



CUE SDK

Overview and Reference

Protocol version 4

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Contents

Overview	4
CUE SDK functional features	4
Other SDK features	5
SDK Package	5
Requirements	5
Supported devices	6
Multiple clients using the SDK at the same time	7
Other considerations	8
Single-color devices	8
On/off leds	8
LEDs that are not controlled by SDK	8
Memory management	8
Reference	9
bool CorsairSetLedsColors(int size, CorsairLedColor* ledsColors)	9
bool CorsairSetLedsColorsAsync(int size, CorsairLedColor* ledsColors, void(*CallbackType)(void*, bool, CorsairError), void *context)	10
bool CorsairGetLedsColors(int size, CorsairLedColor* ledsColors)	11
bool CorsairSetLayerPriority(int priority)	12
int CorsairGetDeviceCount()	13
CorsairDeviceInfo *CorsairGetDeviceInfo(int deviceIndex)	14
CorsairLedPositions *CorsairGetLedPositions()	15
CorsairLedPositions *CorsairGetLedPositionsByDeviceIndex()	16
CorsairLedId CorsairGetLedIdForKeyName(char keyName)	17
bool CorsairRequestControl(CorsairAccessMode accessMode)	18
bool CorsairReleaseControl(CorsairAccessMode accessMode)	19
CorsairProtocolDetails CorsairPerformProtocolHandshake()	20
bool CorsairRegisterKeypressCallback(void (*CallbackType)(void *context, CorsairKeyId keyId, bool pressed), void *context)	21
CorsairError CorsairGetLastError()	22
enum CorsairLedId	22
enum CorsairKeyId	23
enum CorsairDeviceType	23
enum CorsairPhysicalLayout	24
enum CorsairLogicalLayout	25
enum CorsairDeviceCaps	26

enum CorsairAccessMode	27
enum CorsairError	28
struct CorsairLedColor	29
struct CorsairDeviceInfo	30
struct CorsairLedPositions	31
struct CorsairLedPosition	32
struct CorsairProtocolDetails	33
Device coordinates	34
Examples of how to use SDK	37
End User License Agreement	38

Overview

The Corsair Utility Engine (CUE) SDK gives ability for third-party applications to control lightings on Corsair RGB devices. CUE SDK interacts with hardware through CUE so it should be running in order for SDK to work properly.

SDK features are supported in CUE version 1.10 or higher.

To use this SDK you should have basic knowledge in C and library linking.

CUE SDK functional features:

- SDK provides ability to specify/query RGB color for every LED on keyboard, mouse, mouse mat, headset or headset stand.
- SDK provides information about connected hardware: models, physical and logical layouts.
- SDK provides information about HW geometry so that clients can show visual effects that depend on geometry like wave or ripple (ie. control lighting by key position).
- SDK provides helper functions to convert alphanumeric key names (like 'A', 'Q', 'Z') into identifiers for "tutorial" kind of clients that want to highlight exact keys taking into account logical layout (ie. control lighting by key name).
- SDK provides **exclusive** and **shared** access to SDK clients.
- SDK provides layers for shared clients so they can ensure that colors set by them are shown on top of CUE colors if this is needed
- SDK provides information about G keys pressed on the keyboard or M keys pressed on the mouse
- User can forbid third-party applications to control lighting in CUE settings.

Other SDK features:

- CUE works properly with multiple clients. SDK library itself is thread safe so that clients are able to use it from multiple threads within the same process.
- SDK is fail-safe. If CUE is not present, shuts down by the user or crashes this does not cause a client crashing or hanging.
- SDK handles handshake during client initialization to agree on protocol version that CUE implements, so that CUE can decide if it supports client protocol version and client can decide which of API functions it can call.

SDK Package

The following folders are included:

- **include** contains C/C++ header files with function prototypes and enum declarations;
- **bin** contains both 32 and 64 bit .dll files;
- **lib** contains companion .lib files to access exported functions (32 and 64 bit);
- **examples** contains sample project that shows how to use SDK;
- **doc** contains SDK documentation (this document).

Requirements

This SDK can be used on the same platforms that CUE does:

- **Windows 7** (32-bit and 64-bit);
- **Windows 8** (32-bit and 64-bit);
- **Windows 10** (32-bit and 64-bit).

Supported devices

Keyboards:

- CGK65 RGB
- K65 LUX RGB
- K65 RGB RAPIDFIRE
- K70 RGB
- K70 LUX
- K70 RAPIDFIRE
- K70 LUX RGB
- K70 RGB RAPIDFIRE
- K95 RGB
- STRAFE
- STRAFE RGB
- K63
- K68
- K95 RGB PLATINUM

Headsets:

- VOID USB
- VOID WIRELESS
- VOID PRO USB
- VOID PRO WIRELESS

Mouse Mat:

- MM800 RGB

Headset Stand:

- ST100 RGB

Mice:

- M65 RGB
- M65 PRO RGB
- SABRE
- SABRE RGB
- SABRE RGB Optical
- SABRE RGB Laser
- Scimitar
- GLAIVE RGB
- Scimitar PRO RGB
- KATAR

Multiple clients using the SDK at the same time

SDK provides **exclusive** and **shared** access to SDK clients.

- **Exclusive** access - lighting controlled only by client and not by CUE or other SDK clients. There can be only one **exclusive** client at a time. If there is already an active **exclusive** client A and a new client B requests **exclusive** access to the lighting then client B becomes **exclusive** client and client A loses **exclusive** control (ie "last win" strategy).
- **Shared** access - multiple clients may control lighting at the same time, optionally choosing theirs layer priority from interval [0..255]. There can be unlimited number of **shared** clients working simultaneously. If some client requests **exclusive** access then all other **shared** clients will not be able to override colors that were set by **exclusive** client. When **exclusive** client disconnects all **shared** clients can override colors again.
- CUE itself acts like a shared client with layer priority 127, so if there is a client taking over exclusive control then CUE will not try to override colors.

The default access mode is **shared**.

Other considerations

Single-color devices

If a connected device only has LEDs of one color instead of all three (RGB) then when RGB color is set to such leds SDK chooses maximum of three (RGB) values and uses it as brightness for LED.

On/off leds

If a connected device has some LEDs that support only on/off control then if supplied brightness value is ≥ 128 such LED will be switched on, otherwise it will be switched off.

LEDs that are not controlled by SDK

Side LEDs on Corsair STRAFE keyboards can not be controlled by SDK. These LEDs remain controlled by CUE regardless of connected SDK clients.

Memory management

SDK is responsible for freeing memory that was allocated by its functions. The memory is freed when SDK library is unloaded.

Reference

```
bool CorsairSetLedsColors(int size, CorsairLedColor* ledsColors)
```

Description: set specified leds to some colors. The color is retained until changed by successive calls. This function does not take logical layout into account. This function executes synchronously, if you are concerned about delays consider using *CorsairSetLedsColorsAsync*

Input arguments:

- *int size* - number of leds in *ledsColors* array;
- *CorsairLedColor* ledsColors* - array containing colors for each LED.

Returns: boolean value. True if successful. Use *CorsairGetLastError()* to check the reason of failure. If there is no such ledId present in currently connected hardware (missing key in physical keyboard layout, or trying to control mouse while it's disconnected) then function completes successfully and returns true.

Possible errors:

- *CE_ServerNotFound*, *CE_NoControl*, *CE_ProtocolHandshakeMissing*
- *CE_InvalidArguments* - if some of r, g, b values are beyond [0..255] interval or array contains duplicates of some led ids.

```
bool CorsairSetLedsColorsAsync(int size, CorsairLedColor* ledsColors,  
void(*CallbackType)(void*, bool, CorsairError), void *context)
```

Description: same as *CorsairSetLedsColors* but returns control to the caller immediately.

Input arguments:

- *int size* - number of leds in *ledsColors* array;
- *CorsairLedColor* ledsColors* - array containing colors for each LED;
- *void (*CallbackType)(void* context, bool result, CorsairError error)* - callback that is called by SDK when colors are set. Can be *NULL* if client is not interested in result:
 - context contains value that was supplied by user in *CorsairSetLedsColorsAsync* call;
 - result is true if call was successful, otherwise false;
 - error contains error code if call was not successful (*result==false*);

Possible errors: *CE_ServerNotFound*, *CE_NoControl*

- *void* context* - arbitrary context that will be returned in callback call. Can be *NULL*.

Returns: boolean value. True if successful. Use *CorsairGetLastError()* to check the reason of failure.

Possible errors:

- *CE_ProtocolHandshakeMissing*
- *CE_InvalidArguments* - if some of r, g, b values are beyond [0..255] interval or array contains duplicates of some led ids.

```
bool CorsairGetLedsColors(int size, CorsairLedColor* ledsColors)
```

Description: get current color for the list of requested LEDs. The color should represent the actual state of the hardware LED, which could be a combination of SDK and/or CUE input

Input arguments:

- ***int size*** - number of leds in ***ledsColors*** array;
- ***CorsairLedColor* ledsColors*** - array containing colors for each LED. Caller should only fill ledId field, and then SDK will fill R, G and B values on return;

Returns: boolean value. True if successful. Use `CorsairGetLastError()` to check the reason of failure. If there is no such ledId present in currently connected hardware (missing key in physical keyboard layout, or trying to control mouse while it's disconnected) then functions completes successfully and returns true.

Also `ledsColors` array will contain R, G and B values of colors on return.

Possible errors:

- ***CorsairErrorServerNotFound, CorsairErrorProtocolHandshakeMissing***
- ***CorsairErrorInvalidArguments*** - if array contains duplicates of some led ids

```
bool CorsairSetLayerPriority(int priority)
```

Description: set layer priority for this shared client. By default CUE has priority of 127 and all shared clients have priority of 128 if they don't call this function. Layers with higher priority value are shown on top of layers with lower priority.

Input arguments:

- *int priority* - priority of a layer [0..255];

Returns: boolean value. True if successful. Use CorsairGetLastError() to check the reason of failure. If this function is called in exclusive mode then it will return true

Possible errors:

- *CorsairErrorServerNotFound, CorsairErrorProtocolHandshakeMissing*
- *CorsairErrorInvalidArguments* - if priority value is beyond [0..255] interval

```
int CorsairGetDeviceCount()
```

Description: returns number of connected Corsair devices. Returns not more than one device of each type (keyboard, mouse, mouse mat, headset, headset stand) in case if there are multiple devices of the same type connected to the system.

Use [*CorsairGetDeviceInfo\(\)*](#) to get information about a certain device.

Input arguments: no.

Returns: integer value. -1 in case of error. [0..5] are possible values.

Possible errors:

- *CE_ServerNotFound, CE_ProtocolHandshakeMissing*

```
CorsairDeviceInfo *CorsairGetDeviceInfo(int deviceIndex)
```

Description: returns information about a device based on provided index.

Input arguments:

- ***int deviceIndex*** - zero-based index of device. Should be strictly less than a value returned by ***CorsairGetDeviceInfo()***

Returns: pointer to ***CorsairDeviceInfo*** structure that contains information about device or ***NULL*** pointer if error has occurred.

Possible errors:

- ***CE_ServerNotFound,CE_ProtocolHandshakeMissing***
- ***CE_InvalidArguments*** - if ***deviceIndex*** is invalid.

CorsairLedPositions *CorsairGetLedPositions()

Description: provides list of keyboard LEDs with their physical positions. Coordinates grids for different device models can be found in Device coordinates.

Input arguments: no.

Returns: returns pointer to ***CorsairLedPositions*** struct or ***NULL*** if error has occurred.

Possible errors:

- ***CE_ServerNotFound, CE_ProtocolHandshakeMissing***

CorsairLedPositions *CorsairGetLedPositionsByDeviceIndex()

Description: provides list of keyboard or mousemat LEDs with their physical positions.

Input arguments:

- ***int deviceIndex*** - zero-based index of device. Should be strictly less than a value returned by ***CorsairGetDeviceCount()***

Returns: returns pointer to ***CorsairLedPositions*** struct or ***NULL*** if error has occurred.

Possible errors:

- ***CE_ServerNotFound***,
- ***CE_ProtocolHandshakeMissing***
- ***CE_InvalidArguments*** if ***deviceIndex*** is out of bounds or corresponds to neither keyboard, mouse mat nor headset stand device;
- ***CE_IncompatibleProtocol*** if the function was called for CUE that implements protocol version 2 or earlier.

CorsairLedId CorsairGetLedIdForKeyName(char keyName)

Description: retrieves led id for key name taking logical layout into account. So on AZERTY keyboards if user calls ***CorsairGetLedIdForKeyName('A')*** he gets ***CLK_Q***. This id can be used in ***CorsairSetLedsColors*** function.

Input arguments:

- ***char keyName*** - key name. ['A'..'Z'] (26 values) are valid values.

Returns: proper ***CorsairLedId*** or ***CorserLed_Invalid*** if error occurred.

Possible errors:

- ***CE_ServerNotFound, CE_ProtocolHandshakeMissing***
- ***CE_InvalidArguments*** - if ***keyName*** is invalid.

```
bool CorsairRequestControl(CorsairAccessMode accessMode)
```

Description: requests control using specified access mode. By default client has shared control over lighting so there is no need to call ***CorsairRequestControl()*** unless a client requires exclusive control.

Input arguments:

- ***CorsairAccessMode accessMode*** - requested ***accessMode***

Returns: boolean value. Returns true if SDK received requested control or false otherwise.

Possible errors:

- ***CE_ProtocolHandshakeMissing, CE_ServerNotFound***
- ***CE_InvalidArguments*** - if provided ***accessMode*** is not supported by this version of SDK.

```
bool CorsairReleaseControl(CorsairAccessMode accessMode)
```

Description: releases previously requested control for specified access mode.

Input arguments:

- ***CorsairAccessMode accessMode*** - ***accessMode*** that is requested to be released.

Returns: boolean value. Returns true if SDK released control or false otherwise.

Possible errors:

- ***CE_ProtocolHandshakeMissing, CE_ServerNotFound***
- ***CE_InvalidArguments*** - if provided ***accessMode*** is not supported by this version of SDK.
- ***CE_IncompatibleProtocol*** - if the function was called for SDK that implements protocol version 1 or earlier.

CorsairProtocolDetails CorsairPerformProtocolHandshake()

Description: checks file and protocol version of CUE to understand which of SDK functions can be used with this version of CUE.

Input arguments: no.

Returns: *CorsairProtocolDetails* struct.

Possible errors:

- *CE_ServerNotFound*

```
bool CorsairRegisterKeypressCallback(void (*CallbackType)(void *context,  
CorsairKeyId keyId, bool pressed), void *context)
```

Description: registers a callback that will be called by SDK when some of G or M keys are pressed or released

Input arguments:

- **void (*CallbackType)(void* context, CorsairKeyId keyId, bool pressed)** - callback that is called by SDK when key is pressed or released
- **context** contains value that was supplied by user in **CorsairRegisterKeypressCallback** call.
- **CorsairKeyId keyId** - the id of the key that was pressed or released
- **bool pressed** - true if the key was pressed and false if it was released
- **void* context** - arbitrary context that will be returned in callback call. Can be NULL.

Returns: boolean value. True if successful. Use **CorsairGetLastError()** to check the reason of failure

Possible errors:

- **CorsairErrorServerNotFound**, **CorsairErrorProtocolHandshakeMissing**
- **CorsairErrorInvalidArguments** - if callback is NULL

CorsairError CorsairGetLastError()

Description: returns last error that occurred in this thread while using any of Corsair* functions.

Input arguments: no.

Returns: *CorsairError* value.

Possible errors: no.

enum CorsairLedId

Description: contains shared list of all leds on all devices (keyboard, mouse, mouse mat, headset, headset stand) and all models/physical layouts.

Item samples:

- *CLK_F1, CLK_Esc, CLK_Q, CLK_1, CLK_UpArrow, CLK_G1, ...* - for keyboard leds;
- *CLKLP_Zone1, CLKLP_Zone2, ..., CLKLP_Zone19* - for keyboard light pipe leds;
- *CLM_1, CLM_2, ..., CLM_4* - for mouse leds;
- *CLH_LeftLogo, CLH_RightLogo* - for headset leds;
- *CLMM_1, CLMM_2, ..., CLMM_15* - for mousemat leds;
- *CLHSS_Zone1, CLHSS_Zone2, ..., CLHSS_Zone9* - for headset stand leds;
- *CLI_Invalid* - dummy value.

enum CorsairKeyId

Description: contains shared list of G and M keys (not all available keys!)

Items samples:

- ***CorsairKeyKb_G1, ..., CorsairKeyKb_G18*** - for keyboard G keys;
- ***CorsairKeyMouse_M1, ..., CorsairKeyMouse_M12*** - for mouse M keys;
- ***CorsairKey_Invalid*** - dummy value;
- ***CDT_Mousemat*** - for mouse mat.

enum CorsairDeviceType

Description: contains list of available device types.

Items:

- ***CDT_Keyboard*** - for keyboards;
- ***CDT_Mouse*** - for mice;
- ***CDT_Headset*** - for headsets;
- ***CDT_Mousemat*** - for mouse mat;
- ***CDT_HeadsetStand*** - for headset stand.

enum CorsairPhysicalLayout

Description: contains list of available physical layouts for keyboards.

Items:

- **CPL_US, CPL_UK, CPL_JP, CPL_KR, CPL_BR** - valid values for keyboard;
- **CPL_Zones1, CPL_Zones2, CPL_Zones3, CPL_Zones4** - valid values for mouse, number represents configurable mouse LEDs;
- **CPL_Invalid** - dummy value.

enum CorsairLogicalLayout

Description: contains list of available logical layouts for keyboards.

Items:

- *CLL_US_Int, CLL_NA, CLL_EU, CLL_UK, CLL_BE, CLL_BR, CLL_CH, CLL_CN, CLL_DE, CLL_ES, CLL_FR, CLL_IT, CLL_ND, CLL_RU4, CLL_JP, CLL_KR, CLL_TW, CLL_MEX* - valid values;
- *CLL_Invalid* - dummy value.

enum CorsairDeviceCaps

Description: contains list of device capabilities. First version of SDK only supports lighting, but future versions may also support other capabilities.

Items:

- ***CDC_None == 0*** - for devices that do not support any SDK functions;
- ***CDC_Lighting == 1*** - for devices that has controlled lighting.

enum CorsairAccessMode

Description: contains list of available SDK access modes.

Items:

- *CAM_ExclusiveLightingControl*

enum CorsairError

Description: contains shared list of all errors that could happen during calling of Corsair* functions.

Items:

- ***CE_Success*** - If previously called function was completed successfully;
- ***CE_ServerNotFound*** - if CUE is not running or was shut down or third-party control is disabled in CUE settings (runtime error);
- ***CE_NoControl*** - if some other client has or took over exclusive control (runtime error);
- ***CE_ProtocolHandshakeMissing*** - if developer did not perform protocol handshake (developer error);
- ***CE_IncompatibleProtocol*** - if developer is calling the function that is not supported by the server (either protocol has been broken by server or client or the function is new and server is too old.
Check ***CorsairProtocolDetails*** for details), (developer error);
- ***CE_InvalidArguments*** - if developer supplied invalid arguments to the function (for specifics look at function descriptions), (developer error).

struct CorsairLedColor

Description: contains information about led and its color.

Fields:

- ***CorsairLedId ledId*** - identifier of LED to set;
- ***int r*** - red brightness [0..255];
- ***int g*** - green brightness [0..255];
- ***int b*** - blue brightness [0..255].

struct CorsairDeviceInfo

Description: contains information about device.

Fields:

- ***CorsairDeviceType type*** - enum describing device type;
- ***const char *model*** - null-terminated device model (like "K95RGB");
- ***CorsairPhysicalLayout physicalLayout*** - enum describing physical layout of the keyboard or mouse. If device is neither keyboard nor mouse then value is ***CPL_Invalid***
- ***CorsairLogicalLayout logicalLayout*** - enum describing logical layout of the keyboard as set in CUE settings. If device is not keyboard then value is ***CLL_Invalid***
- ***int capsMask*** - mask that describes device capabilities, formed as logical "or" of ***CorsairDeviceCaps*** enum values;
- ***int ledsCount*** - number of controllable LEDs on the device.

struct CorsairLedPositions

Description: contains number of leds and array with their positions.

Fields:

- *int numberOfRowsLeds* - integer value. Number of elements in the following array;
- *CorsairLedPosition* pLedPosition* - array of led positions.

struct CorsairLedPosition

Description: contains led id and position of led rectangle. Most of the keys are rectangular. In case if key is not rectangular (like Enter in ISO/UK layout) it returns the smallest rectangle that fully contains the key.

Fields:

- ***CorsairLedId ledId*** - identifier of led;
- ***double top, double left, double height, double width*** - values in mm.

struct CorsairProtocolDetails

Description: contains information about SDK and CUE versions.

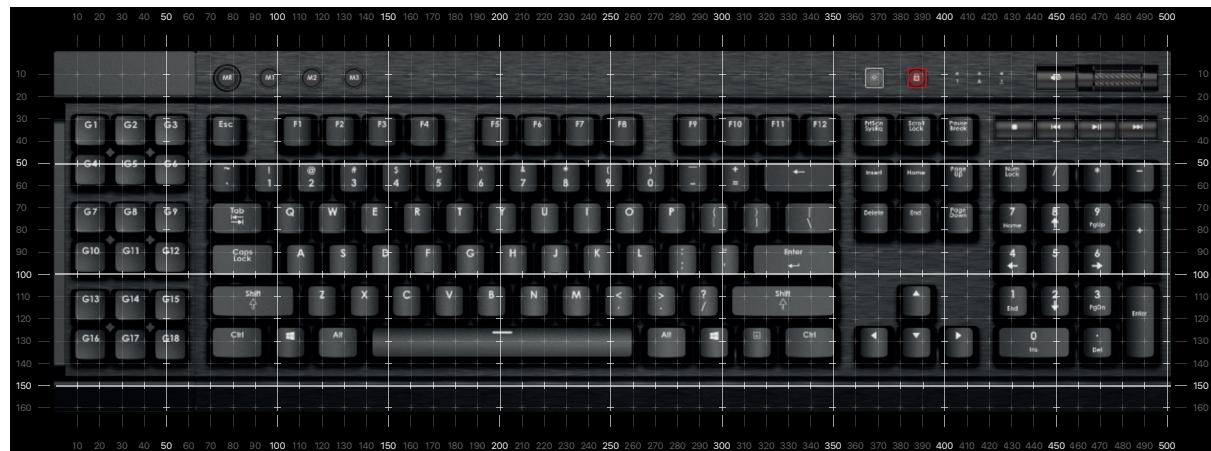
Fields:

- ***const char *sdkVersion*** - null-terminated string containing version of SDK (like "1.0.0.1"). Always contains valid value even if there was no CUE found;
- ***const char *serverVersion*** - null-terminated string containing version of CUE (like "1.0.0.1") or ***NULL*** if CUE was not found;
- ***int sdkProtocolVersion*** - integer number that specifies version of protocol that is implemented by current SDK. Numbering starts from 1. Always contains valid value even if there was no CUE found;
- ***int serverProtocolVersion*** - integer number that specifies version of protocol that is implemented by CUE. Numbering starts from 1. If CUE was not found then this value will be 0;
- ***bool breakingChanges*** - boolean value that specifies if there were breaking changes between version of protocol implemented by server and client.

Device coordinates

LED coordinates returned by *CorsairGetLedPositions* and *CorsairGetLedPositionsByDeviceIndex* functions are available on pictures below.

K95 RGB



K95 RGB PLATINUM



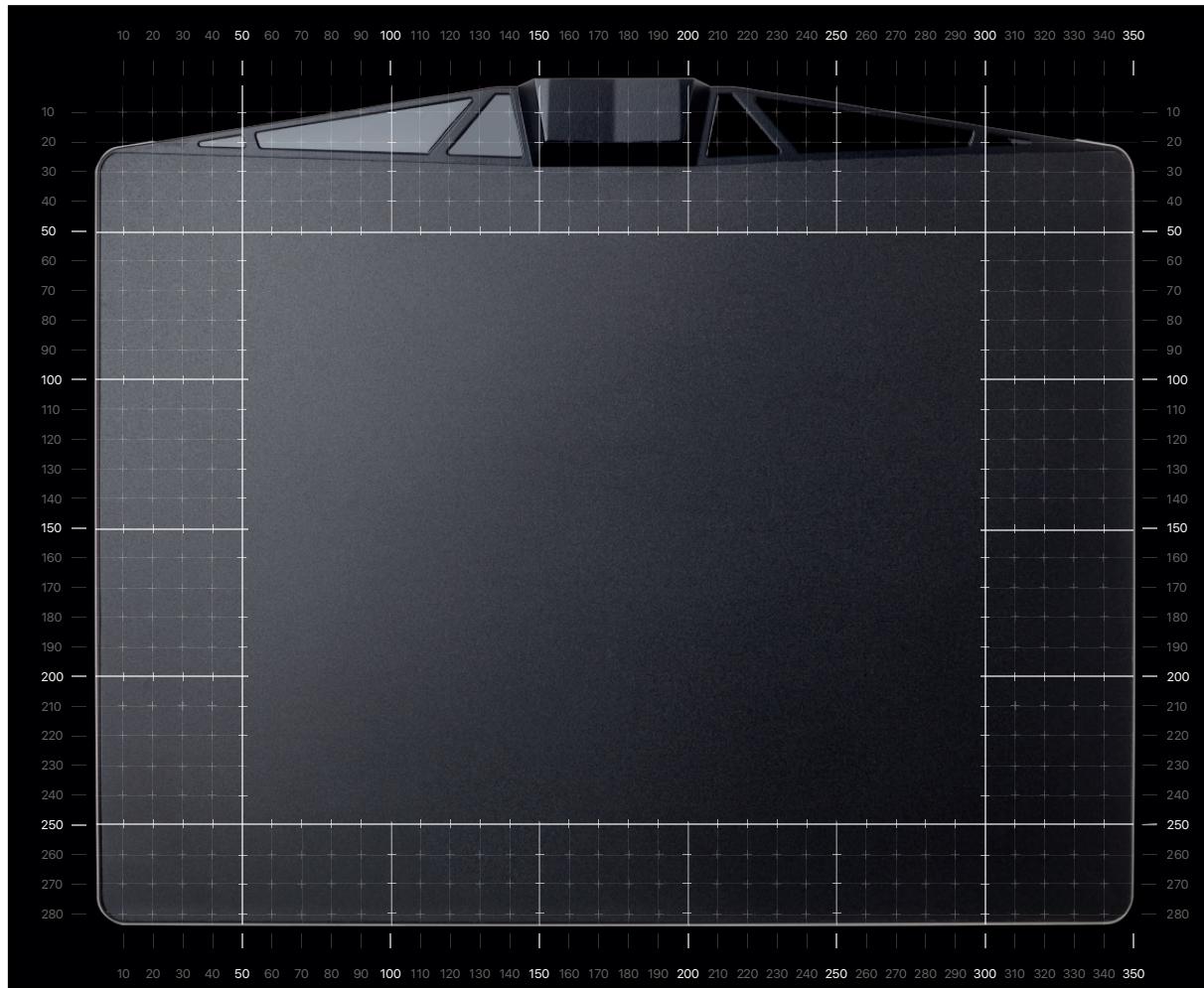
K68



K63



MM800 RGB



Examples of how to use SDK

There are three usage **examples** in examples folder:

- **color_pulse** plays pulse effect on all available LEDs on connected devices using *CorsairGetDeviceCount*, *CorsairGetDeviceInfo*, *CorsairGetLedPositions*, *CorsairSetLedsColorsAsync* functions;
- **progress** shows how to implement basic progress bar with all keyboard LEDs on different layers using *CorsairGetLedPositions*, *CorsairSetLedsColors*, *CorsairSetLayerPriority functions*;
- **test_highlight** gets word from user input and one by one highlights keys that correspond to every char of that word. This example describes sample usage of *CorsairRequestControl*, *CorsairGetLedIdForKeyName*, *CorsairSetLedsColors* functions.
- **register_callback** shows how to register callback (pointer to function) that will be called by SDK when some of G or M keys are pressed or released using *CorsairRegisterKeypressCallback* function and how to get the actual state of the hardware LED, which could be a combination of SDK and/or CUE input using *CorsairGetLedsColor*.

End User License Agreement

On-Line End User License Agreement

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7. Software Support Services.

CORSAIR offers technical support services. See www.corsair.com. Such technical support shall be provided in CORSAIR's sole discretion without any guarantee or warranty of any kind. It is your responsibility to back up of all your existing data, software and programs before receiving any technical support from CORSAIR. CORSAIR reserves the right to refuse, suspend or terminate any technical support, in its sole discretion.

8. Choice of Law and Jurisdiction.

This Agreement will be governed by and construed in accordance with the substantive laws of the State of California in the United States, without giving effect to any choice-of-law rules that may require the application of the laws of another jurisdiction. This Agreement will not be governed by the United Nations Convention on Contracts for the International Sale of Goods, the application of which is expressly excluded. Any disputes arising under this Agreement shall be settled exclusively in the California state courts or United States federal courts located in California. The parties hereby submit to the personal jurisdiction of such courts for the purpose of resolving any dispute under this Agreement.

9. Severability/Reformation.

If any provision of this Agreement is found to be void or unenforceable, it will not affect the validity of any other provision of this Agreement and those provisions will remain valid and enforceable according to their terms. To the extent that an unenforceable provision may be reformed to be enforceable by a court of law, such provision will be deemed to be so reformed in this Agreement.

10. Other Rights Reserved.

All rights not specifically granted in this Agreement are reserved by Corsair.

11. Entire Agreement.

You acknowledge that You have read this Agreement, understand it and agree to be bound by its terms and conditions. You further agree that it is the complete and exclusive statement of the agreement between us which supersedes any proposal or prior agreement, oral or written, and any other communications between us relating to the subject matter of this Agreement.