

HMI device SUT50

User Manual

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General information

1 Safety

- Prior installation, maintaining, transporting, or storing this product, read the safety advices for this product, as well as the entire manual
- Pay attention to the warnings in the following chapters
- Keep this document for later use or when passing the device to someone else
- Respect local safety standards or laws for planning, installation, operation, and proper disposal of the product

1.1 Symbol meaning

	Dangerous situation
	Useful information

1.2 Meaning of signal words

The severity of a hazard is determined by the selected signal word. The following signal words will be used in case of corresponding hazard is to be expected:

Signal word	Meaning
Danger	Indicates a hazardous situation which, if not avoided, will result in death or serious injury.
Warning	Indicates a hazardous situation which, if not avoided, could result in death or serious injury.
Caution	Indicates a hazardous situation which, if not avoided, could result in minor or moderate injury.

1.3 Authorized persons



Warning

Danger of life for persons without insufficient qualification

- Only skilled personnel are allowed to work on the device!
- Disregarding this can cause death, serious injury, or considerable property damage.

This document does exclusively address the following target groups:

- installer
- maintainer

Qualification	Function
Has expert knowledge in the field of electric installations and knows electrical hazards of any kind.	Set-up the product Maintain the product Dismantle the product

Comply with the appropriate safety regulations for low voltage systems, especially general safety and installation regulations.

1.4 Device-specific advices



Warning

Danger of life by electric shock

The interior of the power supply contains energized conductors.

- Do not open the power supply!
- Disregarding this can cause death, serious injury, or considerable property damage.

- Comply with the environmental conditions specified by the manufacturer
- Modifications of the device are only allowed as far as they are mentioned in this document or explicitly allowed by the manufacturer
- Use only spare parts and accessories approved by the manufacturer
- The device may only be operated when dry and undamaged
- High temperature variations can cause accumulation of moisture inside the device (e.g. after transport). Power-on the device only after the temperature of the device is adapted to room ambient temperature

Electrostatic Discharge

Electrostatic discharge can damage or destroy components

- Do not touch parts at risk (e.g. contacts of plugs)
 - Before touching a device, discharge your body electrostatically (e.g. by touching a grounded metallic object)
-

1.5 Electromagnetic compatibility (EMC)

This product is designed for use in general CCTV-applications at living, business or industrial environments. Please contact your supplier, if you want to install this device in medical and/or intrinsically environment.

The product has to be installed according to your local current valid installation regulations, in order to ensure secure operation and to prevent EMC caused disturbances.

1.6 Declaration of conformity of the manufacturer

EU Directive

The product described in this manual is compliant to following EU directives:

Directive 2014/30/EU „electromagnetic compatibility“ and Directive 2014/35/EU „low voltage directive“ in accordance with EN 60950-1.

EC declarations of conformity for responsible administrations are available at:

PELWECKYJ Videotechnik GmbH

Güterstraße 2

D-64807 Dieburg

2 Ordering data

Order reference	Former Siemens No.	Product	Weight (ca. kg)
SUT50		HMI device SUT50 in a housing with 41 Buttons and Analog-Joystick for Videomatrix	1.5
Accessories			
9-911	2GF1800-8BE	Power supply for external supply of HMI devices, 230 V, 50 Hz/DC 12 V, 640 mA, for interior usage, with 2 m DC-cable with open ends	0.53
Custom build		Mount for SUT50 to be assembled into a 19-inch-rack	
VMT-AK03 VMT-AK07 VMT-AK10	2GF2207-8AE 2GF2207-8AF 2GF2207-8AG	- 3 m connection cable for HMI device - 7 m connection cable for HMI device * - 10 m connection cable for HMI device * * Connect RS232 with a maximum of 5 meter cable	

3 Features

The HMI device is a keyboard with joystick and display for controlling videomatrix systems. It is compatible with the SIMATRIX series and VM1000.

The analogue joystick allows control the movement speed of cameras relative to its angle via a videomatrix.

The device is configured with key input and joystick or optionally with a configuration software via LAN.

A variety of interfaces allows the connection to most different infrastructures.

The robust powder-coated metal housing in a timeless and modest design is suitable for rough environments just as for prestigious foyers. With optional accessory the HMI device can be flush-mounted, as well.

Individual features:

- HMI device with 41 buttons and multifunctional analogue joystick
- Serial interfaces: RS232, TTY, RS485 (full duplex)
- Ethernet-Connector (RJ-45 jack) for remote operation via LAN
- Remote current via LAN (PoE)
- Alphanumerical LC-display and function display
- Replaceable and freely designable inlays for button layout (designable in MS-Word)
- In cooperation with a SIMATRIX videomatrix there are 40 freely configurable Buttons available
- Optical and acoustical alert report
- separate password protection for users and configuration

4 Setting-up for operation

4.1 Power supply

- The wall power supply is only provided for operation in TN networks (according to VDE 0100, part 300 or EN 60950-1). For safe operation the device must be protected by an external overcurrent protection rated no more than 16 A.
- The supplied wall power supply can be connected to electrical supplies with voltages of 100 to 240 VAC (+10% / -15%) at 50/60 Hz
- Only use wall plug adapters or wall power supplies complying with local permissions or regulations

4.2 Environmental Conditions

- Comply with the environmental conditions specified by the manufacturer
 - operating temperature: + 5°C to 45°C
 - relative humidity: 30 to 85 %, non-condensing
- Protect the device from moisture and fluids
- Do not expose the device to direct thermal radiation (e.g. heating devices)
- Do not operate the device in very dusty environments
- Do not operate the device in the neighbourhood of a strong source of electromagnetic waves
- Do not expose the device to mechanical shocks

4.3 Interface configuration

The interfaces TTY, RS485 and RS232 are available for operating the device. To change the Interface, device must be opened to replug 5 jumpers.

Follow the instructions to change the interface:

- Remove the lateral cover
- Disconnect the 5 jumpers currently installed
- Reconnect the 5 jumpers to the desired interface jumperblock regarding the labelling
- The following illustration shows the configuration for TTY-Interface usage:

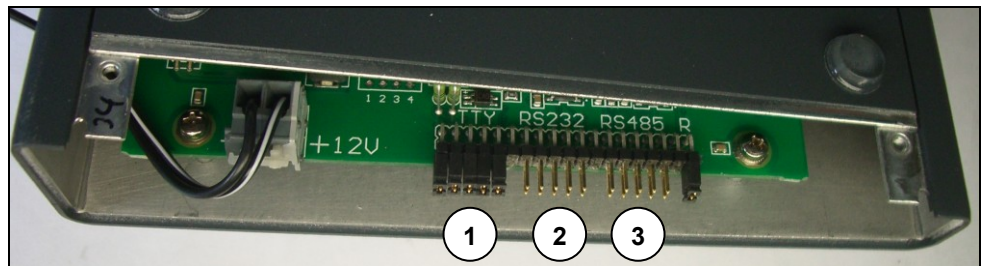


Fig. 1 Jumperblocks for interfaces:

1	TTY
2	RS232
3	RS485

RS485-Termination:

Next to the RS485 jumper block a single jumper for the RS485 termination is located. This jumper must be removed when multiple SUT50 in the configuration of RS485 are connected together to a common interface-cable.

4.4 Pin mapping for Sub-D connector



Fig. 2 9-pole Sub-D-Connector

The mapping of the 9-pole Sub-D connector depends on the configured interface (see also *Interface configuration*)

The following table shows the possible pin mapping:

Pin	TTY *	RS485	RS232 **
1	TTY-OUT+	TxD+	n.c
2	TTY-OUT-	TxD-	TxD
3	TTY-IN+	RxD+	RxD
4	TTY-IN-	RxD-	n.c
5	n.c.	n.c.	GND
6	GND DC	GND DC	GND DC
7	12V DC	12V DC	12V DC
8	n.c.	n.c.	n.c.
9	n.c.	n.c.	n.c.

* For TTY-operation with a VKS648 or VKS164, power supply has to be electrically isolated from ground!
 ** RS232 cable length is 5m maximum

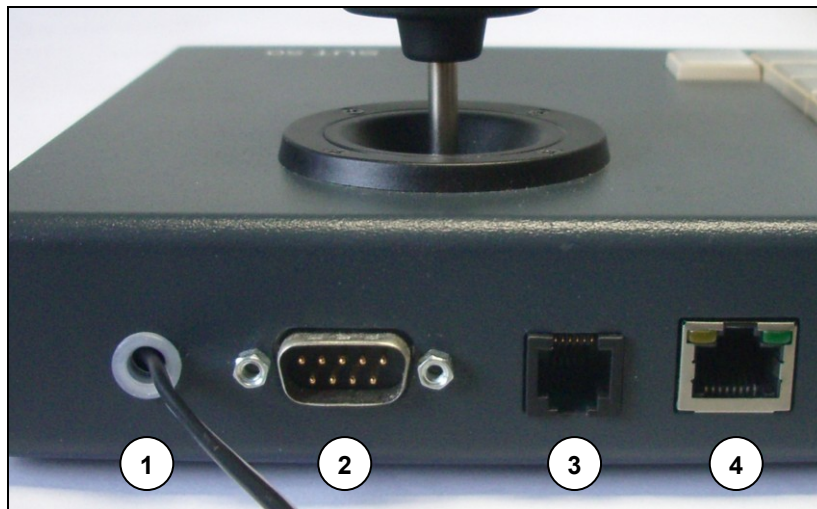


Fig. 3 Connectors

1	Feed-through for power supply
2	Sub-D connector
3	6-pole modular connector
4	LAN connector

4.5 Pin mapping of modular connector

The 6-pole Modularjack on the backside of the device is wired parallel to the 9-pole Sub-D-Connector and designated for connection on the Videomatrix-System SIMATRIX NEO. Only one jack should be connected at a time.

Pin	TTY	RS485	RS232*
1	GND	GND	GND
2	TTY-OUT-	TxD-	RxD
3	TTY-OUT+	TxD+	TxD
4	TTY-IN-	RxD-	n.c.
5	TTY-IN+	RxD+	GND
6	12 V DC	12 V DC	12 V DC

* RS232 must not be connected on a cable longer than 5 meters

4.6 Power supply terminal clamps

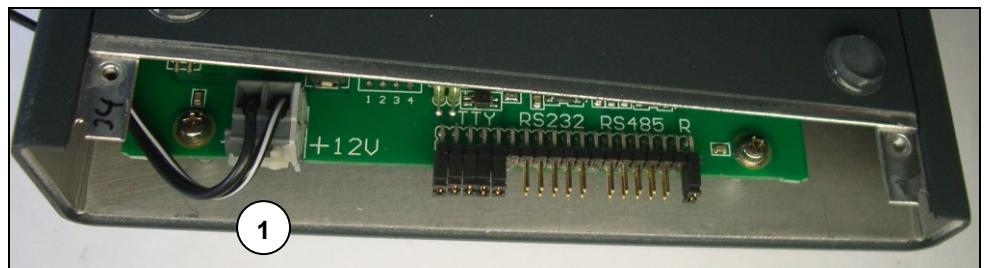


Fig. 4 Terminal clamps

1	Terminal clamps
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Connecting an external power supply is not needed when videomatrix can supply the HMI device (see mapping of TTY interface) or a PoE LAN connection is used.

Videomatrix VKS648 can supply power for two SUT50, SIMATRIX NEO not more than four devices. VM1000-CPU is capable to provide power supply for all 16 connectable devices.



Do not exceed maximum load of videomatrix by powering more SUT50 than described above!

In all other cases the attached external wall power supply can be used, which is connected to the 9-pole Sub-D connector. If the Sub-D connector is already in use the power supply can be connected to the internal terminal clamps. (see Fig. 4)

5 Mounting advices

5.1 Operating modes

Together with other peripheral equipment the SUT50 is capable of a variety of configurations and operating modes.



Not all configurations and operating modes can be described here in detail. Please refer to the instruction manuals of the connected peripheral equipment to achieve the most efficient and secure solution.

5.2 Overview

The following table provides an overview for the most important operating modes of the SUT50:

Interface	Operating Mode	Periphery	Recommended configuration
LAN	SIMATRIX LAN	SIMATRIX SYS Server	Ethernet
LAN	SIMATRIX via Router	SUT50 as Console Router	Ethernet
Serial (TTY)	SIMATRIX-Polling-Mode	SIMATRIX	„TTY-Slave“ 2400 Baud
Serial (RS232)	SIMATRIX Master-Mode	SIMATRIX	„TTY-Master“ 2400 or 9600 Baud

5.2.1 Controlling a Siemens videomatrix

The HMI device SUT50 can be connected via TTY-interfaces „Term 1“ to „Term 8“ (depends on type and upgrading) as well as via RS232-Interfaces „COM2“ to „COM4“.



In RS232 mode the HMI device SUT50 has to be supplied by a separate power supply

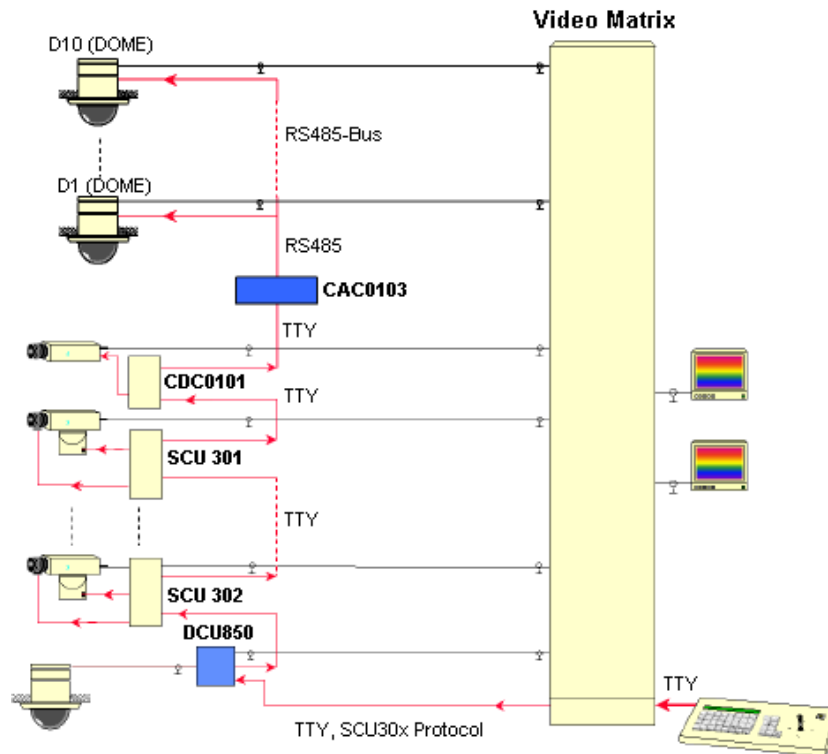


Fig. 5 Controlling a Siemens-Videomatrix

5.3 Ethernet mode

With Ethernet mode a SUT50 can be connected via LAN interface with a Videomatrix SIMATRIX NEO or SIMATRIX SYS.

Communication utilizes the UDP/IP protocol and port 7000. The IP address is arbitrary.

The UDP/IP protocol is characterized by minor delays and the avoidance of time-consuming connection establishment. The UDP protocol underlying ethernet protocol layer prevents failures, for example caused by packet collision. It is protected by CRC error check and has equal or higher transport safety than SIMATRIX protocol via V24 or TTY interface.

5.3.1 Connection state

If a connection between the HMI device and the server or console router is established the green LED lights constantly. If the connection is interrupted the LED flashes (with a delay up to 30 seconds, so the interruption is not indicated instantly)

If an IP address conflict occurs the LED flashes red. Please verify that the IP address of the device is not used already.

5.3.2 Network topology

It is possible to use the SUT50 in existing network-infrastructures like offices, where PCs are connected as well.

Please be aware of delays that may occur when the network traffic is charged with large amount of data. This affects both directions of communication of the SUT50 - sending and receiving data.

5.3.3 Network router

A connection via network router is possible. Although in this case the HMI device can not detect a physically interrupted connection to the server and thus will not indicate this failure by LED.

6 Joystick

The multifunctional Joystick control the cameras angles (swing, tilt) as well as focus and zoom adjustment one handed. Focus and zoom are furthermore adjustable with buttons of the SUT50.

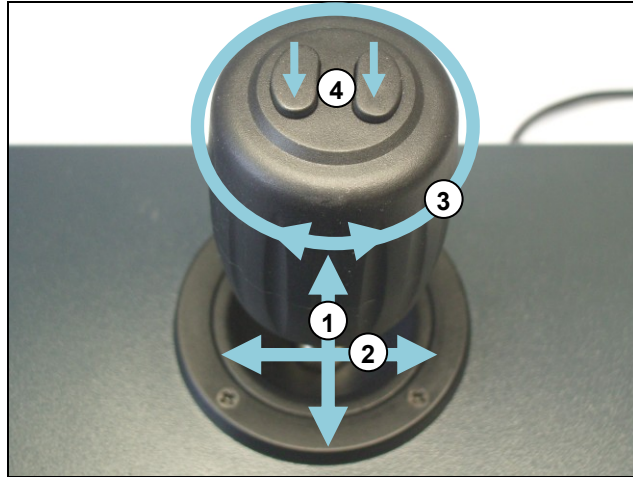


Fig. 6 Joystick functions and control

Position	Action	Effect
1	forwards / backwards	tilt camera
2	left / right	swing camera
3	turn	zoom in / out
4	buttons	focus

7 Configuration

This section contains information for following issues:

- Configuration of the SUT50 via configuration menu
- Configuration of the SUT50 by PC via LAN using VmnetCfg2.exe
- Possible configurations



While configuring the SUT50, communication to server and videomatrix is interrupted.

7.1 Internal configuration menu

The HMI device has a menu guided configuration.

Use the Joystick to navigate through the configuration menu, which is shown on the display.

The configuration menu contains 15 menu items. Some menu items have predefined options, some can be edited and others can only be displayed.

The following overview shows the content of the configuration menu in the same sequence as they are displayed on the HMI device.

Move the joystick forward and backward to scroll through the menu items and select the item for configuration with a rightward movement.

7.1.1 Open and close configuration menu

Open and close the configuration menu as follows:

- Hold down shift-button (individual button in the bottom right corner)
- Relay-1 button (Button in the upper left corner of the seperated key block) for at least 3 seconds



Fig. 7 Keystroke combination to open / close the configuration menu



While in configuration mode every key- and joystick activity is indicated with a audible click-sound.

7.1.2 Overview configuration menu

Menu items	Options	Explanation
communicat. mode	ethernet	Operating the SUT50 in LAN (factory setting)
	serial master	TTY, self-active mode
	serial slave	TTY, polling mode
console number	01	Address of the device (factory setting)
joystick mode	proportional	Joystick with VariSpeed protocol (factory setting)
	digital	Joystick, on / off Mode
serial baudrate	2400	Baudrate of serial Interface (factory setting)
	19200	
	9600	
	4800	
local IP address	192.168.000.041	IP-address of the HMI device (factory setting)
host IP address	192.168.000.031	IP-address of the server (factory setting)
gateway address	192.168.000.001	IP-address of the gateway (factory setting)
netmask	255.255.255.000	Netmask (factory setting)
save changes	... saved	Save settings
abort changes	... aborted	Abort and discard changes
factory defaults	... loaded	Load factory settings
software version	2013-01-14 v023	Software date and version
MAC address	MAC 000019192315	MAC-Address of the network adapter
user password	****	User-PIN. Factory settings: 0000 (deactivated)
admin password	****	Configuration-PIN. Factory settings: 0000 (deactivated)

Tab. 1 Configuration menu of the HMI device SUT50

7.1.3 Device- and IP address configuration

In following way you configure the menu items **console number**, **local IP address**, **host IP address**:

- Open the configuration menu and navigate to the desired menu item by moving the joystick forward / backward.
- When the desired menu item is displayed, move the joystick right to select the value you want to change. This value flashes.
- Use the numeral keys of the SUT50 to enter the desired value. (After entering a number the next number begins to blink automatically and will be changed next).

or

chose the desired number by moving the joystick forward or backward.

If necessary, select and change further numbers.

- If the value is completely entered, return to the menu items by moving the joystick leftward.
- To save the configuration navigate to the menu item **save changes** and perform the saving by moving the joystick rightward.
 - After saving the configuration menu will be left automatically.
- In case changes are not supposed to be saved, select the menu item **abort changes** and confirm with a rightward joystick movement or leave the configuration menu with the keystroke combination from chapter 7.1.1.



Unsaved changes will be discarded when leaving the configuration menu. In this case the previous configuration will be maintained.

7.1.4 Set up communication mode, joystick mode and baudrate

Follow these steps to edit the menu items **communicat. mode**, **joystick mode**, **serial baudrate**, **user password** und **admin password**:

- Open the configuration menu and navigate to the desired menu item by moving the joystick forward / backward.
- When the desired menu item is displayed, move the joystick right to navigate to the option pick list.
- Chose the desired option by moving the joystick forwards / backwards.
- Return to the menu item by moving the Joystick leftward.
- To save the configuration navigate to the menu item **save changes** and perform the saving by moving the joystick rightward.
 - After saving the configuration menu will be left automatically.
- In case changes are not supposed to be saved select the menu item **abort changes** and confirm with a rightward joystick movement or leave the configuration menu with the keystroke combination from chapter 7.1.1.



Unsaved changes will be discarded when leaving the configuration menu. In this case the previous configuration will be maintained.

7.1.5 Enable / Disable PIN

When **admin password** is enabled, the access to the configuration menu is denied and only accessible by entering the correct PIN. Furthermore remote servicing is not possible under that condition (see Chapter 7.2). Configuration can be displayed but not changed.

The **user password** blocks the normal operation mode. Only after entering the PIN keyboard and joystick are accessible. With the key combination *Shift + both joystick buttons* the HMI device can be blocked at any time.

Follow these steps to activate a PIN:

Choose the desired menu item in the configuration menu and enter a number consisting of 4 digits (but not „0000“). After saving (menu item **save changes**) this PIN is active.

Follow these steps to deactivate a PIN:

Choose the desired menu item in the configuration menu and enter „0000“ (four times zero) After saving (menu item **save changes**) access is possible without a PIN.



Important: PIN input is only possible when the numeral block matches one of the two keyboard layouts from Chapter 11.2.



Unsaved configured values and PINs are discarded when leaving the configuration menu. In this case the last configuration and PIN remains valid.

7.1.6 Factory Reset

Follow these steps to restore factory settings under menu item **factory defaults**:

- Open the configuration menu and navigate to the menu item **factory defaults** by moving the joystick forward / backward.
- When the desired menu item is displayed, move the joystick right to restore the factory settings.
- Return to the configuration menu by moving the joystick leftward.
- To save the configuration navigate to the menu item **save changes** and perform the saving by moving the joystick rightward.
 - After saving the configuration menu will be left automatically.
- In case changes are not supposed to be saved select the menu item **abort changes** and confirm with a rightward joystick movement or leave the configuration menu with the keystroke combination from chapter 7.1.1.

7.2 Configuration via PC

Alternatively to the implemented configuration menu the SUT50 can be configured from a PC via LAN-Interface. Therefore the program VmnetCfg2.exe is required, which must be executed on a Windows®-PC.

Configuration via LAN requires furthermore that the IPs of the PC and the SUT50 are in the same network segment. Since that is most often not the case it is advisable to configure the IP address of the SUT50 with the implemented configuration menu first.

The configuration capabilities from VMnetCfg2.exe vary from the implemented configuration menu in some aspects:

- Passwords (PINs) can only be set and changed via implemented configuration menu.
- Configuration of redundancy operation and changing describing text of SUT50 are possible via PC configuration, only

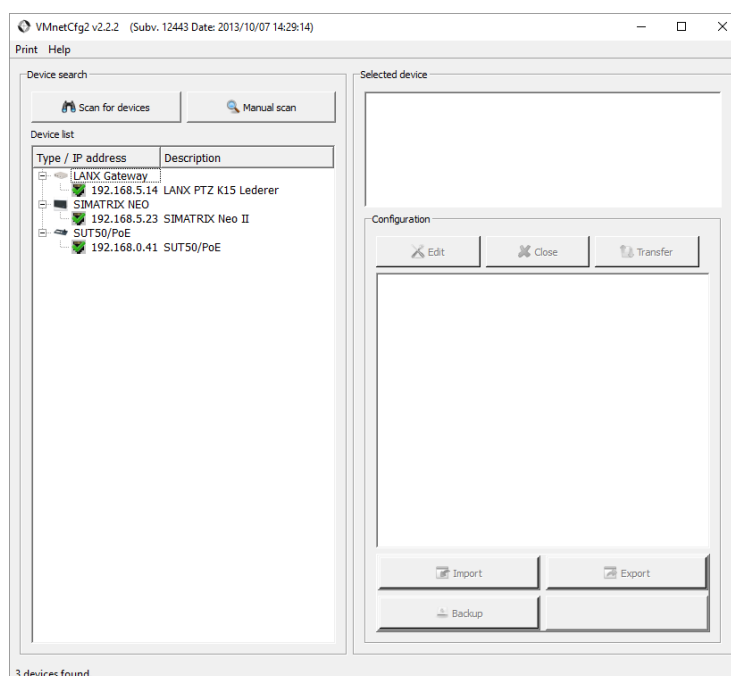
7.2.1 Instructions for configuration with VMnetCfg2.exe

The Program VMnetCfg2.exe is available on the Support-CD.



The integrated Help-Menu offers further information to handle the program. For configuration the the configuration-PIN of the SUT50 should be deactivated. (see Chapter 7.1.5).

The program starts with the following screen:



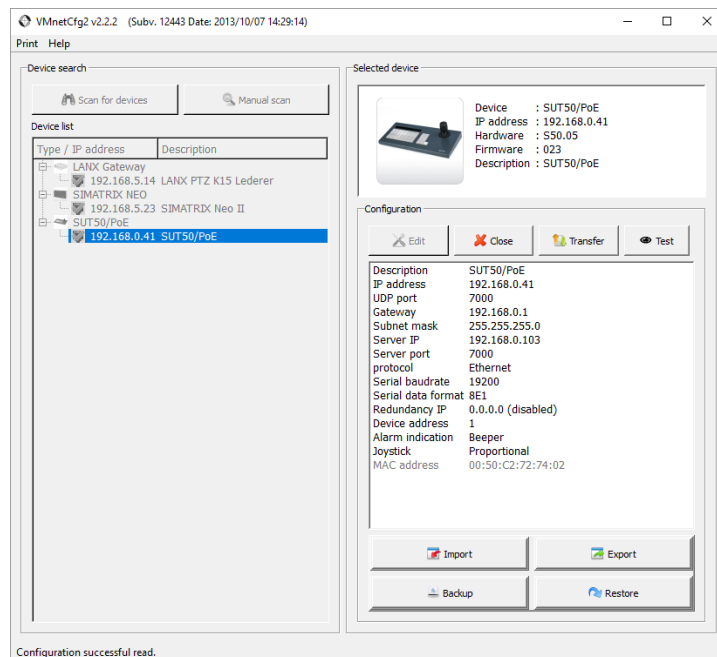
After startup, the program automatically searches for all available SUT50 and other devices in the local network, that can be configured with VMnetCfg2.exe.

The automatic search can be repeated with the button „Scan for devices“.

Is the SUT50 only accessible via a router (i.e. SUT50 is in another subnet than PC), a manual search is required. Push the button „Manual scan“ and enter the IP if the SUT50.

To edit the configuration, click on the device in the list and then button „Edit“.

The following screen shows the configuration of a SUT50:



Each parameter is editable with a double-click.

The information in the field „Selected device“ displays details of hardware and software version of the device.

Click the „Transfer“ button to apply the configuration back to the SUT50.

To cancel the configuration click „Close“. All changes are discarded then.

The „Export“ button saves the current configuration to a file, which can be loaded with the „Import“ button.

After successfully configuring the device close VMnetCfg2.exe with the key combination „Alt-F4“ or by clicking the red „X“ in the upper right corner.



When a PIN for configuration is set in the SUT50, VMnetCfg2.exe reports „read only“. Reset the PIN in the menu item „admin password“ to „0000“ to make the SUT50 accessible via LAN.

7.3 User configuration

The user generally will not have the permission to access the configuration menu. Some settings are still accessible with hotkeys in normal mode.

7.3.1 Quit acoustical alert

An accoustical alert (beep or bell, depending on setup) as well as a optical status signal (red/green flashing LED) are indicating an incoming alert. To quit the current acoustic alert press the *Shift* key.

Notice: Quitting the acoustic alert does not quit the alert of the videosystem, noticeable by the flashing LED.

7.3.2 Locking the HMI device

To lock the HMI device against unauthorized use – for example when the workstation is temporarily not manned – the SUT50 can be locked with the key combination *Shift + both joystick buttons*.

To unlock the SUT50 enter the PIN number.

When no PIN is defined the HMI device can not be locked. To configure a PIN see Chapter 7.1.5.

7.3.3 Digital-joystick emulation

When remotely controlling older domes it may be necessary to activate the digital joystick emulation to scroll through the domes configuration menu.

Therefore hold down the *Shift* key while navigating through the menu items.

7.3.4 Adjust brightness and contrast of the SUT50 display

Hold down *Shift + Relay-2* and move the joystick horizontally to adjust the contrast or move the joystick vertically to adjust brightness.

The settings for brightness and contrast are lost when the HMI device is switched off. To permanently change the settings for brightness and contrast enter the configuration menu and perform the adjustment in the same way as in the normal operation mode. Make sure to save the settings by selecting the menu item „save changes“.

8 Parameterisation of the videomatrix

The SUT50 is suitable to operate with the videomatrix systems of the SIMATRIX-series and the VM1000.

Depending on the chosen interface and purpose the Videomatrix-System must be configured as well. The parameterisation of the Videomatrix-Systems VKS-648, SIMATRIX and Neo 168 is covered in the dokumentation which can be found on the CD, that is part of the SUT50's delivery content.



Please refer to the Product-CD, that contains all necessary documentation and configuration programs to configure the SUT50 and Videomatrix.

9 Maintenance

9.1 Cleaning

- For cleaning use only a clean dry cloth
- Do not use liquid cleaning agents or spray

10 Transport and storage

- Keep the original device packaging for later transports
- Do not expose the device to mechanical shocks

11 Appendix

11.1 Technical data

Feature	Classification	Description
Data Interfaces	100Base-T Ethernet	100 Mbit/s (IEEE802.3)
	Current-Loop-Interface (TTY)	20mA
	RS232-Interface	
	RS485- Interface	
Communications protocol	Network	UDP/IP, configurable IP-Address, Port 7000
	Serial	SIMATRIX protocol (polling- und self-active mode), SCU-Protocol 1 und 2
Mode of Operation	TTY-Slave	Polling-Mode – via TTY to Simatrix (2400 Bd)
	TTY-Master	(Self-active mode) – to all SIMATRIX- Videomatrix- Systems and -Servers via Current Loop (20mA, 2400 Bd), V24, or optionally RS485
	LAN	Via UDP/IP to the SIMATRIX-Server or another SUT50 in console router mode.
Baudrate of the Serial Interface	2400 to 19200* Baud/sec. adjustable	Baudrate depends on operation mode and system configuration
Display components	Blue 5x8-Dotmatrix, 16 Digits, alphanumerical	LCD-Display (STN-technology), white on blue background.
	LEDs to indicate operation mode and alert	
Acoustical indicator	internal, linked with alert indication LED	Can be deleted seperately in case of an alarm
Control Elements	32 + 8 input- and control buttons	
	1 Shift button	Switching to second managing level
	1 multifunctional analogue joystick	Camera angles (swing, tilt) and zoom / focus adjustment
Configuration		Configuration menu, operated with buttons and joystick. Display if menu items on the HMI device. Alternative: Configuration via LAN with the configuration tool VMnetCfg.exe possible.
Power Supply	DC 10-17 V, unregulated	Power supply from Videomatrix possible
	Power over Ethernet (IEEE 802.3af)	
Current Consumption	max. 200 mA	12V
Measures: (B x H _{front} /H _{back} x T) mm	Approx. 370 x 24/40 x 172	

11.2 Standard keyboard layout

Factory made the buttons of the HMI device are labeled for alert program 2. (see illustration below)

The provided CD contains a file to print the keyboard layout.



Important: Entering a PIN (see Chapter 7.1.4) is only possible, when the keyboard layout matches one of the two layouts illustrated in Fig. 8 and 9.



Additional functions are only available when configured with the configuration program of the video-matrix – see Chapter 8.

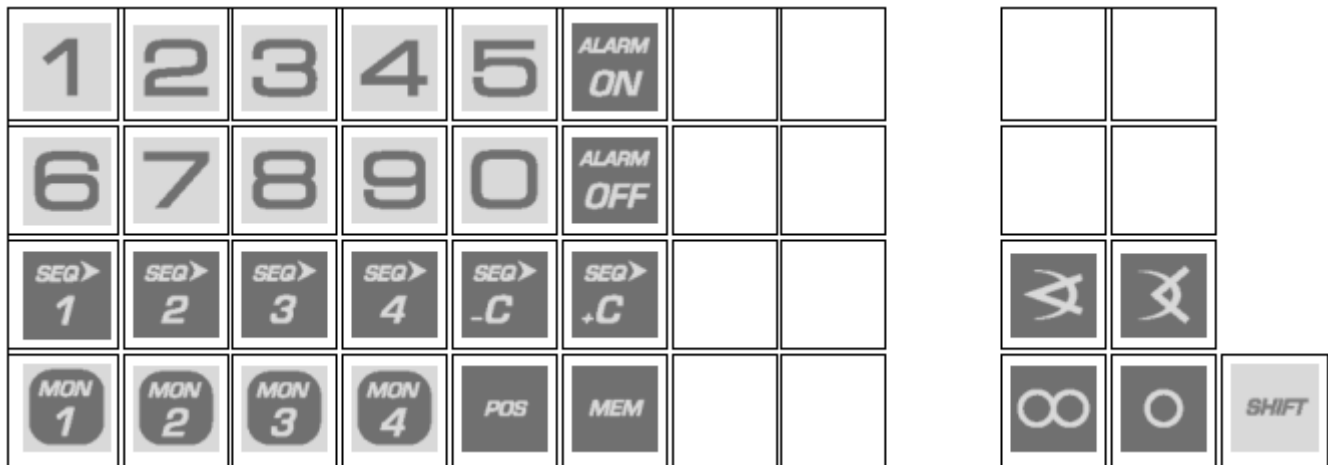


Fig. 8 Keyboard layout from delivery condition (Alert program 2)

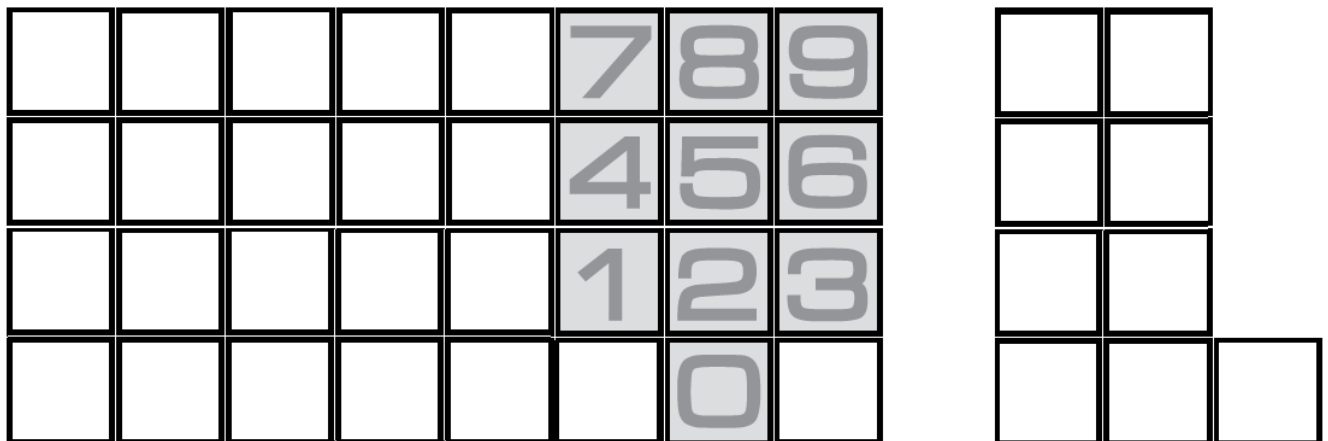


Fig. 9 Alternative Layout of the number pad.

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