



# **CorSight2**

# **FPGA Firmware**

# **Revision Guide**

Rev01.04-180329

**Commercial-in-Confidence**

**For Internal Use Only**

29 March 2018

NET New Electronic Technology GmbH

Lerchenberg 7  
86923 Finning, Germany

Tel: +49 8806 9234 0  
Fax: +49 8806 9234 77

info@net-gmbh.com  
www.net-gmbh.com

## CorSight FPGA Firmware Revision History

Revision	Date	Description
01.00	19/10/2016	Initial version, does not include OpenCamera functionality.
01.01	22/11/2016	Upgraded all IP cores to Vivado 2016.3. Added PCIe x1 Core Interface, FPGA compiled with PCIe x1. Added FMB-RX ImageBus Correction module. Fixed bug in Defect Pixel Correction module. Removed FMB Bypass FIFO.
01.02	03/08/2017	Upgraded all IP cores to Vivado 2016.4. Changed PCI-Express Base-Address-Register 0 from 64-bit to 32-bit. Added LVSB Time-Out Counter and control registers. Added Interrupt Latency status register. Added Trigger Offset and Constant Trigger Interval functionality to Quadrature Decoder. Added on-the-fly Activation and Direction Sensing functionality to Quadrature Decoder. Removed Incremental Test Encoder from Quadrature Decoder. Fixed Quad Decoder problem with TrigStartVal and ConstTrigger = 0x0. Updated CorSight Timer documentation. Added Frame Trigger functionality to Timer Trigger module. Fixed problem in VIP Frame Composer in Interleaved Trigger mode. Added option to write Frame Message at end of frame. Added Line-Scan and Interleaved Trigger functionality to VIP Pattern and Timing Generators. Removed XC7A50T FPGA support. Removed CorSight2-Rev0 support. Changed Frame Message format to Version 7. Added Global Synthesis IP cores to compilation flow. Added Design02 compilation flow (removed Geo-Module and ImageBus pipeline). Removed FPGA BlackBox compile flow. Added OpenCamera compile flow (not yet finalized).
01.03	06/02/2018	Upgraded all IP cores to Vivado 2017.3. Added full OpenCamera / Custom Module support. Added MCB and FMB Bandwidth Analyzers. Fixed byte swap problem in the FMB-GEO Interface. Added CorSight2 Board Revision compilation option.
01.04	29/03/2018	Made the inclusion of the Custom Module Bypass selectable in the OpenCamera project. Updated OpenCamera Reference Manual