PC evaluation software for ST BrightSense image sensors and associated promodules

Product status link
STSW-IMG501
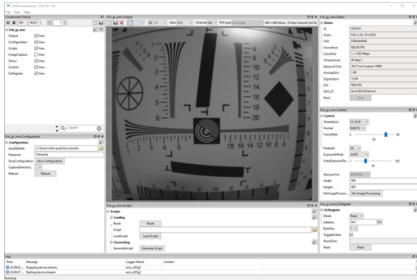
Features

- 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

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.

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For further information contact your local STMicroelectronics sales office.

www.st.com

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