

Tutorial

Backup / Update vicosys[®] with vicostick[®]

An instruction for creating a backup and update of the multi-camera system vicosys[®] with a vicostick[®]



validity

The instructions are intended to be used for the following vision systems specified by Vision & Control GmbH

- Multi-camera systems vicosys[®] 4300/4400 series
- Multi-camera systems vicosys[®] 5300/5400 series

General description

vicostick® is a universal, comfortable storage device that is used to update, backup and restore a vicosys® multi-camera system. The vicostick®, equipped with special software, is plugged into the USB Port of a vicosys® and booted. The user can now use the desired features. There is no installation or other special knowledge required.

Advantages

- Update a vicosys® to the latest software version.
- Create backups (All data from the internal CompactFlash is copied 1:1 and saved as a backup on the stick, including the image processing data). The following data is included in the backup:
 - vicosys® operating system
 - vicosys® firmware
 - all test programs
 - all saved patterns and images
 - all saved geometry sets
 - License file for the authorization of the customer
- Existing licenses for special features (such as a thermography license) remain in effect when updated.
- If data is lost (for example, partition on CompactFlash defective), the system can be restored from an earlier backup.

Advice

To prevent data loss, the vicosys® must be shut down before removing the vicostick®.

Advice

Restoring a backup only works if there is already a vicosys® licence with the same software version on the device to which the backup is to be restored.

Advice

Copy the backup from vicostick® as an additional backup to a server or other non-volatile memory. In the event of a power failure during the later restore the backup data may be damaged, so you may have to resort to this backup.

Advice

When connecting the vicostick® to a Windows PC, you will be prompted to format it. This must not be confirmed under any circumstances! Formatting will otherwise erase all data.

Advice

Updating the latest vicosys® hardware requires the latest vicostick® version.

Memory capacity

- During backup 4 files (name.txt, name.im2, name_data.tar, name_system.tar) are stored on the vicostick® in the subdirectory ~backup.
- You can store different backups on a vicostick®.
- The required memory capacity depends on the size of the data stored on the vicosys®.
- If the capacity of the vicostick is not enough, you can transfer backups from the vicostick to another storage medium.

System requirements

- Multi-camera system vicosys®
- vicostick®
- USB- or PS2 keyboard
- External monitor

Create a backup

1. Connect the USB or PS2 keyboard to the vicosys[®] vision system.
2. Connect the vicostick[®] to the vicosys[®].
3. Connect the vicosys[®] to the power supply and switch on.
4. Switch to the vision system's BIOS by pressing **Del** or **F2** as soon as the boot process starts.
 - Select the vicostick[®] (USB Flash Disk) as **Boot Option #1** in the **Boot** menu under **Hard Drive BBS Priorities**. (The boot option can be reset for the normal operation after using the vicostick[®])
 - Restart the vicosys[®] with **Save Changes and Exit** in the BIOS menu **Save & Exit**
The vicosys[®] now boots a separate operating system from the connected vicostick[®]
5. When the boot process is completed, a small selection menu will appear with the options:
 - a) backup vicosys[®]
 - b) restore backup
 - c) quit
6. Select the option **backup vicosys[®]**.
 - A system backup will be made of the entire internal CompactFlash
This can take several minutes.
 - The backup file is saved with serial number, version, date and time.
7. Wait until the backup is created.
8. Then finish the process with the option **quit** in the selection menu.
 - The vicosys[®] will shut down.
9. Remove the vicostick[®]

Update / Restore a backup

Advice

Before uploading an image to another vicosys®, a backup of the target device should be made if you want to switch back to the original version. If an error occurs, you can port a backup of a multi-camera system to another.

1. Follow the description “Create Backup” until the vicostick® selection menu appears.
2. In the selection menu select the option **restore backup**.
 - The available backups appear
3. Select the desired backup and start the restore.
4. Wait until the restore is finished.
5. Then finish the process with the option **quit** in the selection menu.
 - The vicosys® will shut down.
6. Remove the vicostick®.

Limitation of Liability

This document has been prepared with great care. Nevertheless no guarantee for completeness and correctness can be given.

An update can cause permanent damage to your product if applied incorrectly. Before downloading the firmware, verify that it is compatible with your specific device. You update the firmware at your own risk. You take sole responsibility.

In no event unless required by applicable law or agreed in writing, Vision & Control GmbH is liable for any damages of any kind relating to the update, including but not limited to any general or special damages, lost data, procurement of substitute goods, compensatory damages or lost profits. If you have any doubts, contact your local sales partner or our technical support.

Vision & Control GmbH
Mittelbergstraße 16
98527 Suhl
Germany

Phone: +49 (0) 3681 7974-11
Telefax: +49 (0) 3681 7974-33
e-mail: support@vision-control.com
www.vision-control.com