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C2-640-GigE

Firmware Rev 1.1.1 (released 14th May, 2014)

News & Changes

- New COG algorithm with higher accuracy
- Improved COG validation over sum-of-intensity and laser width
- Encoder zero-position support: Reset trigger coordinate/counter over rising edge on index/channel-Z
- Multiple AOI support
- NDR support
- Digital Laser Modulation for automatic mode equal to exposure time
- Always count TriggerCoordinate (Encoder/RS422 interface) when TriggerMode=Freerun
- I2C support for C2-IO panel Rev.2.0 (only Device Version $\geq 3.0.2$)
- CVB integrated license support

Firmware Rev 1.2.0 (released 18th September, 2014)

News & Changes

- ReverseX Support
- Advanced Sensor Settings: Add Register "BSCControl" for black sun compensation
- Chunk Data in Image Mode (2D)
- Bugfix: Combination of AoiSearch and Laser Control (auto mode)

Firmware Rev 1.3.0 (released 24th May, 2017)

News & Changes

- Using LVDS clock (replaced unstable internal PLL clock). Highly Recommended!

C2-2040(HS)-GigE

Firmware Rev 1.2.3 (released 31st May, 2013)

News & Changes

- Fixed problem with chunk data in case of multiple AOIs
- Fixed problem with FileAccessBuffer size of 4096Bytes
- Fixed problem with GigE-Event for AoiTracking when using Autostart
- Add GigE-Event for Autostart
- Add digital output signal (Output2) for Autostart
- Add ReverseX capability

Firmware Rev 1.2.4 (released 4th November, 2013)

News & Changes

- New COG-Algorithm implementation (-AoiThreshold)
- XML Major, Minor and SubMinor Version in header incremented by 1

Firmware Rev 1.2.5 (released 6th March, 2014)

News & Changes

- Add CVB License support (over Register)
- Improved COG-Validation for new COG and fixed some minor bug for SumOfIntensity and Width
- XML update. Add valid min, max (64-127) values for Vlow2, Vlow3 (MultipleSlopeMode)
- Dynamic AoiOffset change for long frame interval (e.g. 40000us) and during idle state when using SequencerMode = Start/Stop over IN1, IN2 etc.
- Fixed LASER_DO Bug. LASER_DO is high only during Integration Time.
- Add Index/Channel-Z support. Reset Coordinate and Counter over rising Edge on Channel-Z
- XML: Add "noCache" option for FileAccessBuffer. Required for MatrixVision GenTL support

Firmware Rev 1.3.2 (released 14th May, 2014)

News & Changes

- New FIR Implementation and FIR-Peak

- Encoder zero-position support: Reset trigger coordinate/counter over rising edge on index/channel-Z
- Always count TriggerCoordinate (Encoder/RS422 interface) when TriggerMode=Freerun
- I2C support for C2-IO panel Rev.2.0 (only Device Version >=3.0.2)
- CVB integrated license support

Firmware Rev 1.4.0 (released 18th September, 2014)

News & Changes

- New Horizontal Windowing (OffsetX, Width)
- Chunk Data in Image Mode (2D)
- Bugfix: COG-Validation
- Bugfix: Combination of AoiSearch and Laser Control (auto mode)

Firmware Rev 1.4.1 (released 13th February, 2015)

News & Changes

- Improved FIR-Peak, higher accuracy for thin laser lines (e.g. 1 to 3 pixel)
- Bugfix: GEV_PENDING_ACK for Commands
- Removed Event "None". This event has no use and is not defined by SFNC
- Add new XML features to configure the Multi-Slope mode by SFNC Proposal
- All XML Command features are defined as Write Only (WO)

Firmware Rev 1.5.1 (released 15th April, 2016)

News & Changes

- Light Control (replacement for former laser control parameters: LaserPower, ...). Supports laser models from different vendors (Z-Laser, Coherent, Laser Components)
- FIRPeak Validation (Minimum Threshold Validation, FirstZeroCrossing)
- Service Web Interface
- Bugfix: ColumnEvaluationMask for camera models with a sensor width of 1600

Firmware Rev 1.5.2 (released 24th November, 2016)

News & Changes

- Ethernet Stability improved
- Laser Controller given out to the terminal as selectable output
- DHCP Software retry strategy improved
- MultiSlopeMode based on SFNC 2.3
- AcquisitionLineRate added in 3D mode
- Backward Compatibility for LaserTurnOn based on 1.4.1
- AquisitionFrameRate calculates correct value depending on camera mode (2D / 3D)

Firmware Rev 1.5.3 (released 27thMarch, 2017)

News & Changes

- AOI Tracking Bug fixed

Firmware Rev 1.5.4 (released 28thMarch, 2018)

Added:

- AoiTracking and AoiSearch with new Algorithms (Range, Mean, Max, Min)
- AoiTracking Region/Offset
- AoiSearchMinNumPixel
- Activate temporal ColumnEvaluationMask (also when image acquisition is active)
- LightControl support for ZX Laser via I2C
- EventNotification via GenICam node access
- Add PixelFormat=Mono10

Fixed:

- Laser Power for Osela CL with corrected analoge voltage range (0.7V..4.2V -> 100%-0%)
- GevLinkSpeed (GenICam) shows now real link speed of device
- FileAccessControl behaviour now equal to GenICam definition (SFNC 2.3)

Changes:

- Renamed EventSelector Entries for AoiTracking and Transfer Start/End
- AoiTracking parameter now accessible when image acquisition is active
- AoiSearch parameter now accessible during image acquisition is active

C4-1280-GigE

Firmware Rev 1.4.2 (released 5th May, 2014)

News & Changes

- New COG algorithm with higher accuracy
- Improved COG validation over sum-of-intensity and laser width
- Improved FileAccessControl Implementation
- GEV-Events for AoiTracking works now correct when using Autostart
- Improved consistency when using ChunkMode with two AOIs. Number of chunks equal to profiles per frame.
- CVB integrated license support

Firmware Rev 1.5.0 (released 28th August, 2014)

News & Changes

- New FIR Implementation and FIR-Peak
- Always count TriggerCoordinate (Encoder/RS422 interface) when TriggerMode=Freerun
- Chunk data includes now correct values for AoiHeight and OffsetX

Firmware Rev 1.5.1 (released 23rd July, 2015)

News & Changes

- Improved FIR-Peak, higher accuracy for thin laser lines (e.g. 1 to 3 pixel)
- Bugfix: GEV_PENDING_ACK for Commands
- Bugfix: Chunk Data in Image Mode
- Bugfix: AoiThreshold cannot be set to <512 in Image mode
- Bugfix: AcquisitionMaxBufferdFrameCount contains invalid value
- Change: DeviceManufacturerInfo contains now AT part number (former AT company name)
- XML: Removed Event "None". This event has no use and is not defined by SFNC
- XML: Set access mode "WO" to GenICam-Commands (compatibility with GenICam Rev >2.4)

Firmware Rev 1.5.2 (released 23rd February, 2016)

News & Changes

- Fixed: Set OffsetX during Acquisition (requires ReverseX=false)
- XML: Minor changes (cache options)
- XML: Add Streamable attributes to FIR coefficients
- XML: Remove PixelFormat=Mono8 for 3D mode
- XML: Remove SequencerMode=Autostart for 2D mode
- XML: Autostart category is not available when SequencerMode !=Autostart

C4-2040(-4M)-GigE

Firmware Rev 1.2.3 (released 31st May, 2013)

News & Changes

- Fixed problem with chunk data in case of multiple AOIs
- Fixed problem with FileAccessBuffer size of 4096Bytes
- Fixed problem with GigE-Event for AoiTracking when using Autostart
- Add GigE-Event for Autostart
- Add digital output signal (Output2) for Autostart
- Add ReverseX capability

Firmware Rev 1.2.4 (released 4th November, 2013)

News & Changes

- New COG-Algorithm implementation (-AoiThreshold)
- XML Major, Minor and SubMinor Version in header incremented by 1

Firmware Rev 1.2.5 (released 6th March, 2014)

News & Changes

- Add CVB License support (over Register)
- Improved COG-Validation for new COG and fixed some minor bug for SumOfIntensity and Width
- XML update. Add valid min, max (64-127) values for Vlow2, Vlow3 (MultipleSlopeMode)
- Dynamic AoiOffset change for long frame interval (e.g. 40000us) and during idle state when using SequencerMode = Start/Stop over IN1, IN2 etc.
- Fixed LASER_DO Bug. LASER_DO is high only during Integration Time.
- Add Index/Channel-Z support. Reset Coordinate and Counter over rising Edge on Channel-Z
- XML: Add "noCache" option for FileAccessBuffer. Required for MatrixVision GenTL support

Firmware Rev 1.3.2 (released 14th May, 2014)

News & Changes

- New FIR Implementation and FIR-Peak
- Always count TriggerCoordinate (Encoder/RS422 interface) when TriggerMode=Freerun

- CVB integrated license support

Firmware Rev 1.4.0 (released 18th September, 2014)

News & Changes

- New Horizontal Windowing (OffsetX, Width)
- Chunk Data in Image Mode (2D)
- Bugfix: COG-Validation
- Bugfix: Combination of AoiSearch and Laser Control (auto mode)

Firmware Rev 1.4.1 (released 13th February, 2015)

News & Changes

- Improved FIR-Peak, higher accuracy for thin laser lines (e.g. 1 to 3 pixel)
- Bugfix: GEV_PENDING_ACK for Commands
- Removed Event "None". This event has no use and is not defined by SFNC
- Add new XML features to configure the Multi-Slope mode by SFNC Proposal
- All XML Command features are defined as Write Only (WO)

Firmware Rev 1.5.1 (released 15th April, 2016)

News & Changes

- Light Control (replacement for former laser control parameters: LaserPower, ...). Supports laser models from different vendors (Z-Laser, Coherent, Laser Components)
- FIRPeak Validation (Minimum Threshold Validation, FirstZeroCrossing)
- Service Web Interface

Firmware Rev 1.5.2 (released 24th November, 2016)

News & Changes

- Ethernet Stability improved
- Laser Controller given out to the terminal as selectable output
- DHCP Software retry strategy improved
- MultiSlopeMode based on SFNC 2.3

- AcquisitionLineRate added in 3D mode
- Backward Compatibility for LaserTurnOn based on 1.4.1
- AcquisitionFrameRate calculates correct value depending on camera mode (2D / 3D)

Firmware Rev 1.5.3 (released 27thMarch, 2017)

News & Changes

- AOI Tracking Bug fixed

Firmware Rev 1.5.4 (released 28thMarch, 2018)

Added:

- AoiTracking and AoiSearch with new Algorithms (Range, Mean, Max, Min)
- AoiTracking Region/Offset
- AoiSearchMinNumPixel
- Activate temporal ColumnEvaluationMask (also when image acquisition is active)
- LightControl support for ZX Laser via I2C
- EventNotification via GenICam node access
- Add PixelFormat=Mono10

Fixed:

- Laser Power for Osela CL with corrected analog voltage range (0.7V..4.2V -> 100%-0%)
- GevLinkSpeed (GenICam) shows now real link speed of device
- FileAccessControl behaviour now equal to GenICam definition (SFNC 2.3)

Changes:

- Renamed EventSelector Entries for AoiTracking and Transfer Start/End
- AoiTracking parameter now accessible when image acquisition is active
- AoiSearch parameter now accessible during image acquisition is active

C4-2350-GigE

Firmware Rev 1.3.7 (released 30th October, 2013)

News & Changes

- New COG algorithm with higher accuracy
- COG validation over sum-of-intensity and laser width
- Fixed LED bug from previous version (1.3.6). LED now reacts as described in camera manual
- CVB integrated license support

C4-4090-GigE

Firmware Rev 1.1.0 (released 19th February, 2014)

News & Changes

- New COG algorithm with higher accuracy
- COG validation over sum-of-intensity and laser width
- Dynamic AoiOffsetY for long frame interval and external sequencer mode
- XML: Vlow2/Vlow3 values for Min and Max are 64 and 127, respectively.
- XML: Category and standard feature are now conform to SFNC
- CVB integrated license support

Limitations

- Compatible for devices with Device Version = 2.0.x

Firmware Rev 1.2.0 (released 28th July, 2014)

News & Changes

- High-Profile Speed (up to 14,500 Hz)
- Compatible for devices with Device Version \geq 2.1.x
- Windowing in horizontal direction (Width, OffsetX)
- Chunk information includes OffsetX value
- Trigger coordinates counts during Freerun and AoiSearch mode.
- Laser Digital modulation equal to integration time signal

Limitations

- Compatible for devices with Device Version \geq 2.1.x

Firmware Rev 1.2.1 (released 28th November, 2016)

- Change Sensor Register settings to recommended value

C5-1280-GigE / C5-1280CS

Firmware Rev 1.1.0 (released 27th June, 2017)

News & Changes

- First official release

Firmware Rev 1.2.0 (released 28th March, 2018)

Added:

- AoiTracking and AoiSearch with new Algorithms (Range, Mean, Max, Min)
- AoiTracking Region/Offset
- AoiSearchMinNumPixel
- Activate temporal ColumnEvaluationMask (also when image acquisition is active)
- LightControl support for ZX Laser via I2C
- EventNotification via GenICam node access

Fixed:

- Multi AOI operation: Now with correct readout timing
- Manual Aoi Tracking with NumAois > 1: Change AoiOffsetY during acquisition
- Pending-ACK Handling
- MultiSlope threshold behaviour now equal to GenICam definition (SFNC 2.3)
- Laser Power for Osela CL with corrected analogue voltage range (0.7V..4.2V -> 100%-0%)
- GevLinkSpeed (GenICam) shows now real link speed of device
- FileAccessControl behaviour now equal to GenICam definition (SFNC 2.3)

Limitation:

- ReverseX/ReverseY locked for NumAois>1

Changes:

- AoiTracking parameter now accessible when image acquisition is active
- AoiSearch parameter now accessible during image acquisition is active

Firmware Rev 1.2.1 (released 11th July, 2018)

Fixed:

- Manual Aoi Tracking with max. NumAois ≤ 4
- MultiSlope Handling

Limitation:

- ReverseX/ReverseY locked for NumAois >1

Changes:

- PRSTN pulse width set default to 166 (previously 45). Slightly reduce max. profile speed for small AOIs

C5-2040(-4M)-GigE / C5-2040CS / C5-1600CS

Firmware Rev 1.5.0 (released 24th March, 2016)

News & Changes

- Light Control (replacement for former laser control parameters: LaserPower, ...). Supports laser models from different vendors (Z-Laser, Coherent, Laser Components)
- FIRPeak Validation (Minimum Threshold Validation, FirstZeroCrossing)
- Service Web Interface

Limitations

- Bug: ColumnEvaluationMask does not work properly for models with a sensor width of 1600
- Bug: RS232 laser communication does not work for all compact sensor models
C5-XXXXCSXX-XXXX

Firmware Rev 1.5.1 (released 15th April, 2016)

News & Changes

- Bugfix: ColumnEvaluationMask for camera models with a sensor width of 1600
- Bugfix: RS232 laser communication for all C5-XXXXCSXX-XXXX models

Firmware Rev 1.5.2 (released 15th November, 2016)

News & Changes

- Ethernet Stability improved
- Serial Communication for setting the laser brightness of Z-Laser implemented
- Laser Controller given out to the terminal as selectable output
- DHCP Software retry strategy improved
- MultiSlopeMode based on SFNC 2.3
- AcquisitionLineRate added in 3D mode
- Backward Compatibility for LaserTurnOn based on 1.4.1
- AquisitionFrameRate calculates correct value depending on camera mode (2D / 3D)
- Light Controll Support for C5-2040-GigE cameras

Firmware Rev 1.5.3 (released 27th March, 2017)

News & Changes

- AOI Tracking Bug fixed

Firmware Rev 1.5.4 (released 28th March, 2018)

Added:

- AoiTracking and AoiSearch with new Algorithms (Range, Mean, Max, Min)
- AoiTracking Region/Offset
- AoiSearchMinNumPixel
- Activate temporal ColumnEvaluationMask (also when image acquisition is active)
- LightControl support for ZX Laser via I2C
- EventNotification via GenICam node access
- Add PixelFormat=Mono10

Fixed:

- Laser Power for Osela CL with corrected analogue voltage range (0.7V..4.2V -> 100%-0%)
- GevLinkSpeed (GenICam) shows now real link speed of device
- FileAccessControl behaviour now equal to GenICam definition (SFNC 2.3)

Changes:

- Renamed EventSelector Entries for AoiTracking and Transfer Start/End
- AoiTracking parameter now accessible when image acquisition is active
- AoiSearch parameter now accessible during image acquisition is active

C5-3360-GigE / C5-3360CS

Firmware Rev 1.0.0 (released 29th July, 2016)

News & Changes

- First official release

C5-4090-GigE / C5-4090CS

Firmware Rev 1.4.0 (released 24th March, 2016)

News & Changes

- Light Control (replacement for former laser control parameters: LaserPower, ...). Supports laser models from different vendors (Z-Laser, Coherent, Laser Components)
- FIRPeak Validation (Minimum Threshold Validation, FirstZeroCrossing)
- Service Web Interface

Limitations

- Bug: RS232 laser communication does not work for all C5-XXXXCSXX-XXXX models

Firmware Rev 1.4.1 (released 11th April, 2016)

News & Changes

- Bugfix: RS232 laser communication for all C5-XXXXCSXX-XXXX models

Firmware Rev 1.4.2 (released 17th May, 2016)

News & Changes

- Add Coherent Stingray Fault Bit Code as register value to LightModuleErrorStatus
- Add Coherent Stingray SYST:STAT validation to LightConnectionStatus. LaserFault and LaserHardwareFault check to set LightConnectionStatus value to SystemError.

Firmware Rev 1.4.3 (released 24th April, 2017)

News & Changes

- AOI Tracking Bug fixed
- Light Control Support
- OUT1, OUT2 added signal for LightController
- LightBrightnessControlMode: Analog and Serial Support (Serial for Z-Laser RS232 only)
- Improved Ethernet stability

Firmware Rev 1.4.4 (released 28th March, 2018)

Added:

- AoiTracking and AoiSearch with new Algorithms (Range, Mean, Max, Min)
- AoiTracking Region/Offset
- AoiSearchMinNumPixel
- Activate temporal ColumnEvaluationMask (also when image acquisition is active)
- LightControl support for ZX Laser via I2C
- EventNotification via GenICam node access

Fixed:

- Laser Power for Osela CL with corrected analog voltage range (0.7V..4.2V -> 100%-0%)
- GevLinkSpeed (GenICam) shows now real link speed of device
- FileAccessControl behaviour now equal to GenICam definition (SFNC 2.3)

Changes:

- Renamed EventSelector Entries for AoiTracking and Transfer Start/End
- AoiTracking parameter now accessible when image acquisition is active
- AoiSearch parameter now accessible during image acquisition is active

Document Revision

Rev. No.	Date	Modification
1.0.0	20.08.2014	First Draft. Add latest Firmware Revisions
1.0.1	28.08.2014	Add Firmware Information for C4-1280-GigE, Rev.1.5.0
1.0.2	18.09.2014	Add Firmware Information for C4/C2-2040/1600-GigE, Rev.1.4.0 Add Firmware Information for C2-640-GigE, Rev.1.2.0
1.0.3	13.02.2015	Add Firmware Information for C4/C2-2040/1600-GigE, Rev.1.4.1
1.1	16.06.2015	Changed revision to 1.1 and removed sub minor version (1.x.x)
1.2	23.07.2015	Add Firmware Information for C4-1280-GigE, Rev.1.5.1
1.3	23.02.2016	Add Firmware Information for C4-1280-GigE, Rev.1.5.2
1.4	25.04.2016	Add Firmware Information for C2-2040(HS)-GigE, Rev.1.5.1 Add Firmware Information for C4-2040(-4M)-GigE, Rev.1.5.1 Add Firmware Information for C5-2040(-4M)-GigE / C5-2040CS / C5-1600CS, Rev.1.5.0 Add Firmware Information for C5-2040(-4M)-GigE / C5-2040CS / C5-1600CS, Rev.1.5.1 Add Firmware Information for C5-4090-GigE / C5-4090CS, Rev.1.4.0 Add Firmware Information for C5-4090-GigE / C5-4090CS, Rev.1.4.1
1.5	24.11.2016	Add Firmware Information for C5-3360-GigE / C5-3360CS, Rev. 1.0.0 Add Firmware Information for C5-4090-GigE / C5-4090CS, Rev. 1.4.2
1.6	20.12.2016	Add Firmware Information for C2/C4/C5-2040/C5-2040CS/C5-1600CS-GigE, Rev. 1.5.2 Add Firmware Information C4-4090-GigE, Rev. 1.2.1
1.7	25.04.2017	Add Firmware Information for C2/C4/C5-2040/C5-2040CS/C5-1600CS-GigE, Rev. 1.5.3 Add Firmware Information for C5-4090-GigE, Rev. 1.4.3
1.8	22.09.2017	Add Firmware Information for C2-2040(HS)-GigE, Rev. 1.2.3, 1.2.4 and 1.2.5 Add Firmware Information for C4-2040(-4M)-GigE, Rev. 1.2.3, 1.2.4 and 1.2.5 Add Firmware Information for C5-1280-GigE / C5-1280CS, Rev. 1.1.0
1.9	28.03.2018	Add Firmware Information for CX-2040(+CS), Rev. 1.5.4 Add Firmware Information for C5-4090(+CS), Rev. 1.4.4 Add Firmware Information for C5-1280(+CS), Rev. 1.2.0
1.10	11.07.2018	Add Firmware Information for C5-1280(+CS), Rev. 1.2.1