

Tutorial

vicostick for vicosys

General procedure for the use of the vicostick



Impress

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Validity

This document is valid for the following devices as well as the derived device configurations.

- Multi-camera system vicosys 5300
- Multi-camera system vicosys 5400
- Multi-camera system vicosys 19001

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1 Foreword

This document explains how to handle the files provided by Vision & Control for the vicostick, as well as the use of the vicostick.

The vicostick is an administration tool for installing a vicosys update, creating backups of user data and restoring previously saved user data.

The vicostick consists of a USB stick that is loaded with special software. It is plugged into a USB port of the vicosys and booted during start-up.

The vicostick is only available for units with 64-bit versions from firmware version 4.16.300.



TIP

With the **Upgradestick vicosys** (order no. 4-21-163) you can upgrade your multi-camera system vicosys 5300/5400 from the 32-bit to the 64-bit version if required.

Requirements

You will need the following components:

- an empty USB stick with a capacity of at least 8 GB
- a vicosys with connected keyboard and connected monitor
- the file "vicosys_4.16.*.zip". It contains the firmware file vicostick.img and the files "bootzero_*.bin" and "vicosys-system_*.bin".

* corresponds to the version number and must be identical. You can find the file in the download area of the website under <https://www.vision-control.com/service/downloads/>

2 Compile a vicostick

Preparing the USB stick



NOTICE

When the USB stick is formatted, existing data on the stick is deleted.

1. Format the USB stick with the file system format "exFAT".
2. Unzip the file `vicosys_4.16*.zip`.
* corresponds to the current version number
3. Copy the files "vicostick.img", "bootzero*.bin" and "vicosys-system*.bin" to the USB stick.

Connecting components

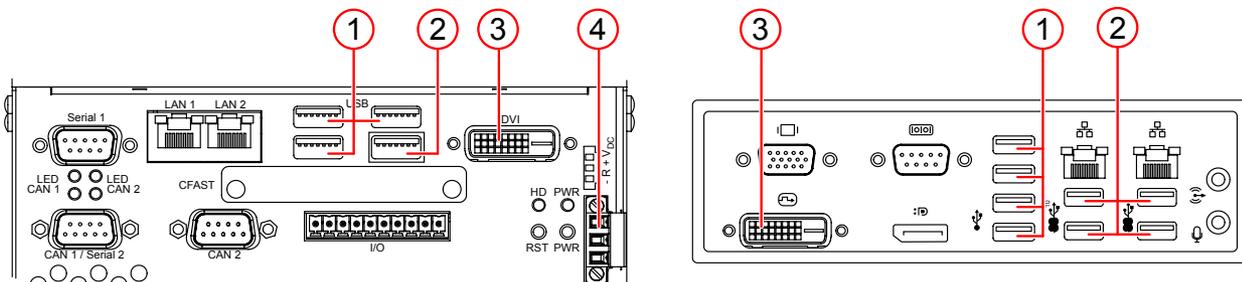


NOTICE

Installation and connection operations may only be performed in the off and de-energised state.

If the unit is in standby mode, switch off the unit by switching off the supply voltage. If the unit is in standby mode, switch off the unit by switching off the supply voltage.

- for vicosys 5300/5400: Disconnect the operating voltage supply (4). Alternatively, press the PWR button for 5 seconds.
- for vicosys 19001: On/off switch under the cover flap on the front.



View vicosys 5300/5400 and vicosys 19001

- | | | | |
|---|---------|---|--------------------|
| 1 | USB 2.0 | 3 | DVI output |
| 2 | USB 3.0 | 4 | Power supply input |

1. Connect the keyboard to one of the USB interfaces (1) (2).
2. Plug the vicostick into a USB interface (1) (2).
3. Connect the monitor to the DVI output (3).
4. Switch on the operating voltage supply.
 - at vicosys 5300/5400: Switch on at the operating voltage supply (4). Alternatively, press the PWR button briefly.
 - at vicosys 19001: On/off switch under the cover flap on the front.
5. The vicosys boots automatically from the vicostick.

3 Using the vicostick

vicostick main menu

If a vicostick is connected to a USB port, the system automatically boots from this stick after a reboot.

On the connected monitor you can see the vicostick main menu. From here, the firmware can be updated, backups created and also restored.

```
*****
*   vicostick: vicosys Administration Tool   *
*****
                                     V0.3.0

  1) Update Firmware
  2) Backup user data
  3) Restore user data
  4) Add licence
  q) Exit (restart system)

Please enter command: []
```

When all the desired steps have been completed, press [q] to end the program and the vicosys will shut down.

3.1 Perform update



NOTICE

Before making any changes to the vicosys firmware, create a backup of your current system.

1. In the main menu, select the item “Update Firmware” by pressing [1]. Confirm the selection with [Enter].

```
*****
*   Updating vicosys system...   *
*****

Available Firmware Versions:

  0) 300
  1) 300 (halcon)
  3) 300
  4) 300 (halcon)
  q) exit

Please enter number of firmware to install: []
```

2. After the confirmation, you will see a list of the firmware versions available on the stick. Select the desired version and confirm with [Enter].

```
Please enter number of firmware to install: 300
checking signature...
Selection: install V300
Do you want to continue (y/n)? [ ]
```

3. You will be asked if you want to update the system. Press [y] here and confirm with [ENTER] to continue. The vicostick will now install the new firmware on the system.

```
Do you want to continue (y/n)? y
installing: vicosys-system_300.bin

now extracting /mnt/stick/vicosys-system_300.bin to /mnt/system...
Installation done
System successfully updated to Version 300
Press any key to continue...
```

4. After successful installation, press a button to enter the main menu.

3.2 Back up user data

With vicostick you can back up your user data.

1. In the main menu, select the item “Backup user data” by pressing [2]. Confirm the selection with [Enter].

```
*****
* Making backup of user data... *
*****

Backup user data to vicosys_data_12345678902_2021-07-09_1.tar
Do you want to continue (y/n)? [ ]
```

2. The user data is saved in a tar file on the vicostick. The file name is predefined and consists of the serial number of the device and the date of the backup. Press [y] here and confirm with [ENTER] to continue. The backup is created.

```
Do you want to continue (y/n)? y
creating archive...

Backup done
data saved to vicosys_data_12345678902_2021-07-09_1.tar
Press any key to continue...
```

3. After successful completion, press a key to enter the main menu.

3.3 Restore user data

1. In the main menu, select the item “Restore user data” by pressing [3]. Confirm the selection with [Enter].

```
*****
*   Restoring user data backup...   *
*****

Available Backups:

  0)   Serial: 12345678902 (2020-11-27)
  1)   Serial: 12345678902 (2021-07-09)
  q)   exit

Please enter number of backup to restore: []
```

2. After the selection, you will see a list of the backup versions available on the stick. Select the desired version and confirm with [Enter].

```
Please enter number of backup to restore: 1

Selection: restore backup 12345678902
Do you want to continue (y/n)? []
```

3. You will be asked if you want to import the backup. Press [y] and confirm with [ENTER] to continue. The vicostick plays the backup on your system.

```
Do you want to continue (y/n)? y

installing: vicosys_data_12345678902_2021-07-09_1.tar

now extracting /mnt/stick/vicosys_data_12345678902_2021-07-09_1.tar to
/mnt/userdata/data...
Installation done
User partition successfully restored
  vicosys_data_12345678902_2021-07-09_1.tar)
Press any key to continue...
```

4. After successful completion, press a key to enter the main menu.