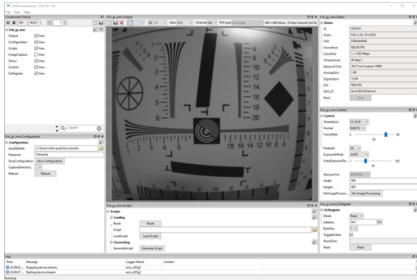


PC evaluation software for ST BrightSense image sensors and associated promodules



Features

- Evaluation software for computers
- Easy-to-use graphical user interface (GUI)
- Windows environment
- Supports all ST BrightSense image sensors: VD56G3, VD66GY, VD16GZ, VD55G0, VD55G1.
- Manual parameter adjustment through the GUI
- Access to registers for full setting customizations
- Image and configuration saving
- Panel configuration
- Includes a script generator tool
- Compatible evaluation hardware: EVK Main



Product status link

[STSW-IMG501](#)

Description

The STSW-IMG501 is a versatile evaluation software for PCs. It enables performance evaluation through image quality and data saving. Running in a Windows environment, the software supports all ST BrightSense image sensors and associated promodules.

The GUI provides simple access to image live streaming, status information, and key measurements such as pixel values, distribution profile, and signal-to-noise ratio. The software allows users to fine-tune their evaluation configuration in multiple ways through different panels. This includes: adjusting key parameters manually through the graphic interface, writing register values individually, or running scripts. The software also embeds a script generator tool. It enables scripts to be run instantly to optimize product evaluation. Saving features allow configurations, images, or sequences of images to be stored at any time for later analysis.

As for all ST BrightSense software tools, the STSW-IMG501 is available for free download directly from the STMicroelectronics website. The tool is compatible with all ST BrightSense hardware tools.

Table 1. Specifications summary

| Category | Parameter | Specifications |
|--------------------|-------------------------------------|--|
| Supported products | Supported product references | VD56G3, VD66GY, VD16GZ, VD55G0, and VD55G1 |
| Hardware support | Processing hardware (not provided) | PC |
| | Connection to processing hardware | USB |
| | Interface | USB3 |
| | Compatible imaging hardware from ST | EVK Main |
| Software support | Environment | Windows |
| | Versions supported | v.10 or newer |
| Features | Colorization | Monochrome and color (RGB sensors) |
| | Orientation | Default X flip, Y flip, and X+Y flip |
| | Exposure | Automatic and manual |
| | Resolution | Free selection |
| | Frame rate | Free selection |
| | Data format | RAW8 and RAW10 |
| | Saving features | Configuration, image, sequence of images |
| | Register control | Manual or through script |
| | Script generation | Manual or using a script generator tool |
| | Troubleshooting | Log file generation |

Revision history

Table 2. Document revision history

| Date | Version | Changes |
|-------------|---------|-----------------|
| 23-May-2024 | 1 | Initial release |

IMPORTANT NOTICE – READ CAREFULLY

STMicroelectronics NV and its subsidiaries (“ST”) reserve the right to make changes, corrections, enhancements, modifications, and improvements to ST products and/or to this document at any time without notice. Purchasers should obtain the latest relevant information on ST products before placing orders. ST products are sold pursuant to ST’s terms and conditions of sale in place at the time of order acknowledgment.

Purchasers are solely responsible for the choice, selection, and use of ST products and ST assumes no liability for application assistance or the design of purchasers’ products.

No license, express or implied, to any intellectual property right is granted by ST herein.

Resale of ST products with provisions different from the information set forth herein shall void any warranty granted by ST for such product.

ST and the ST logo are trademarks of ST. For additional information about ST trademarks, refer to www.st.com/trademarks. All other product or service names are the property of their respective owners.

Information in this document supersedes and replaces information previously supplied in any prior versions of this document.

© 2024 STMicroelectronics – All rights reserved