3G/HD-SDI Premium For LVDS zoom block cameras





Take advantage of a high quality, low jitter and uncompressed HD video stream.

Twiga 3G-SDI Premium converts the native LVDS video signal from camera blocks to **3G/HD-SDI** and **Analog video** standards.

FEATURES

- 。 3G/HD-SDI video output
- Automatic LVDS & format camera recognition
- Video resolution up to 1080p60
- o Analog video output :
 - Composite video (CVBS)
 - S-Video (Y/C)
 - Component video (YPbPr)
- o Multiple format possibilities:
 - Letter box
 - o Squeeze
 - o Crop
- UART Communication RS232/TTL using VISCA
- 。 Setup & Update via UART
- Video mode selection by DIP switches
- $\circ \ \ \text{Power supply } \textbf{7V-12VDC}^1$

High Quality SDI Interface

Using coaxial cables with very low power loss, enables **video transmission over 100 meters**. This distance can be increased up to 300 meters using equalization at the receiver.

The dual output 3G and Analog will significantly reduce the number of boards, improving the cost and time-to-market.

o 3G-SDI Core

The 3G-SDI Premium module is based on a **FPGA** associated with **DDR3 memory**. Combined with **Twiga's expertise**, complex **image processing** functions can be embedded on real time video flow such as colorimetry tests, measurements, reticules, contrast enhancement, ROI extraction, OSD and even more functions to fit your applications.

Add-on Connector for Custom Functions

The add-on connector on the bottom side offers an infinity of new functionalities. The 3G-SDI Premium can be directly mounted into your system/end-products (plug-in) or connected to custom designed add-on board¹. Integrated RTC, audio embedded to SDI, second video input are some examples of the new possibilities / range of functionalities.

¹ Twiga offers off-the-shelf solutions and/or designs custom add-on board to meet your needs. Contact us



¹ Refer to camera technical manual to know the input power supply.

Onboard Connectors





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