.
- milliSecondsDuration : duration of the effect in milliseconds, this parameter can be set to LOGI_LED_DURATION_INFINITE to make the effect run until stopped through

LogiLedStopEffects()

milliSecondsInterval: duration of the flashing interval in milliseconds

Return value

If the function succeeds, it returns true. Otherwise false.

The function will return false if **LogiLedInit**() hasn't been called, if the connection with Logitech Gaming Software was lost or if another effect is currently running.

LogiLedPulseLighting

The **LogiLedPulseLighting** () function saves the current lighting, plays the pulsing effect on the targeted devices and, finally, restores the saved lighting.

bool LogiLedPulseLighting(int redPercentage, int greenPercentage, int bluePercentage, int
milliSecondsDuration, int milliSecondsInterval);

Parameters

- redPercentage: amount of red. Range is 0 to 100.
- greenPercentage: amount of green. Range is 0 to 100.
- bluePercentage: amount of blue. Range is 0 to 100.
- milliSecondsDuration: duration of the effect in milliseconds, this parameter can be set to LOGI_LED_DURATION_INFINITE to make the effect run until stopped through

LogiLedStopEffects()

milliSecondsInterval: duration of the flashing interval in milliseconds

Return value

If the function succeeds, it returns true. Otherwise false.

The function will return false if **LogiLedInit**() hasn't been called, if the connection with Logitech Gaming Software was lost or if another effect is currently running.

LogiLedStopEffects

The **LogiLedStopEffects** () function stops any of the presets effects (started from LogiLedFlashLighting or LogiLedPulseLighting).

bool LogiLedStopEffects();

Return value

If the function succeeds, it returns true. Otherwise false.

The function will return false if **LogiLedInit**() hasn't been called or if the connection with Logitech Gaming Software was lost.

LogiLedSetLightingFromBitmap

The **LogiLedSetLightingFromBitmap** () function, sets the array of bytes passed as parameter as colors to per-key backlighting featured connected devices.

bool LogiLedSetLightingFromBitmap(unsigned char bitmap[]);

Parameters

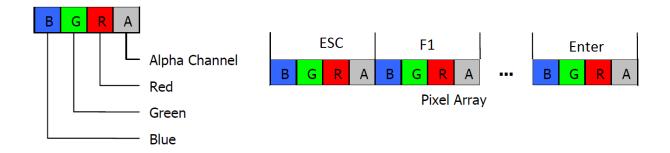
• bitmap: a unsigned char array containing the colors to assign to each key on the per-lighting device connected. The size required for this bitmap is defined by LOGI LED BITMAP SIZE

The array of pixels is organized as a rectangular area, 21x6, representing the keys on the device. Each color is represented by four consecutive bytes (RGBA).

Here is a graphical representation of the bitmap array:

byte 0-3	byte 4-7	byte 8-11	 byte 72-75	byte 76-79	byte 80-83
ESC	F1	F2	NULL	NULL	NULL
byte 84-87	byte 88-91 1	byte 92-95 2	 byte 156-159 /	byte 160-163 *	byte 164-167 -
byte 420-423	byte 424-427	byte 428-431	 byte 495-498	byte 499-502	byte 500-503
CTRL	WIN	ALT	NUM0	./DEL	NULL

32 bit values are stored in 4 consecutive bytes that represent the RGB color values for that pixel. These values use the same top left to bottom right raster style transform to the flat character array with the exception that each pixel value is specified using 4 consecutive bytes. The illustration below shows the data arrangement for these RGB quads.



Each of the bytes in the RGB quad specify the intensity of the given color. The value ranges from 0 (the darkest color value) to 255 (brightest color value).

Return value

If the function succeeds, it returns true. Otherwise false.

The function will return false if **LogiLedInit**() hasn't been called or if the connection with Logitech Gaming Software was lost.

Remarks

The array passed in has to be allocated by the caller of the size LOGI_LED_BITMAP_SIZE. If the array is smaller, the function will apply the effect to a smaller portion of the keyboard according to the previous graphic. If the array is bigger, the remaining part will be ignored.

LogiLedSetLightingForKeyWithScanCode

The **LogiLedSetLightingForKeyWithScanCode** () function sets the key identified by the scancode passed as parameter to the desired color. This function only affects per-key backlighting featured connected devices.

bool LogiLedSetLightingForKeyWithScanCode (int keyCode, int redPercentage, int
greenPercentage, int bluePercentage);

Parameters

- keyCode: the scan-code of the key to set
- redPercentage: amount of red. Range is 0 to 100.
- greenPercentage: amount of green. Range is 0 to 100.
- bluePercentage: amount of blue. Range is 0 to 100.

Return value

If the function succeeds, it returns true. Otherwise false.

The function will return false if **LogiLedInit**() hasn't been called or if the connection with Logitech Gaming Software was lost.

LogiLedSetLightingForKeyWithHidCode

The **LogiLedSetLightingForKeyWithHidCode** () function sets the key identified by the hid code passed as parameter to the desired color. This function only affects per-key backlighting featured connected devices.

bool LogiLedSetLightingForKeyWithHidCode (int keyCode, int redPercentage, int
greenPercentage, int bluePercentage);

Parameters

- keyCode: the hid-code of the key to set
- redPercentage: amount of red. Range is 0 to 100.
- greenPercentage: amount of green. Range is 0 to 100.
- bluePercentage: amount of blue. Range is 0 to 100.

Return value

If the function succeeds, it returns true. Otherwise false.

The function will return false if **LogiLedInit**() hasn't been called or if the connection with Logitech Gaming Software was lost.

LogiLedSetLightingForKeyWithQuartzCode

The **LogiLedSetLightingForKeyWithQuartzCode** () function sets the key identified by the quartz code passed as parameter to the desired color. This function only affects per-key backlighting featured connected devices.

bool LogiLedSetLightingForKeyWithQuartzCode (int keyCode, int redPercentage, int
greenPercentage, int bluePercentage);

Parameters

- keyCode: the quartz-code of the key to set
- redPercentage: amount of red. Range is 0 to 100.
- greenPercentage: amount of green. Range is 0 to 100.
- bluePercentage: amount of blue. Range is 0 to 100.

Return value

If the function succeeds, it returns true. Otherwise false.

The function will return false if **LogiLedInit**() hasn't been called or if the connection with Logitech Gaming Software was lost.

LogiLedSetLightingForKeyWithKeyName

The **LogiLedSetLightingForKeyWithKeyName** () function sets the key identified by the code passed as parameter to the desired color. This function only affects per-key backlighting featured connected devices.

bool LogiLedSetLightingForKeyWithHidCode (LogiLed::KeyName keyCode, int redPercentage,
int greenPercentage, int bluePercentage);

Parameters

keyCode: one of the key codes from the enum KeyName:

```
    ESC = 0x01,
    F1 = 0x3b,
    F2 = 0x3c,
    F3 = 0x3d,
    F4 = 0x3e,
```

•	F5	=	0x3f,
•	F6	=	0x40,
•	F7	=	0x41,
•	F8	=	0x42,
•	F9	=	0x43,
•	F10	=	0x44,
•	F11	=	0x57,
•	F12	=	0x58,
•	PRINT_SCREEN	=	0x137,
•	SCROLL_LOCK	=	0x46,
•	PAUSE_BREAK	=	0x45,
•	TILDE		0x29,
•	ONE	=	0x02,
•	TWO	=	0x03,
•	THREE	=	0x04,
•	FOUR	=	0x05,
•	FIVE		0x06,
•	SIX		0x07,
•	SEVEN	=	0x08,
•	EIGHT	=	0x09,
•	NINE		0x0A,
•	ZERO		0x0B,
•	MINUS		0x0C,
•	EQUALS		0x0D,
•	BACKSPACE	=	0x0E,
•	INSERT	=	···,
•	HOME	=	,
•	PAGE_UP	=	· · · · · · · · · · · · · · · · · · ·
•	NUM_LOCK	=	· · · · · · · · · · · · · · · · · · ·
•	NUM_SLASH	=	,
•	NUM_ASTERISK		0x37,
•	NUM_MINUS		0x4A,
•	TAB	=	0x0F,
•	Q	=	0x10,
•	W		0x11,
•	E		0x12,
•	R		0x13,
•	T		0x14,
•	Y		0x15,
•	U	=	,
•	I 0		0x17,
•			0x18,
•	P ODEN PRACVET		0x19,
•	OPEN_BRACKET		0x1A,
•	CLOSE_BRACKET BACKSLASH	=	···,
•	KEYBOARD DELETE	_	0x2B, 0x153,
-	VE LOOWIND DEFELE	_	0ΛΙ ΟΟ,

END	=	0x14F,
PAGE DOWN	=	0x151,
NUM SEVEN	=	0x47,
_	=	-
-		
-		
_		-
_		,
	=	0x1E,
	=	··· ,
D	=	0x20,
F	=	0x21,
G	=	0x22,
Н	=	0x23,
J	=	0x24,
K	=	0x25,
L	=	0x26,
SEMTCOLON	=	
_		-
_		
_		····
_	=	0x2A,
	=	
	=	··· ,
С	=	0x2E,
V	=	0x2F,
В	=	0x30,
N	=	0x31,
M	=	0x32,
COMMA	=	0x33,
PERIOD	=	0x34,
FORWARD_SLASH	=	0x35,
		0x36,
		0x148,
-		0x4F,
-		
		0x51,
-		
_		0x11C,
_		0x1D,
		0x15B,
_		0x38,
	=	0x39,
RIGHT_ALT	=	,
RIGHT_WINDOWS	=	0x15C,
APPLICATION_SELECT	=	0x15D,
RIGHT_CONTROL	=	0x11D,
	PAGE_DOWN NUM_SEVEN NUM_EIGHT NUM_NINE NUM_PLUS CAPS_LOCK A S D F G H J K L SEMICOLON APOSTROPHE ENTER NUM_FOUR NUM_FIVE NUM_SIX LEFT_SHIFT Z X C V B N M COMMA PERIOD FORWARD_SLASH RIGHT_SHIFT ARROW_UP NUM_ONE NUM_TWO NUM_THREE NUM_ENTER LEFT_CONTROL LEFT_WINDOWS LEFT_ALT SPACE RIGHT_ALT RIGHT_WINDOWS APPLICATION_SELECT	PAGE_DOWN = NUM_SEVEN = NUM_EIGHT = NUM_NINE = NUM_PLUS = CAPS_LOCK = A

```
    ARROW_LEFT = 0x14B,
    ARROW_DOWN = 0x150,
    ARROW_RIGHT = 0x14D,
    NUM_ZERO = 0x52,
    NUM_PERIOD = 0x53,
```

- redPercentage: amount of red. Range is 0 to 100.
- greenPercentage: amount of green. Range is 0 to 100.
- bluePercentage: amount of blue. Range is 0 to 100.

Return value

If the function succeeds, it returns true. Otherwise false.

The function will return false if **LogiLedInit**() hasn't been called or if the connection with Logitech Gaming Software was lost.

LogiLedSaveLightingForKey

The **LogiLedSaveLightingForKey** () function saves the current color on the keycode passed as argument. Use this function with the LogiLedRestoreLightingForKey to preserve the state of a key before applying any effect.

This function only applies to device of the family LOGI_DEVICETYPE_PERKEY_RGB.

bool LogiLedSaveLightingForKey(LogiLed::KeyName keyName)

Parameters

• keyName: The key to save the color for. A value from the LogiLed::KeyName enum.

Return value

If the function succeeds, it returns true. Otherwise false.

The function will return false if **LogiLedInit**() hasn't been called or if the connection with Logitech Gaming Software was lost.

LogiLed Restore Lighting For Key

The **LogiLedRestoreLightingForKey** () function restores the saved color on the keycode passed as argument. Use this function with the LogiLedSaveLightingForKey to preserve the state of a key before applying any effect.

This function only applies to device of the family LOGI DEVICETYPE PERKEY RGB.

bool LogiLedRestoreLightingForKey(LogiLed::KeyName keyName)

Parameters

keyName: The key to restore the color on. A value from the LogiLed::KeyName enum.

Return value

If the function succeeds, it returns true. Otherwise false.

The function will return false if **LogiLedInit**() hasn't been called or if the connection with Logitech Gaming Software was lost.

LogiLedFlashSingleKey

The **LogiLedFlashSingleKey** () function starts a flashing effect on the key passed as parameter. The key will be flashing with an interval as defined by msInterval for msDuration milliseconds, alternating the color passed in as parameter and black. This function only applies to device of the family LOGI_DEVICETYPE_PERKEY_RGB.

bool LogiLedFlashSingleKey(LogiLed::KeyName keyName, int redPercentage, int
greenPercentage, int bluePercentage, int msDuration, int msInterval)

Parameters

- keyName: The key to restore the color on. A value from the LogiLed::KeyName enum.
- redPercentage: amount of red in the active color of the flash effect. Range is 0 to 100.
- greenPercentage: amount of green in the active color of the flash effect. Range is 0 to 100.
- bluePercentage: amount of blue in the active color of the flash effect. Range is 0 to 100.
- msDuration : duration in milliseconds of the effect on the single key. This parameter can be set to LOGI_LED_DURATION_INFINITE to make the effect run until stopped through

LogiLedStopEffects() or LogiLedStopEffectsOnKey()

Return value

If the function succeeds, it returns true. Otherwise false.

The function will return false if **LogiLedInit**() hasn't been called or if the connection with Logitech Gaming Software was lost.

LogiLedPulseSingleKey

The **LogiLedPulseSingleKey** () function starts a pulsing effect on the key passed as parameter. The key will be pulsing with from start color to finish color for msDuration milliseconds. This function only applies to device of the family LOGI_DEVICETYPE_PERKEY_RGB.

bool LogiLedPulseSingleKey(LogiLed::KeyName keyName, int startRedPercentage, int
startGreenPercentage, int startBluePercentage, int finishRedPercentage, int
finishGreenPercentage, int finishBluePercentage, int msDuration, bool isInfinite);

Parameters

- keyName: The key to restore the color on. A value from the LogiLed::KeyName enum.
- startRedPercentage: amount of red in the start color of the pulse effect. Range is 0 to 100.
- startGreenPercentage: amount of green in the start color of the pulse effect. Range is 0 to 100.
- startBluePercentage: amount of blue in the start color of the pulse effect. Range is 0 to 100.
- finishRedPercentage amount of red in the finish color of the pulse effect. Range is 0 to 100.
- finishGreenPercentage: amount of green in the finish color of the pulse effect. Range is 0 to 100.
- finishBluePercentage: amount of blue in the finish color of the pulse effect. Range is 0 to 100.
- msDuration: duration in milliseconds of the effect on the single key.
- isInfinite: if this is set to true the effect will loop infinitely until stopped with a called to LogiLedStopEffects() or LogiLedStopEffectsOnKey()

Return value

If the function succeeds, it returns true. Otherwise false.

The function will return false if **LogiLedInit**() hasn't been called or if the connection with Logitech Gaming Software was lost.

LogiLedStopEffectsOnKey

The **LogiLedStopEffectsOnKey** () function stops any ongoing effect on the key passed in as parameter. This function only applies to device of the family LOGI DEVICETYPE PERKEY RGB.

bool LogiLedStopEffectsOnKey(LogiLed::KeyName keyName);

Parameters

• keyName: The key to stop the effects on. A value from the LogiLed::KeyName enum.

Return value

If the function succeeds, it returns true. Otherwise false.

The function will return false if **LogiLedInit**() hasn't been called or if the connection with Logitech Gaming Software was lost.

LogiLedShutdown

The **LogiLedShutdown** () function restores the last saved lighting and frees memory used by the SDK.

void LogiLedShutdown();

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