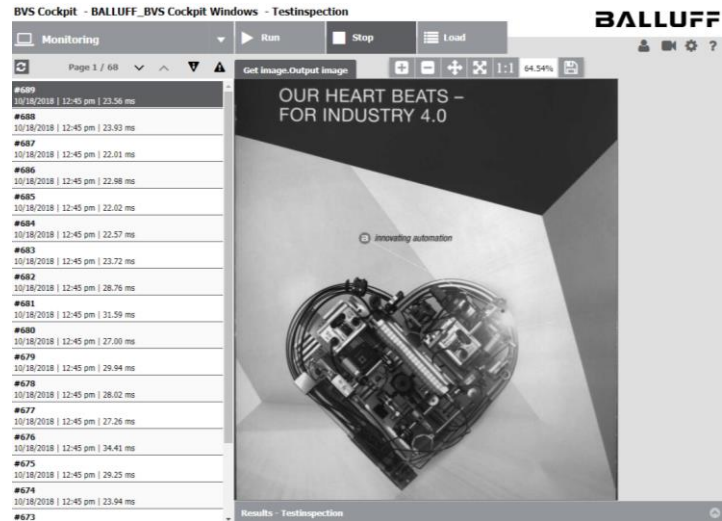
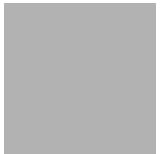


BALLUFF



BVS Cockpit

Update FW 2.6



OVERVIEW

BVS COCKPIT FW REVISION	2.6
CREATION DATE	January, 22nd , 2012
PRODUCTS	SmartCamera: BVS002A, BVS SC-M1280Z00-30-000 BVS002C, BVS SC-M1280Z00-07-000 BVS0029, BVS SC-M1280Z00-30-010 BVS002F, BVS SC-C1280Z00-30-000 BVS0033, BVS SC-M1280Z00-30-020 SmartVision Controller: BAE0103, BAE PD-VS-014-05 BVS Cockpit Windows: BAI000Z, BAI BVS-CA-EPC-001
RELATED MVIMPACT-ACQUIRE RELEASE	2.31.0
NETX FW (BUILD NO.)	1.0.0.11598 (BVS SC only)
RENESAS FW (BUILD NO.)	1.2.10 (BVS SC only)
PREVIOUS CAMERA FW REVISION	2.5.1.
MVTEC HALCON LIBRARY VERSION USED:	13.0.2.5
COMMENTS	

NEW TOOLS / TOOL FUNCTIONS

- 1. New communication protocol structure for TCP and UDP**
 Status messages can be disabled
 Protocol structure changed
 - "magic number" removed
 - data lengths optimized
 → See product manual
- 2. Extension of "Setup camera" tool**
 New calibration pattern:
 320mm wide / DIN-A3 format with robot targets
 640mm wide / DIN-A1 format with robot targets
 1000mm wide / DIN-A0 format with robot targets.
- 3. New tool "Calibrate robot"**
 Guided process to calibrate a robot to camera coordinates
- 4. Optimization of "Check object" tool**
 New result parameter for "total area" and "number of defects".
 New scaling and format (int) of sensitivity parameter for improvement in intensity mode
 New naming: "Defects" and "Minimum Defects"
- 5. Optimization of "Check Brightness" tool**
 New result parameter "Homogeneity"
- 6. Optimization of "Send Results" and "Receive Data"**
 New column showing the absolute offset of each parameter in the tool configuration.
 Defined values are also available in result section and in monitor mode
- 7. Additional features and improvements**
 New status information: File Device or Simulation mode
 This information is also graphically highlighted in the browser GUI.
- 8. Display improvements**
 Better usability of image zooming process

COMPATIBILITY TO PREVIOUS VERSIONS

- **TCP/UDP Communication**
No command compatibility to older solution
- **Check object tool**
Using existing "Check Object" realizations will be converted automatically – however must be proven again for compatible functionality.

HOW TO INSTALL

- Download and unzip the files from our home page in the designated product section.

SmartCamera:

- Open the update folder with the Windows file explorer of your (running) SmartCamera (e.g. \\SC-170400055DE\\Updates) - (eventually use once Login: **expert** Password: **expert**)
- Copy the firmware file
e.g. **BVS_SC_2.6.sh** (~80MB) into this folder
- During the automatic update process the front side LED of the SmartCamera is red blinking
- After ~3min the browser automatically updates and the camera is ready to operate. (In case there is no refresh please restart your browser)

SmartVision Controller:

- Open the update folder with the Windows file explorer of your (running) SmartCamera (e.g. \\SVC-123456\\Updates) - (eventually use once Login: **expert** Password: **expert**)
- Copy the firmware file
e.g. **BAE_PD_2.6.shc** (~400MB) into this folder
- After ~3min the controller reboots automatically and the browser automatically updates (In case there is no refresh please restart your browser)
- Please verify the "Firmware Version" in the general settings of your BVS Cockpit.
- The updated hardware and software manuals are available through the online help section

BVS Cockpit Windows:

- Execute the setup program.

ADDITIONAL SUPPORT

- For additional help contact our support department:
 +49 7158 173-370
 +49 7158 173-691
 service@balluff.de
- Or contact your regional support center.