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Guntermann & Drunck
GmbH

UserCenter8

Operating Instructions

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INFORMATION

Warning

IN ORDER TO AVOID THE RISK OF AN ELECTRIC SHOCK THE DEVICE IS NOT TO BE OPENED OR THE COVERS NOT TO BE REMOVED.
IN CASE OF AN ERROR PLEASE CONTACT OUR TECHNICIANS.

BEFORE YOU TAKE THIS DEVICE INTO OPERATION PLEASE READ THE OPERATING INSTRUCTIONS CAREFULLY.
FOLLOW ALL THE WARNINGS OR OPERATING HINTS WHICH ARE ON THE DEVICE OR IN THE OPERATING INSTRUCTIONS.

KEEP THE OPERATING INSTRUCTIONS IN A SAFE PLACE FOR LATER USE.

POWER SUPPLY : USE THIS DEVICE ONLY WITH THE DELIVERED OR IN THE OPERATING INSTRUCTIONS DESCRIBED AC-ADAPTOR. CONNECT THIS DEVICE ONLY TO AN EARTHED VOLTAGE SOURCE.

VOLTAGE-FREENESS: MAKE SURE THAT THIS DEVICE IS VOLTAGE-FREE BEFORE INSTALLATION. PULL OFF THE POWER PLUG OR THE POWER SUPPLY.

CABLES: ONLY USE ORIGINAL G&D CABLES. DAMAGES WHICH SOURCE FROM THE USE OF FOREIGN CABLES ARE NOT INCLUDED IN THE WARRANTY REGULATIONS. AVOID TRUMPLE TRAPS WHEN LAYING THE CABLES.

VENTING SLOTS: VENTING SLOTS PREVENT AN OVEHREATING OF THIS DEVICE. DO NOT COVER THEM.

EXCLUSION OF WARRANTY: G&D DOES NOT TAKE OVER ANY WARRANTY FOR DEVICES WHICH

- WERE NOT USED ACCORDINGLY.
- WERE REPAIRED OR MODIFIED BY NON AUTHORIZED PERSONS.
- SHOW BIG OUTER DAMAGES NOT VISIBLE WHEN DELIVERED.
- WERE DAMAGED BY FOREIGN ACCESSORIES.
- G&D IS NOT RESPONSIBLE FOR CONSEQUENTIAL DAMAGE OF ANY KIND WHICH POSSIBLY COULD OCCUR WHEN USING THE PRODUCTS.

RANGE: THIS DEVICE IS CONSTRUCTED FOR THE USE IN THE INTERIOR. AVOID EXTREME COLDNESS, HEAT OR MOISTURE.

CONFORMITY: THIS DEVICE CORRESPONDS TO THE MAIN PROTECTIVE DEMANDS OF THE PROVISION FOR ELECTROMAGNETIC COMPATIBILITY (89/336/EWG) AND THE STANDARDS EN55022 CLASS B (1998), EN50082-1 (1992) AS WELL AS EN60950.

1 Description

UserCenter8 allows you to operate a single computer from either 2 or four different workplaces (monitor, keyboard, mouse).
Thus, the system makes an active contribution to reducing costs, energy and space for additional computers and allows for more efficient use of existing computers.
Several users are afforded comfortable, alternating access to a single computer.
The UserCenter works in the local area and at a distance of up to 10 meters.

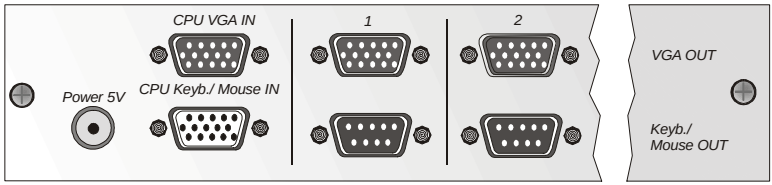
2 Scope of Delivery

- 1 x ***UserCenter 8***
- ***PC Set 20***
- ***PowerSet 9-1,7***
- Manual

3 Installation

Connection PC <-> UserCenter8:

- Disconnect monitor, keyboard and mouse connecting cables from the computer.



- Keyboard/mouse:
  Now connect both PS/2 connectors of the **KM-Y** module cables to the keyboard and mouse interface of PC 1. Both connectors have **corresponding symbols**.

- Monitor:
  Connect the video interface of the computer using the Y cable with the **UserCenter8** PC VGA In port.

- For connecting further computers proceed as described above.

Console installation:

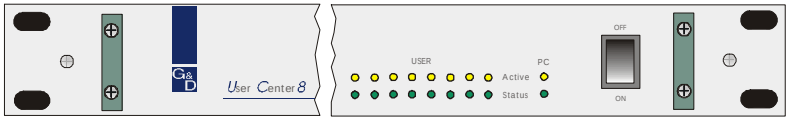
- For connection of your keyboard and mouse you need the Y-Dongle **UC-Y-01** (D-SUB 9pol. -> 2 x MD6/Bu (PS/2), order separatly). Connect **Keyboard** and **Mouse** with the free endings of the Y-Dongle **UC-Y-01**. Connect your **Monitor** with the interface **VGA OUT**.

- If the **UserCenter8** will be operated in combination with a **ControlCenter 4n/8n**, instead of the Y-Dongle **UC-Y-01** the cable UCC-20 is needed.

- When all connections to the **UserCenter8** are established, connect the power pack to the interface **„Power“**.

4 Switching on the units / LED displays

Switch on the User Center using the rocker switch on the front of the unit.



Once it has been switched on, the **UserCenter8** initializes the connected keyboards and mice. The User's green status LEDs light up and the LEDs on the keyboard flash.

At the same time, User 1's yellow active LED lights up.

When the PC is switched on, the green PC status LED lights up and the other user's active LEDs are switched on.

Should one of the workstations access the computer, this station only is identified by the yellow user active LED. The PC active LED also lights up.

Once the entry is complete, all user active LEDs light up again (each workstation can access the computer) and the PC active LED goes out.

5 Operation

The changeover between the active workstations is automatic. Should a workstation access the computer using the keyboard or the mouse, the other workstations are blocked for the duration of this access plus the set time-out period.

The time-out period, which is set by the manufacturer, lasts approximately 1 second. This period can, however, be extended to 90 seconds.

All of the connected monitors show the image of the connected computer at all times.

When none of the workstations accesses the computer, the UserCenter is released so that access can be afforded to every workstation.

5.1 Switching

The **UserCenter8** allows the selectable operation of the computer from 8 consoles.

In default both keyboards and mice are enabled.

As soon as at one of the consoles there is **keyboard or mouse action** keyboard and mouse of the other station are disabled.

After a time out of approx 1 second where there is no action the system is enabled again.

The time out between the switching can be adjusted to your needs (see chapter 6.10).

Both connected **monitors** show simultaneously the picture of the computer.

5.2 Manual Hold function

The **UserCenter8** makes it possible that one of the 8 consoles has access to the computer. This prevents that the system enables the other console after a preset time out of approx 1 second.

By pressing ***CTRL*** and ***PRINT*** the hold function is enabled.

The enabled hold function is indicated

- by the slowly flashing keyboard LED "**Scroll Lock**" at the console where the hold function was enabled.
- by the fast flashing keyboard LED "**Scroll Lock**", the disabled **ACTIVE LED LOCAL** and the enabled **ACTIVE LED CPU** at the console which was locked by the hold function.

The hold function will be enabled by pressing ***CTRL*** and ***PRINT*** again and the LED ***SCROLL-LOCK*** of the keyboard will be switched off. After this the automatic switch (as described in chapter 5.1) will be enabled again.

Notice: If you have activated the double-hotkey (see chapter 6.8) you have to press the defined double-hotkey for activating the manual hold function.

In default the manual hold function for both consoles is released. If you intend to lock the hold function or only release it for one console proceed as described in chapter 6.4.

5.3 GET function

The GET-Function allows, that either the local or the remote work station can use the computer exclusivly.

In the initial state of the GET-Function each connecetd consoles are blocked (no keyboard and mouse action possible).

By triggering the keyborad-combination ***CTRL*** und ***PRINT,*** the releasing station receives full keyboard and mouse access. Against that, the inactive console remains blocked. The GET-function is indicated by flashing of the yellow **ACTIVE PC LED** at the **UserCenter8.**

Additionally, the GET function will be indicated by:

- Flashing LED SCROLL-Lock on the keyboard, visible at the initating console
- rapidly flashing LED SCROLL-Lock on the keyboard, which has been blocked by the hold function

The automatic hold function will be deactivated by pushing the ***CTRL***-Key and ***PRINT***-Key in combination and the **SCROLL-LOCK-LED on the keyboard** stop flashing. After this the automatic changeover as described in chapter 5.1 is enabled again.

Default: The manual hold-function is enabled. If you wish to disable the manual hold function, proceed as described in chapter 6.5.

6 Setup Mode

With the setup mode you can adapt **UserCenter8** exactly to your individual needs. The following settings can be done via keyboard:

- **Establishing the default condition**
- **Changing the keyboard scan code**
- **Enabling the hold function**
- **GET function**
- **Transmission of GDFrames**
- **Defining the double hotkey**
- **Setting the hotkey**
- **Time-out for automatic switch (local/remote)**
- **Automatic mouse-enable**
- **Automatic mouse-reset**
- **Support for the serial Logitech mouse**
- **Mouse-enable**
- **Mouse-reset**

The settings can be done via keyboard. Mouse action during this procedure is not possible.

The following chapters describe how these settings are activated.

6.1 Default Settings

In default **UserCenter8** has the following settings:

- Keyboard scan code **2**
- Hold function **On**
- Transmission of GDFrames **On**
- Defined hotkey **CTRL**
- Double hotkey **Off**
- Time-out for auto switch **1 Second**
- GET function **Off**
- Automatic mouse-enable **Off**
- Automatic mouse-reset **Off**
- Support for serial Logi mouse **Off**

6.2 Establishing the default condition

To establish the default condition proceed as follows:

Call up the setup mode with ***CTRL*** + ***BACKSPACE***
The setup mode will be indicated be the flashing of the three keyboard LEDs (NUM-Lock, CAPS-Lock, SCROLL-Lock).

Press the key ***D***

The default condition is established and the setup mode will be closed automatically. The keyboard LEDs stop flashing.

You can always stop the entry by pressing ***ESC***.

6.3 Changing the keyboard scan code

A change of this setting should only be done as agreed with the G&D service.

With this setting the scan code for intializing the keyboard is defined.

To change the keyboard scan code proceed as follows:

- Call up the setup mode with ***CTRL*** + ***BACKSPACE***
  The setup mode will be indicated by the flashing of the three keyboard LEDs (NUM-Lock, CAPS-Lock, SCROLL-Lock).

- For scan code 2 press key ***2***
- For scan code 3 press key ***3***

After pressing one of the keys for the scan code the setup mode will be closed automatically. The keyboard LEDs stop flashing.

The changes in setting will first be activated after a restart (voltage free) of the computer.

You can always stop the entry by pressing ***ESC***.

6.4 Manual hold function

With this setting you define whether the user can start the hold function with ***CTRL*** + ***PRINT*** or not.

For enabling the manual hold function you proceed as follows:

- Call up the setup mode with ***CTRL***+ ***BACKSPACE***
  The setup mode will be indicated by the flashing of the three keyboard LEDs (NUM-Lock, CAPS-Lock, SCROLL-Lock).
- For enabling press ***X***
- To **disable** the manual hold function again press ***C***

After the manual hold function is enabled/disabled the setup mode will be closed automatically. The keyboard LEDs stop flashing.

You can always stop the entry by pressing ***ESC***.

6.5 GET function

With this setting you define whether the GET function will be activated or not.

For activating the GET function proceed as follows:

- Call up the setup mode with ***CTRL*** + ***BACKSPACE***
  The setup mode will be indicated by the flashing of the three keyboard LEDs (NUM-Lock, CAPS-Lock, SCROLL-Lock) angezeigt.
- For enabling press ***J***
- To **disable** the automatic hold function again press ***K***

After the GET function is enabled/disabled the setup mode will be closed automatically. The keyboard LEDs stop flashing.

You can always stop the entry by pressing ***ESC***.

Note: When double hotkeys are enabled (**see chapter 7.8**), the defined double hotkeys has to be pressed for calling up the setup mode.

6.6 Transmission of GDFrames

A change of this setting should only be done as agreed with the G&D service.

For transmitting GDFrames proceed as follows:

- Call up the setup mode with ***CTRL*** + ***BACKSPACE***
- For transmission press ***G***
- To **disable** transmission again press ***H***

After the transmission of GDFrames is enabled/disabled the setup mode will be closed automatically. The keyboard LEDs stop flashing.

You can always stop the entry by pressing ***ESC***.

6.7 Defining the double hotkey

With this setting you define whether one or two hotkeys are necessary for calling up a function.

For this setting you proceed as follows:

- Call up the setup mode with ***CTRL*** + ***BACKSPACE***
- To enable double hotkeys press ***A***
- To **disable** hotkeys again press ***S***

6.8 Setting the HotKeys

With this setting you define the hotkey for calling up *Setup* and the *hold function.*

To change the hotkeys proceed as follows:

- Call up the setup mode with ***STRG*** + ***BACKSPACE***
- The setup mode will be indicated by the flashing of the three keyboard LEDs (NUM-Lock, CAPS-Lock, SCROLL-Lock).

The following keys are available

Hotkey Combination	Will be activated by:
Ctrl (+ ***Shift***)	***Ctrl***
Alt (+***Shift***)	***Alt***
Alt Gr (+ ***Ctrl***)	***Alt Gr***
Windows (+ ***Ctrl***)	***Windows***
Shift (+ ***Windows***)	***Shift***

Note: The terms in brackets are only relevant for the double hotkeys!

After pressing the keys for your individual hotkey the setup mode will be closed automatically.

The keyboard LEDs stop flashing.

You can always stop the entry by pressing ***ESC***.

Warning: After changing the hotkey you have to call up the setup and the hold function with the changed hotkey!

6.9 Time-out for automatic switch

With this setting the time-out for the automatic switch between the local and the remote console is defined.

To change the time-out for the automatic switch proceed as follows:

Call up the setup mode with ***CTRL*** + ***BACKSPACE***

You can choose between the following values of time-out:

Time-out	Key
10 sec.	***F 5***
15 sec.	***F 6***
20 sec.	***F 7***
30 sec.	***F 8***
45 sec.	***F 9***
60 sec.	***F 10***
90 sec.	***F 11***
1 sec.	***F 12***

After selecting the time-out value the setup mode will be closed automatically. The keyboard LEDs stop flashing.

You can always stop the entry by pressing ***ESC***.

6.10 Automatic mouse-enable (standard mouse driver)

With this setting you define whether the mouse emulation sends data to the computer even if the computer has not given an enable. This only works with a standard mouse.

For enabling the automatic mouse-enable proceed as follows:

- Call up the setup mode with ***CTRL*** + ***BACKSPACE***
  The setup mode will be indicated by the flashing of the three keyboard (NUM-Lock, CAPS-Lock, SCROLL-Lock).
- For enabling press ***Q***
- To **disable** the mouse-enable again press ***W***

After enabling/disabling the automatic mouse-enable the setup mode will be closed automatically. The three keyboard LEDs stop flashing.

You can always stop the entry by pressing ***ESC***.

6.11 Automatic mouse-reset

With this setting you define whether **UserCenter8** sends a mouse-reset to the computer during the switch-on or not (does not work with Unix computers).

For enabling the automatic mouse-reset proceed as follows:

- Call up the setup mode with ***CTRL*** + ***BACKSPACE***
  The setup mode will be indicated by the the flashing of the three keyboard LEDs (NUM-Lock, CAPS-Lock, SCROLL-Lock).
- For enabling press ***T***
- To **disable** the automatic mouse-reset againg press ***Z***

After enabling/disabling the automatic mouse-reset the setup mode will be closed automatically. The keyboard LEDs stop flashing.

You can always stop the entry by pressing ***ESC***.

6.12 Support for the serial Logitech mouse

With this setting you define whether to connect a Logitech or an Intelli mouse to the serial interface (V.24).

For supporting the serial mouse proceed as follows:

- Call up the setup mode with ***CTRL*** + ***BACKSPACE***
  The setup mode will be indicated by the flashing of the three keyboard LEDs (NUM-Lock, CAPS-Lock, SCROLL-Lock).
- For the support press ***O***
- To **disable** the support again press ***P***

After the mouse support is enabled/disabled the setup will be closed automatically. The keyboard LEDs stop flashing.

You can always stop the entry by pressing ***ESC***.

6.13 Mouse-enable (manually)

With this function you can manually establish a mouse-enable (on other Operating Systems than Windows).

For the manual mouse-enable proceed as follows:

- Call up the setup mode with ***CTRL*** + ***BACKSPACE***
  The setup mode will be indicated by the flashing of the three keyboard LEDs (NUM-Lock, CAPS-Lock, SCROLL-Lock).

Then press the corresponding key:

Used mouse driver	Key
Enable for standard mouse driver	***M***
Enable for Intelli driver	***I***
Enable für Intelli Explorer driver	***E***

After having set the manual mouse-enable the setup mode will be closed automatically. The keyboard LEDs stop flashing.

You can always stop the entry by pressing ***ESC***.

6.14 Mouse-reset (manually)

Choose FUNCTION on your Windows operating system;
Independend from the selected mouse driver.

This is for:
WIN 98, WIN NT, WIN ME, WIN 2000, WIN XP.

With this function a manual mouse-reset can be set.

For the manual mouse-reset proceed as follows:

- Call up the setup mode with ***CTRL*** + ***BACKSPACE***
  The setup mode will be indicated by the flashing of the three keyboard LEDs (NUM-Lock, CAPS-Lock, SCROLL-Lock).
- For **disabling** the manual mouse-reset again press ***R***

After the manual mouse-reset is enabled/disabled the setup mode will be closed automatically. The keyboard LEDs stop flashing.

You can always stop the entry by pressing ***ESC***.

7 Specifications

Interfaces:

Monitor: - input HD 15 pole socket
- output HD 15 pole SUB socket

Transmittable signals: analog color graphics signals,
R, G, B, H sync, V sync,
Sync. in green, composite Sync.

Keyboard/Mouse : - HD 15 pole socket
-output 6 pole mini DIN (PS/2) socket

Resolution:
max. 1600 x 1200 > 85 Hz

Power supply:
Power supply unit, prim. 0 – 240 V, sec. 9 V

Housing:
Desk-top casing 270 x 45 x 205 UserCenter 8
(W x H x D)

Transmission length:
Local area (up to approx. 10 m)

Options:
Remote operation over a distance of up to 250 meters in combination with video, keyboard and mouse extension; *VKM system; CATVision system*

Combination with miniMUX 2 (4) , CC1/plus, CC4 for alternating operation of up to 96 PC

Housing dimensions:
(W x H x D in mm)

CATVision CPU 210 x 44 x 210 (19" / 1HU)

CATVision CON 210 x 44 x 210 (19" / 1 HU)

Transmission cable: CAT 5 or higher

Power supply External AC adapter
100 – 240 V primary, 9 V secondary, 1700 mA

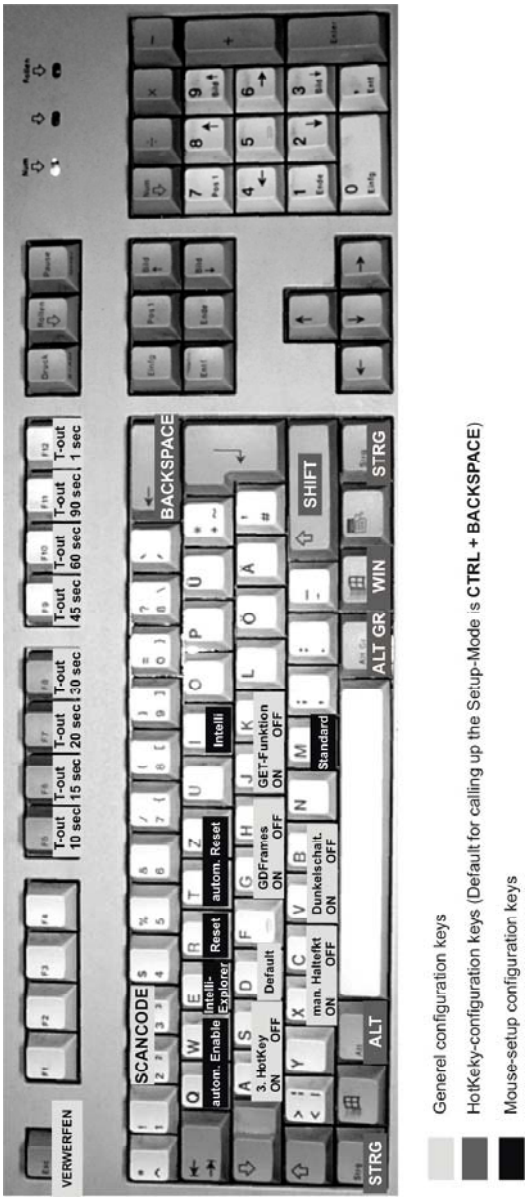
Temperature range: 0 – 40° C

8 Appendix

8.1 Key Seizure SETUP Mode

Setting	Configuration key	Chapter
CALLING UP THE SETUP MODE	**CTRL + BACKSPACE**	6
Establishing the default condition	**D**	6.2
Selecting the keyboard scan code	**2 = scan code 2** **3 = scan code 3**	6.3
Manual hold function	**X = Enable** **C = Disable**	6.4.
GET function	**J = Enable** **K = Disable**	6.5
Transmission of GDFrames	**G = Enable** **H = Disable**	6.7
Defining the double hotkeys	**A = activate** **S = disable**	6.8
Setting the hotkeys	**CTRL = CTRL (+ SHIFT)** **ALT = ALT (+ SHIFT)** **ALT GR = ALT GR (+ CTRL)** **WINDOWS = WINDOWS (+ CTRL)** **SHIFT = SHIFT (+ WINDOWS)**	6.9
Time-out for automatic switch	**F5 = 10 seconds** **F6 = 15 seconds** **F7 = 20 seconds** **F8 = 30 seconds** **F9 = 45 seconds** **F10 = 60 seconds** **F11 = 90 seconds** **F12 = 1 seconds**	6.10
Automatic mouse-enable	**Q = Enable** **W = Disable**	6.11
Automatic mouse-reset	**T = Enable** **Z = Disable**	6.12
Mouse enable (enable)	**M = standard driver** **I = Intelli driver** **E = Intelli-Explorer driver**	6.14
Maus reset (manually)	**R**	6.15
Closing the setup mode without change	**ESC**	

8.2 Key Seizure / SETUP Mode



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