



G&D CommandKeyboard

EN Installation and Operation



About this manual

This manual has been carefully compiled and examined to the state-of-the-art.

G&D neither explicitly nor implicitly takes guarantee or responsibility for the quality, efficiency and marketability of the product when used for a certain purpose that differs from the scope of service covered by this manual.

For damages which directly or indirectly result from the use of this manual as well as for incidental damages or consequential damages, G&D is liable only in cases of intent or gross negligence.

Caveat Emptor

G&D will not provide warranty for devices that:

- Are not used as intended.
- Are repaired or modified by unauthorized personnel.
- Show severe external damages that was not reported on the receipt of goods.
- Have been damaged by non G&D accessories.

G&D will not be liable for any consequential damages that could occur from using the products.

Proof of trademark

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Guntermann & Drunck GmbH
Obere Leimbach 9
57074 Siegen

Germany

Phone +49 271 23872-0
Fax +49 271 23872-120

www.gdsys.com
sales@gdsys.com

FCC Statement

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.

This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation.

If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

The devices named in this manual comply with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) the devices may not cause harmful interference, and (2) the devices must accept any interference received, including interference that may cause undesired operation.

Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Notice for Canada

This Class B digital apparatus complies with Canadian ICES-003.

Canadian Class B Statement

This digital apparatus does not exceed the Class B limits for radio noise emissions from digital apparatus as set out in the radio interference regulations of Industry Canada.

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Safety guidelines

⚠ Do not take apart the CommandKeyboard, otherwise this will invalidate the warranty, and do not attempt to operate it under abnormal current loads.

⚠ Keep the CommandKeyboard away from liquid, humidity, or moisture.

⚠ Operate the CommandKeyboard only within the specific temperature range of 0°C (32°F) to 40°C (104°F).

Should the temperature exceed this range, unplug and/or switch off the device in order to let the temperature stabilize to an optimum level.

NOTE: Should you have trouble operating the CommandKeyboard properly and troubleshooting does not work, unplug the device and contact the G&D Support.

Comfort

Continuous use of computer keyboards may cause repetitive strain injury (RSI or related harm to the operator. If you feel aching or strain in your wrists, hands, arms or elsewhere in your body whilst using this device, consult either a qualified health professional or your local occupational Health & Safety advisory service for advice.

Maintenance and use

The CommandKeyboard requires minimal maintenance. It is recommended that once a month to unplug the device from the computer or device with keyboard support and clean the device using a soft cloth or soft brush to prevent dirt and dust build-up.

The CommandKeyboard

The **CommandKeyboard** combines a standard keyboard in various international layouts with additional programmable keys. The programmable keys can be assigned with any macros using dedicated software.

The product behaves like a standard keyboard that is compatible with all standard devices with keyboard support. The operation of KVM products is therefore possible as well.

The macros that can be stored on the programmable keys are stored directly in the keyboard's memory. No special driver software or similar is required for operation (apart from programming the keys).

The dedicated software enables you to create any configuration for the programmable keys.

Scope of delivery

- 1 × CommandKeyboard
- 1 × 10-pack of spare relegendable key lenses
- 1 × Leaflet

Installation

How to set up the CommandKeyboard

1. Connect the CommandKeyboard to a powered Type A USB port on your computer or device with keyboard support.
2. When first connected, the keyboard status indicator LEDs will briefly flash on for a second.

NOTE: If connecting to the computer or device with keyboard support for a first time, there may be a short delay whilst the device loads the appropriate keyboard driver.

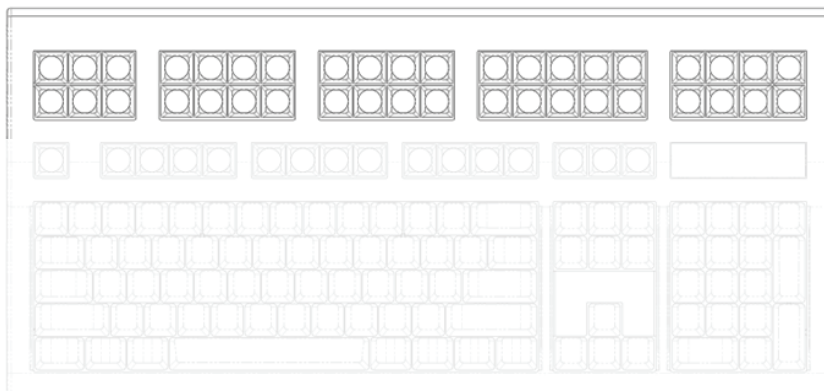
3. The CommandKeyboard is now ready to operate.

Keyboard Programmer

Introduction

The G&D Keyboard Programmer application facilitates end-user configuration of the G&D CommandKeyboard. The G&D CommandKeyboard consists a standard 104 or 105 key keyboard layout with an additional 40 programmable keys.

Relegendable and programmable keys



The application provides the user with the ability to define either a single key stroke or multiple key stroke sequence to any of the 40 programmable keys.

A simple graphical user interface enables the user to create a visual representation of their specific keyboard layout, including selecting individual colours and legends for each key. Key strokes are assigned by pressing the required keys on a standard keyboard in the easy-to-use programming window.

Configurations can be stored and recalled allowing multiple keyboards to be configured in a single session.

A test window allows configurations to be checked before the keyboard is deployed.

System requirements

- PC with spare USB port and standard keyboardCommandKeyboard
- Minimum 200kB application storage
- Windows® 10, Windows® 11 Operating System

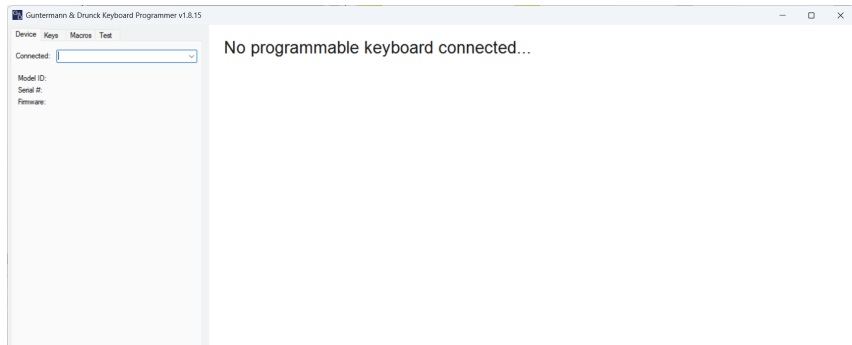
Download and installing G&D Keyboard Programmer software

How to download and install the G&D Keyboard Programmer software

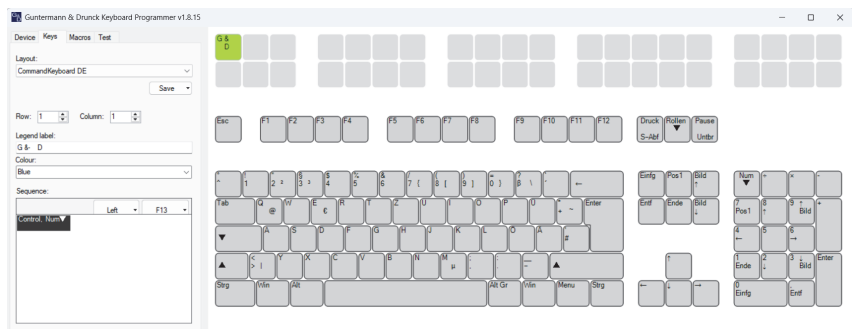
1. The software is provided as download on the G&D website.
Go to **www.gdsys.com**. Click on **Service** and then on **Downloads**.
2. Click on **Tools & Drivers** and then on **CommandKeyboard Programmer**.
3. Download the software.
4. Run the GuD Keyboard Programmer installer and follow the on-screen instructions.

Getting started

Run the GuD Keyboard Programming application. If the CommandKeyboard is not connected to the host system, the following image will be displayed.



Connect a CommandKeyboard or if the application is started with the keyboard connected, the image following figure will be displayed.



The configuration window enables each of the 40 programmable keys to be assigned the desired function. Care should be taken when modifying the keys to prevent any undesirable issues by incorrectly assigning wrong key codes. It is recommended to keep a separate copy of an important template layout file as a reference to allow the keyboard to be recovered to a known state.

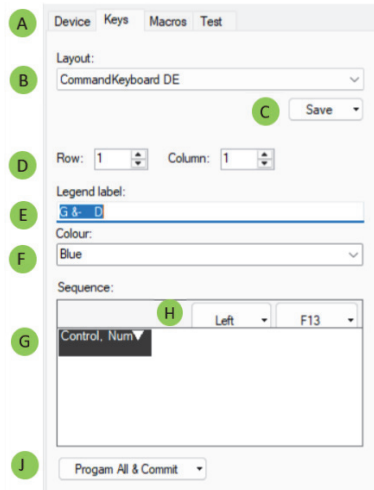
IMPORTANT: Please note that the predefined *default* layout **CommandKeyboard** cannot be overwritten.

The configuration window is split into 2 distinct areas:

- Key status (see page 7 ff.)
- Keyboard layout (see page 11 ff.)

Key Status

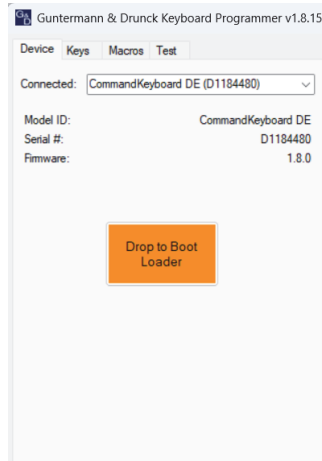
The key status section of the configuration window, shows the location, label, colour and key code assignment for the key highlighted in green in the layout window.



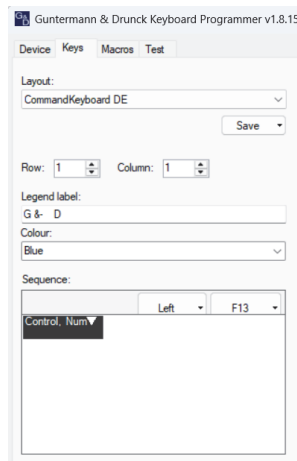
- **A:** Tab selection bar (see page 8 ff.)
- **B:** Layout selection drop-down box (see page 10 ff.)
- **C:** Save button (see page 10 ff.)
- **D:** Row/column identifier (see page 10 ff.)
- **E:** Key legend text box (see page 10 ff.)
- **F:** Key colour selection drop-down box (see page 10 ff.)
- **G:** Key assignment display window (see page 10 ff.)
- **H:** Special key assignment drop-down boxes (see page 10 ff.)
- **J:** Program All & Commit button (see page 10 ff.)

Tab selection bar

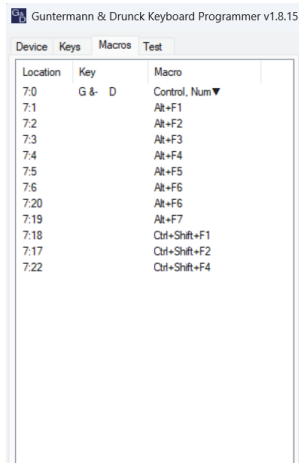
The **Device** tab, displays critical information about the keyboard. This information is crucial when contacting the technical support team regarding an issue with the keyboard.



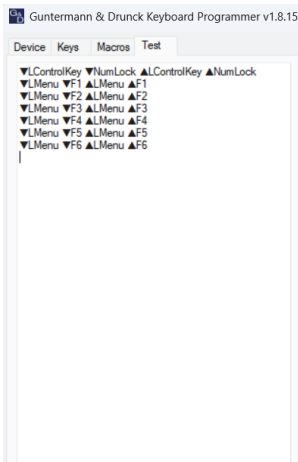
The **Keys** tab is used for assigning key codes or macros to individual keys (see *Key Assignment* on page 13 ff.).



The **Macros** tab, displays key macros (i.e. multiple key press assignments) that are assigned to each of the keys.



The **Test** tab, can be used to check the key codes assigned to each key.



Layout selection drop-down box

The **Layout selection control** is used to choose a previously created layout file for configuring the keyboard.

Save button

Use the **Save button** to store the current configuration to a file.

IMPORTANT: Please note that the predefined *default* layout **CommandKeyboard** cannot be overwritten.

Use the **drop-down button** on the right-hand side of the Save button to open a navigation window.

Row/column identifier

The **Row/column controls** can be used to select/identify the current key selection.

Key legend text box

The **key legend text box** is used to enter the legend for the selected key as displayed in the layout window.

Key colour selection drop-down box

The **key colour selection drop-down box** is used to select the colour for the highlighted key displayed in the layout window.

Only a small selection of default colours are available using this control.

Key assignment display window

Displays the current key code assigned to the highlighted key displayed in the layout window.

Special key assignment drop-down boxes

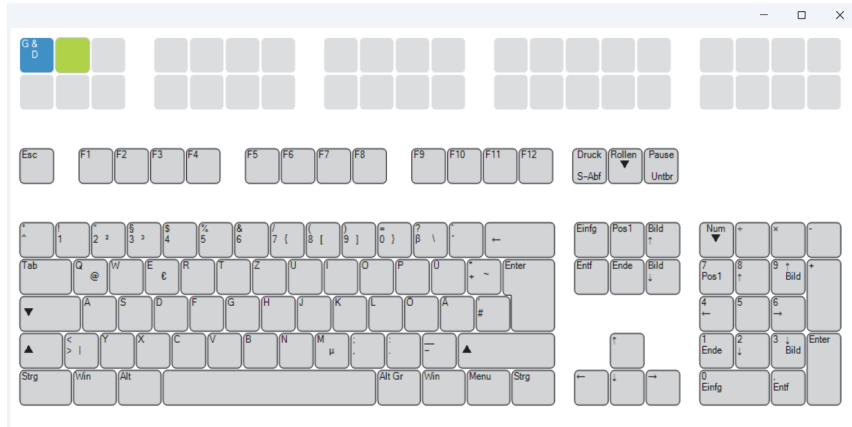
The **special key assignment controls** allow the assignment of key codes that are not normally present on a standard keyboard or are keys that are used for navigation i.e. cursor control keys.

Program All & Commit button

Programmes and commits the key assignments to the keyboard. Once programmed the new key assignments are ready to use.

Keyboard Layout

The keyboard layout window displays a representation of the keyboard including key styles, legends, and colours. Use the mouse to click on a key to select and display its assignments. The current selected key is highlighted in green.



Programming Guide

40 keys on the CommandKeyboard are configurable and can be assigned any code or key sequence (known as a macro).

IMPORTANT: Care should be taken when assigning key codes or macros to prevent any undesired effects.

ADVICE: It is recommended to use a secondary keyboard (standard layout, 104-key US, 105-key European) connected to the host system for assigning key codes.

Editing Layout

In the keyboard layout window (see *Keyboard Layout* on page 11), click on the key to be modified. The selected key will be highlighted in green.



Key Legend

To edit the legend, click in the *Legend Label text box* (see page 7) and enter the desired text. Each programmable key legend is limited to **6 characters**.

If the legend requires more than one line use the hyphen character (-) after the first line of characters to step on to the next line.

EXAMPLE: Print-Screen produces **Print** on the first line and **Screen** on the second line.

Up to 3-lines of text can be entered for each key legend.

Key Colour

To change a key top colour, click on the *Colour drop-down box* (see page 7) and select the desired colour from the list.

NOTE: The colour will **not** be visible on the selected key until another key is selected.

IMPORTANT: Remember to click the *Save button* (see page 7) to save layout changes.

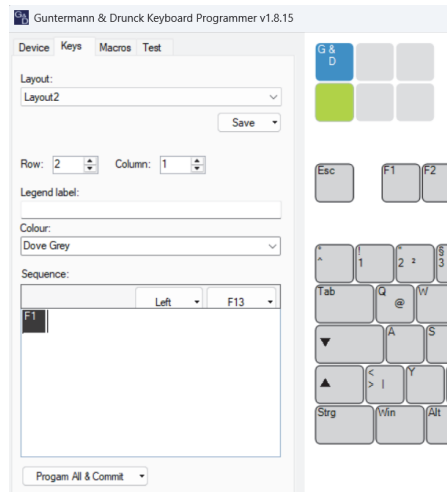
Key Assignment

To assign a key code or macro, in the keyboard layout window click on the key to be modified. The *key assignment window* (see page 7) will display the current key code or macro assign to the selected key.

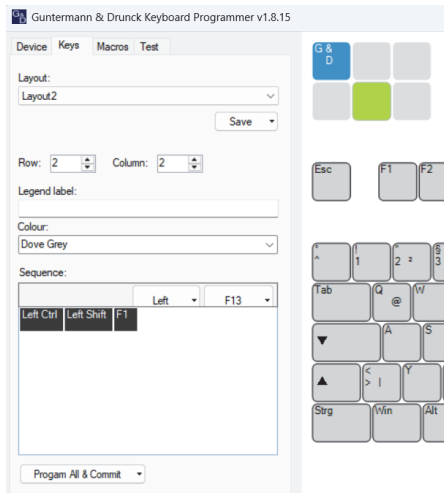
To change the assignment, first click in the *key assignment window*, then use the **Backspace** key to remove the current assignment. To enter the new assignment, press the required key(s). For a single key assignment just enter the single key required. To enter a key macro, press the required key sequence.

NOTE: The blue **G&D** key is assigned to the key code **<Control>**, **<Num>** by *default*. Using this key, the On-Screen Display (OSD) can be called up on a G&D console module in the *default* configuration.

Example: Assign function key F1 to key “Row: 2, Column: 1”



Example: Assign <Left Control>, <Left Shift>, <F1> to key “Row: 2, Column 2”



Use the *special key assignment drop-down boxes* (see page 7) to assign any of the cursor control keys (**Left**, **Right**, **Up**, **Down**, **Tab**, **Backspace**, **Add pause**) or extended function keys (**F13** to **F24**).

ADVICE: Once the key assignment has been completed, it is recommended to click the *Save button* (see page 7) to save the key assignments before proceeding.

If a key does not require an assignment i.e. output no key stroke, then in the *key assignment window* delete the current key assignment and leave blank. Once programmed the key will not output any key stroke or macro.

Programming and Committing

To commit the key assignments to the CommandKeyboard, click the **Program All & Commit** button (see page 7).

Once programmed, the new key assignments are immediately effective and can be checked by clicking on the *Test tab* in the *Tab selection bar* (see page 7).

If amendments to the key assignments need to be made, click on the *Keys tab* and make the necessary adjustments, remembering to save the changes before committing.

When all the assignments have been completed, exit the application and the CommandKeyboard is ready for use.

Technical data

COMMANDKEYBOARD SERIES		
Housing	Dimensions (W × H × D):	approx. 470 × 44 × 220 mm
Operational environment	Temperature:	0°C to +50°C
Storage environment	Temperature:	-10°C to +60°C
Conformity		CE, UKCA, FCC class B, TAA, RoHS, WEEE, REACH

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G&D. Control what you see.

Headquarters | Hauptsitz

Guntermann & Drunck GmbH Systementwicklung

Obere Leimbach 9 | D-57074 Siegen | Phone +49 271 23872-0
sales@gdsys.com | www.gdsys.com

US Office

G&D North America Inc.
4540 Kendrick Plaza Drive | Suite 100
Houston, TX 77032 | United States
Phone +1-346-620-4362
sales.us@gdsys.com

Middle East Office

Guntermann & Drunck GmbH
Dubai Studio City | DSC Tower
12th Floor, Office 1208 | Dubai, UAE
Phone +971 4 5586178
sales.me@gdsys.com

APAC Office

Guntermann & Drunck GmbH
60 Anson Road #17-01
Singapore 079914
Phone +65 9685 8807
sales.apac@gdsys.com