

CHECKLIST

Feature Check: Mako G-507 > Alvium G1-507

V1.3.0
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Scope

Can your application with Mako G-507 be migrated to Alvium G1-507? The tables in this document are going to help you for an estimation. The features are grouped in tables by categories from A to Z. The categories are named according to the Mako feature tree. Maybe Alvium G1 provides functions you have been missing for Mako? See [Additional features and categories with Alvium G1](#) on page 2.

Reference

The following firmware versions were used for this document:

Mako G-507: V01.54.40105

Alvium G1-507: V00.13.00.71d891fe

You can compare the features in detail, using the features references for Mako and Alvium G1:



Mako and Alvium G1 features descriptions

For **Mako**, see the GigE Features Reference at www.alliedvision.com/fileadmin/content/documents/products/cameras/various/features/GigE_Features_Reference.pdf.

For **Alvium G1**, see the Alvium Features Reference at www.alliedvision.com/fileadmin/content/documents/products/cameras/various/features/Alvium_Features_Reference.pdf.

Features: Availability definition

The availability of features is displayed in a simple way:

Icon	Meaning	Description
✓	Equal	Features between Mako and Alvium G1 are the same. Some feature names differ.
(✓)	Similar	Features differ slightly. Typically, type differs between Float and Integer, or Enumeration options deviate. See the note below .
+	Added	This feature does not exist for Mako. It has been added for Alvium G1.
—	Missing	Missing: This Mako feature is not available with Alvium G1, yet.

Table 1: Status column legend



More detailed information on differences between features

For a list including Feature Types (Float/Integer...) and Enumerations, please contact support at www.alliedvision.com/en/about-us/contact-us/technical-support-repair-/rma.

Additional features and categories with Alvium G1

Alvium G1 features extending Mako functionalities are listed in the corresponding Mako categories, with the location in the G1 feature tree being stated. The feature set is continuously extended for Alvium G1 cameras. Sometimes, new categories are added.

This document uses the following headline convention for Mako and Alvium G1 categories:

Mako: /Acquisition

Category path with Mako cameras. Often, the naming of features and categories do not comply with the GenICam SFNC (Standard Feature Naming Convention).

Alvium G1: /DigitalIOControl/SerialHub

Category path with Alvium G1 cameras. The category naming has been aligned with the GenICam SFNC. In this example, SerialHub is a custom subcategory created by Allied Vision to further extend camera functions.

If not otherwise stated, these categories and subcategories are located in the **Camera** module as seen in **Vimba X Viewer**.



SFNC feature descriptions

For the **GenICam SFNC** (Standard Features Reference), see www.emva.org in the Standards section.

Features: Transitioning from Mako G-507 to Alvium G1-507

Mako: /Acquisition

Features in this table can be found in /AcquisitionControl for Alvium G1.

Status	Model	Mako feature name	Alvium G1 feature name
—	Mako	AcquisitionAbort	None
✓	Mako / G1	AcquisitionFrameCount	AcquisitionFrameCount
✓	Mako / G1	AcquisitionFrameRateAbs	AcquisitionFrameRate
—	Mako	AcquisitionFrameRateLimit	AcquisitionFrameRate
(✓)	Mako / G1	AcquisitionMode	
✓	Mako / G1	AcquisitionStart	
✓	Mako / G1	AcquisitionStop	
—	Mako	RecorderPreEventCount	None
✓ equal (✓) similar + added - missing			

Table 2: /Acquisition – Mako G-507 versus Alvium G1-507

Mako: /Acquisition/Trigger

Features in this table can be found in /AcquisitionControl for Alvium G1.

Status	Model	Mako feature name	Alvium G1 feature name
✓	Mako / G1	TriggerActivation	
✓	Mako / G1	TriggerDelayAbs	TriggerDelay
✓	Mako / G1	TriggerMode	
—	Mako	TriggerOverlap	None
(✓)	Mako / G1	TriggerSelector	
✓	Mako / G1	TriggerSoftware	
(✓)	Mako / G1	TriggerSource	
✓ equal (✓) similar + added - missing			

Table 3: /Acquisition/Trigger – Mako G-507 versus Alvium G1-507

Mako: /AcquisitionControl

Features in this table can be found in /AcquisitionControl for Alvium G1.

Status	Model	Mako feature name	Alvium G1 feature name
+	G1	None	AcquisitionFrameRateMode
+	G1	None	AcquisitionStatus
+	G1	None	AcquisitionStatusSelector
+	G1	None	ClockTriggerFrequency
+	G1	None	ClockTriggerTimestamp
+	G1	None	ExposureActiveMode
(✓)	Mako / G1	TriggerSource=FixedRate or TriggerMode=Off	AcquisitionFrameRateEnable
✓	Mako / G1	ExposureAuto	
✓ equal (✓) similar + added - missing			

Table 4: /AcquisitionControl – Mako G-507 versus Alvium G1-507

Mako: /ActionControl

Features in this table can be found in /ActionControl for Alvium G1.

Status	Model	Mako feature name	Alvium G1 feature name
✓	Mako / G1		ActionDeviceKey
✓	Mako / G1		ActionGroupKey
✓	Mako / G1		ActionGroupMask
+	G1	None	ActionQueueSize
✓	Mako / G1		ActionSelector
✓ equal (✓) similar + added - missing			

Table 5: /ActionControl – Mako G-507 versus Alvium G1-507

Mako: /BufferHandlingControl

Features in this table can be found in /BufferHandlingControl for Alvium G1.

Status	Model	Mako feature name	Alvium G1 feature name
✓	Mako / G1		StreamAnnounceBufferMinimum
✓	Mako / G1		StreamAnnouncedBufferCount
✓	Mako / G1		StreamBufferHandlingMode
✓ equal (✓) similar + added - missing			

Table 6: /BufferHandlingControl – Mako G-507 versus Alvium G1-507

Mako: /Controls

Features in this table can be found in /AnalogControl for Alvium G1.

Status	Model	Mako feature name	Alvium G1 feature name
✓	Mako / G1		Gamma ¹
✓	Mako / G1		Hue ²
✓	Mako / G1		Saturation ²
✓ equal (✓) similar + added - missing ¹ G1: /AnalogControl ² G1: ColorTransformationControl			

Table 7: /Controls – Mako G-507 versus Alvium G1-507

Mako: /Controls/BlackLevelControl

Features in this table can be found in /AnalogControl for Alvium G1.

Status	Model	Mako feature name	Alvium G1 feature name
✓	Mako / G1		BlackLevel
✓	Mako / G1		BlackLevelSelector
✓ equal (✓) similar + added - missing			

Table 8: /Controls/BlackLevelControl – Mako G-507 versus Alvium G1-507

Alvium G1: /ChunkDataControl

Features in this category enable including image parameters at the end of the image payload

Status	Model	Mako feature name	Alvium G1 feature name
+	G1	None	ChunkBalanceRatioBlue
+	G1	None	ChunkBalanceRatioRed
+	G1	None	ChunkEnable
+	G1	None	ChunkExposureTime
+	G1	None	ChunkGain
+	G1	None	ChunkHeight
+	G1	None	ChunkLineStatusAll
✓ equal (✓) similar + added - missing			

Table 9: /CorrectionControl – Mako G-507 versus Alvium G1-507 (sheet 1 of 2)

Status	Model	Mako feature name	Alvium G1 feature name
+	G1	None	ChunkOffsetX
+	G1	None	ChunkOffsetY
+	G1	None	ChunkSelector
+	G1	None	ChunkSequencerSetActive
+	G1	None	ChunkTimestamp
+	G1	None	ChunkWidth
✓ equal (✓) similar + added - missing			

Table 9: /CorrectionControl – Mako G-507 versus Alvium G1-507 (sheet 2 of 2)

Mako: /Controls/ColorTransformationControl

Features in this table can be found in /ColorTransformationControl for Alvium G1

Status	Model	Mako feature name	Alvium G1 feature name
(✓)	Mako / G1	ColorTransformationMode	ColorTransformationEnable
(✓)	Mako / G1	ColorTransformationSelector	
✓	Mako / G1	ColorTransformationValue	
✓	Mako / G1	ColorTransformationValueSelector	
✓ equal (✓) similar + added - missing			

Table 10: /Controls/ColorTransformationControl – Mako G-507 versus Alvium G1-507

Alvium G1: /CorrectionControl

Features in this category enable to control DefectPixelCorrection and FixedPatternNoiseCorrection.

Status	Model	Mako feature name	Alvium G1 feature name
+	G1	None	CorrectionMode
+	G1	None	CorrectionSelector
+	G1	None	CorrectionSet
+	G1	None	CorrectionSetDefault
✓ equal (✓) similar + added - missing			

Table 11: /CorrectionControl – Mako G-507 versus Alvium G1-507

Alvium G1: /CorrectionControl/CorrectionInfo

Features in this subcategory add functionalities to /CorrectionControl.

Status	Model	Mako feature name	Alvium G1 feature name
+	G1	None	CorrectionDataSize
+	G1	None	CorrectionEntryType
✓ equal (✓) similar + added - missing			

Table 12: /CorrectionControl/CorrectionInfo – Mako G-507 versus Alvium G1-507

Mako: /Controls/DSPSubregion

Features in this table can be found in /AutoModeControl for Alvium G1.

Status	Model	Mako feature name	Alvium G1 feature name
(✓)	Mako / G1	DSPSubregionBottom	AutoModeRegionOffsetY
(✓)	Mako / G1	DSPSubregionLeft	AutoModeRegionOffsetX
(✓)	Mako / G1	DSPSubregionRight	AutoModeRegionWidth
(✓)	Mako / G1	DSPSubregionTop	AutoModeRegionHeight
✓ equal (✓) similar + added - missing			

Table 13: /Controls/DSPSubregion – Mako G-507 versus Alvium G1-507

Alvium G1: /CounterAndTimerControl

Features in this category can be used to control DPC (Defect pixel correction) and FPNC (Fixed pattern noise correction) for image correction.

Status	Model	Mako feature name	Alvium G1 feature name
+	G1	None	CounterDuration
+	G1	None	CounterEventActivation
+	G1	None	CounterEventSource
+	G1	None	CounterReset
+	G1	None	CounterResetActivation
+	G1	None	CounterResetSource
✓ equal (✓) similar + added - missing			

Table 14: /CounterAndTimerControl – Mako G-507 versus Alvium G1-507 (sheet 1 of 2)

Status	Model	Mako feature name	Alvium G1 feature name
+	G1	None	CounterSelector
+	G1	None	CounterStatus
+	G1	None	CounterTriggerActivation
+	G1	None	CounterTriggerSource
+	G1	None	CounterValue
+	G1	None	CounterValueAtReset
+	G1	None	TimerDelay
+	G1	None	TimerDuration
+	G1	None	TimerReset
+	G1	None	TimerSelector
+	G1	None	TimerStatus
+	G1	None	TimerTriggerActivation
+	G1	None	TimerTriggerSource

✓ equal | (✓) similar | + added | - missing

Table 14: /CounterAndTimerControl – Mako G-507 versus Alvium G1-507 (sheet 2 of 2)

Mako: /Controls/Exposure

Features in this table can be found in /AcquisitionControl for Alvium G1.

Status	Model	Mako feature name	Alvium G1 feature name
(✓)	Mako / G1	ExposureMode	
(✓)	Mako / G1	ExposureTimeAbs	ExposureTime
—	Mako	ExposureTimeIncrement	Read API function Feature::GetIncrement()

✓ equal | (✓) similar | + added | - missing

Table 15: /Controls/Exposure – Mako G-507 versus Alvium G1-507

Mako: /Controls/Exposure/ExposureAutoControl

Features in this table can be found in /AutoModeControl for Alvium G1.

Status	Model	Mako feature name	Alvium G1 feature name
+	G1	None	AutoModeRegionSelector
(✓)	Mako / G1	ExposureAutoAdjustTol	IntensityControllerTolerance ¹
(✓)	Mako / G1	ExposureAutoAlg	IntensityControllerAlgorithm ¹
(✓)	Mako / G1	ExposureAutoMax	
(✓)	Mako / G1	ExposureAutoMin	
(✓)	Mako / G1	ExposureAutoOutliers	IntensityControllerOutliersBright ¹ IntensityControllerOutliersDark ¹
(✓)	Mako / G1	ExposureAutoRate	IntensityControllerRate ¹
(✓)	Mako / G1	ExposureAutoTarget	IntensityControllerTarget ¹
+	G1	None	IntensityAutoPrecedence
+	G1	None	IntensityControllerRegion
+	G1	None	IntensityControllerSelector
✓ equal (✓) similar + added - missing ¹ Depending on IntensityControllerSelector			

Table 16: /Controls/Exposure/ExposureAutoControl – Mako G-507 versus Alvium G1-507

Mako: /Controls/GainControl

Features in this table can be found in /AnalogControl for Alvium G1. Exceptions are stated in footnotes.

Status	Model	Mako feature name	Alvium G1 feature name
✓	Mako / G1	Gain	
✓	Mako / G1	GainAuto	
✓	Mako / G1	GainSelector	
(✓)	Mako / G1	GainAutoAdjustTol	IntensityControllerTolerance ¹
(✓)	Mako / G1	GainAutoMax	
(✓)	Mako / G1	GainAutoMin	
✓ equal (✓) similar + added - missing ¹ G1: /AutoModeControls			

Table 17: /Controls/GainControl – Mako G-507 versus Alvium G1-507 (sheet 1 of 2)

Status	Model	Mako feature name	Alvium G1 feature name
—	Mako / G1	GainAutoOutliers	None
(✓)	Mako / G1	GainAutoRate	IntensityControllerRate ¹
(✓)	Mako / G1	GainAutoTarget	IntensityControllerTarget ¹
✓ equal (✓) similar + added - missing ¹ G1: /AutoModeControls			

Table 17: /Controls/GainControl – Mako G-507 versus Alvium G1-507 (sheet 2 of 2)

Mako: /Controls/LUTControl

Features in this table can be found in /LUTControl for Alvium G1.

Status	Model	Mako feature name	Alvium G1 feature name
✓	Mako / G1		LUTEnable
(✓)	Mako / G1		LUTIndex
✓	Mako / G1		LUTLoadAll
—	Mako	LUTMode	None
✓	Mako / G1		LUTSaveAll
(✓)	Mako / G1		LUTSelector
(✓)	Mako / G1		LUTValue
+	G1	None	LUTValueAll
✓ equal (✓) similar + added - missing			

Table 18: /Controls/LUTControl – Mako G-507 versus Alvium G1-507

Mako: /Controls/LUTControl/LUTInfo

Features in this category are not available with Alvium G1 cameras.

Status	Model	Mako feature name	Alvium G1 feature name
—	Mako	LUTAddress	None
—	Mako	LUTBitDepthIn	None
—	Mako	LUTBitDepthOut	None
—	Mako	LUTSizeBytes	None
✓ equal (✓) similar + added - missing			

Table 19: /Controls/LUTControl/LUTInfo – Mako G-507 versus Alvium G1-507

Mako: /Controls/Whitebalance

Features in this table can be found in /AnalogControl for Alvium G1.

Status	Model	Mako feature name	Alvium G1 feature name
(✓)	Mako / G1	BalanceRatioAbs	BalanceRatio
✓	Mako / G1	BalanceRatioSelector	
✓	Mako / G1	BalanceWhiteAuto	
✓ equal (✓) similar + added - missing			

Table 20: /Controls/Whitebalance – Mako G-507 versus Alvium G1-507

Mako: /Controls/Whitebalance/BalanceWhiteAutoControl

Features in this table can be found in /AnalogControl for Alvium G1.

Status	Model	Mako feature name	Alvium G1 feature name
✓	Mako / G1	BalanceWhiteAutoAdjustTol	BalanceWhiteAutoTolerance
(✓)	Mako / G1	BalanceWhiteAutoRate	
✓ equal (✓) similar + added - missing			

Table 21: /Controls/Whitebalance/BalanceWhiteAutoControl – Mako G-507 versus Alvium G1-507

Mako: /DeviceStatus

Features in this table can be found in /DeviceControl for Alvium G1. For additional G1 features in this category, see [Alvium G1: /DeviceControl](#) on page 12.

Status	Model	Mako feature name	Alvium G1 feature name
✓	Mako / G1		DeviceTemperature
(✓)	Mako / G1		DeviceTemperatureSelector
✓ equal (✓) similar + added - missing			

Table 22: /DeviceStatus – Mako G-507 versus Alvium G1-507

Alvium G1: /DeviceControl

Features in this category can be used to display, such as the camera temperature and name, firmware version, or applied standard versions for GenCP and SFNC.

Status	Model	Mako feature name	Alvium G1 feature name
+	G1	None	DeviceFamilyName
+	G1	None	DeviceFirmwareIDSelector
+	G1	None	DeviceFirmwareVersionSelector
+	G1	None	DeviceGenCPVersionMajor
+	G1	None	DeviceGenCPVersionMinor
+	G1	None	DeviceIndicatorLuminance
+	G1	None	DeviceIndicatorMode
+	G1	None	DeviceLinkCommandTimeout
+	G1	None	DeviceLinkSpeed
+	G1	None	DeviceLinkThroughputLimitMode
+	G1	None	DeviceReset
+	G1	None	DeviceSFNCVersionMajor
+	G1	None	DeviceSFNCVersionMinor
+	G1	None	DeviceSFNCVersionSubMinor
+	G1	None	DeviceStreamChannelPacketSize
+	G1	None	DeviceTLVersionMajor
✓ equal (✓) similar + added - missing			

Table 23: /DeviceControl – Mako G-507 versus Alvium G1-507 (sheet 1 of 2)

Status	Model	Mako feature name	Alvium G1 feature name
+	G1	None	DeviceTLVersionMinor
+	G1	None	DeviceTemperatureStatus
✓ equal (✓) similar + added - missing			

Table 23: /DeviceControl – Mako G-507 versus Alvium G1-507 (sheet 2 of 2)

Alvium G1: /DigitalIOControl

Features in this category can be used to control the physical input and output lines of the camera.

Status	Model	Mako feature name	Alvium G1 feature name
+	G1	None	LineDebounceMode
+	G1	None	LineMode
+	G1	None	LineStatus
+	G1	None	SerialHubEnable
✓ equal (✓) similar + added - missing			

Table 24: /DigitalIOControl – Mako G-507 versus Alvium G1-507

Alvium G1: /DigitalIOControl/SerialHub

Features in this subcategory enable using the I/Os by UART for serial port. The category naming has been aligned with the GenICam SFNC (Standard Feature Naming Convention).

Status	Model	Mako feature name	Alvium G1 feature name
+	G1	None	SerialBaudRate
+	G1	None	SerialParityBit
+	G1	None	SerialRXData
+	G1	None	SerialRXSize
+	G1	None	SerialRXWaiting
+	G1	None	SerialStopBits
+	G1	None	SerialTXData
+	G1	None	SerialTXLock
✓ equal (✓) similar + added - missing			

Table 25: /DigitalIOControl/SerialHub – Mako G-507 versus Alvium G1-507 (sheet 1 of 2)

Status	Model	Mako feature name	Alvium G1 feature name
+	G1	None	SerialTXRemaining
+	G1	None	SerialTXSize
✓ equal (✓) similar + added - missing			

Table 25: /DigitalIOControl/SerialHub – Mako G-507 versus Alvium G1-507 (sheet 2 of 2)

Mako: /EventControl

Features in this table can be found in /EventControl for Alvium G1. For additional G1 features in this category, see [Alvium G1: /EventControl](#) on page 16.

Status	Model	Mako feature name	Alvium G1 feature name
(✓)	Mako / G1	EventNotification	
(✓)	Mako / G1	EventSelector	
—	Mako	EventsEnable1	None
✓ equal (✓) similar + added - missing			

Table 26: /EventControl – Mako G-507 versus Alvium G1-507

Mako: /EventControl/EventData

Features in this table can be found in /DeviceControl for Alvium G1. For additional G1 features in this category, see [Alvium G1: /EventControl](#) on page 16.

Status	Model	Mako feature name	Alvium G1 feature name
—	Mako	EventsEnable1	None
—	Mako	EventAcquisitionEndFrameID	None
(✓)	Mako / G1	EventAcquisitionEndTimestamp	
—	Mako	EventAcquisitionRecordTrigger FrameIDeID	None
—	Mako	EventAcquisitionRecordTrigger Timestamp	None
—	Mako	EventAcquisitionStartFrameID	None
(✓)	Mako / G1	EventAcquisitionStartTimestamp	
—	Mako	EventAction0FrameID	None
✓ equal (✓) similar + added - missing			

Table 27: /EventControl/EventData – Mako G-507 versus Alvium G1-507 (sheet 1 of 2)

Status	Model	Mako feature name	Alvium G1 feature name
(✓)	Mako / G1	EventAction0Timestamp	
—	Mako	EventAction1FrameID	None
(✓)	Mako / G1	EventAction1Timestamp	
—	Mako	EventErrorFrameID	None
—	Mako	EventErrorTimestamp	None
—	Mako	EventExposureEndFrameID	None
(✓)	Mako / G1	EventExposureEndTimestamp	
—	Mako	EventExposureStartFrameID	None
(✓)	Mako / G1	EventExposureStartTimestamp	
—	Mako	EventFrameTriggerFrameID	None
—	Mako	EventFrameTriggerTimestamp	None
—	Mako	EventFrameTriggerReadyFrameID	None
(✓)	Mako / G1	EventFrameTriggerReadyTimestamp	EventFrameTriggerWaitTimestamp
—	Mako	EventLine1FallingEdgeFrameID	None
(✓)	Mako / G1	EventLine1FallingEdgeTimestamp	
—	Mako	EventLine1RisingEdgeFrameID	None
(✓)	Mako / G1	EventLine1RisingEdgeTimestamp	
—	Mako	EventOverflowFrameID	None
(✓)	Mako / G1	EventOverflowTimestamp	
—	Mako	EventPtpSyncLockedFrameID	None
—	Mako	EventPtpSyncLockedTimestamp	None
—	Mako	EventPtpSyncLostFrameID	None
—	Mako	EventPtpSyncLostTimestamp	None

✓ equal | (✓) similar | + added | - missing

Table 27: /EventControl/EventData – Mako G-507 versus Alvium G1-507 (sheet 2 of 2)

Mako: /EventControl/EventID

Features in this table can be found in /EventControl for Alvium G1. For additional G1 features in this category, see [Alvium G1: /EventControl](#) on page 16.

Status	Model	Mako feature name	Alvium G1 feature name
(✓)	Mako / G1	EventAcquisitionEnd	
—	Mako	EventAcquisitionRecordTrigger	None
(✓)	Mako / G1	EventAcquisitionStart	
(✓)	Mako / G1	EventAction0	
(✓)	Mako / G1	EventAction1	
—	Mako	EventError	None
(✓)	Mako / G1	EventExposureEnd	
(✓)	Mako / G1	EventExposureStart	
(✓)	Mako / G1	EventFrameTrigger	
(✓)	Mako / G1	EventFrameTriggerReady	EventFrameTriggerWait
(✓)	Mako / G1	EventLine1FallingEdge	
(✓)	Mako / G1	EventLine1RisingEdge	
(✓)	Mako / G1	EventLine2FallingEdge	
(✓)	Mako / G1	EventLine2RisingEdge	
(✓)	Mako / G1	EventOverflow	
—	Mako	EventPtpSyncLocked	None
—	Mako	EventPtpSyncLost	None
✓ equal (✓) similar + added - missing			

Table 28: /EventControl/EventID – Mako G-507 versus Alvium G1-507

Alvium G1: /EventControl

Features in this category can be used to generate messages that are sent to the host application for notifying internal camera events.

Status	Model	Mako feature name	Alvium G1 feature name
+	G1	None	EventActionLate
+	G1	None	EventActionCounter<0...3>End
+	G1	None	EventActionCounter<0...3>Start
✓ equal (✓) similar + added - missing			

Table 29: /EventControl – Mako G-507 versus Alvium G1-507 (sheet 1 of 2)

Status	Model	Mako feature name	Alvium G1 feature name
+	G1	None	EventSequencerSetChange
+	G1	None	EventSoftwareSignal<0...1>
+	G1	None	EventTemperatureOK
+	G1	None	EventTemperatureOvertemperature
+	G1	None	EventTemperatureShutOff
+	G1	None	EventTemperatureWarning
+	G1	None	EventTest
+	G1	None	EventTimer<0...1>End
+	G1	None	EventTimer<0...1>Start

✓ equal | (✓) similar | + added | - missing

Table 29: /EventControl – Mako G-507 versus Alvium G1-507 (sheet 2 of 2)

Alvium G1: /FileAccessControl

Features in this category enable to read from and write files to the camera, including such as firmware, user data, or datasets for DPC (Defect pixel correction) and FPNC (Fixed pattern noise correction).

Status	Model	Mako feature name	Alvium G1 feature name
+	G1	None	FileAccessBuffer
+	G1	None	FileAccessLength
+	G1	None	FileAccessOffset
+	G1	None	FileOpenMode
+	G1	None	FileOperationExecute
+	G1	None	FileOperationResult
+	G1	None	FileOperationSelector
+	G1	None	FileOperationStatus
+	G1	None	FileProcessStatus
+	G1	None	FileSelector
+	G1	None	FileSize
+	G1	None	FileStatus

✓ equal | (✓) similar | + added | - missing

Table 30: /FileAccessControl – Mako G-507 versus Alvium G1-507

Mako: /GigE

Features in this table can be found in various categories for Alvium G1.

Status	Model	Mako feature name	Alvium G1 feature name
—	Mako	BandwidthControlMode	None
✓	Mako / G1	ChunkModeActive ¹	
✓	Mako / G1	GevSCPSPacketSize ²	
—	Mako	NonImagePayloadSize	None
✓	Mako / G1	PayloadSize ³	
(✓)	Mako / G1	StreamBytesPerSecond	DeviceLinkThroughputLimit ⁴
—	Mako	StreamFrameRateConstrain	None
✓ equal (✓) similar + added - missing ¹ G1: /ChunkDataControl ² G1: /GigE/GVCP ³ G1: TransportLayerControl ⁴ G1: DeviceControl			

Table 31: /GigE – Mako G-507 versus Alvium G1-507

Mako: /GigE/Configuration

Features in this table can be found in /TransportLayerControl/GigEVision for Alvium G1.

Status	Model	Mako feature name	Alvium G1 feature name
(✓)	Mako / G1	GevIPConfigurationMode	GevCurrentIPConfigurationDHCP GevCurrentIPConfigurationLLA GevCurrentIPConfigurationPersistentIP
+	G1	None	GevIPConfigurationStatus
✓ equal (✓) similar + added - missing			

Table 32: /GigE/Configuration – Mako G-507 versus Alvium G1-507

Mako: /GigE/Current

Features in this table can be found in /TransportLayerControl/GigEVision for Alvium G1.

Status	Model	Mako feature name	Alvium G1 feature name
✓	Mako / G1		GevCurrentDefaultGateway
✓	Mako / G1		GevCurrentIPAddress
✓	Mako / G1		GevCurrentSubnetMask
✓ equal (✓) similar + added - missing			

Table 33: /GigE/Current – Mako G-507 versus Alvium G1-507

Mako: /GigE/GVCP

Features in this table can be found in (Local Device module)/GigE/GVCP for Alvium G1.

Status	Model	Mako feature name	Alvium G1 feature name
✓	Mako / G1		GevHeartbeatInterval
✓	Mako / G1		GevHeartbeatTimeout
✓	Mako / G1		GVCPCmdRetries
✓	Mako / G1		GVCPCmdTimeout
✓ equal (✓) similar + added - missing			

Table 34: /GigE/GVCP – Mako G-507 versus Alvium G1-507

Mako: /GigE/Persistent

Features in this table can be found in /TransportLayerControl/GigEVision for Alvium G1.

Status	Model	Mako feature name	Alvium G1 feature name
✓	Mako / G1		GevCurrentIPAddress
✓	Mako / G1		GevCurrentSubnetMask
✓	Mako / G1		GevPersistentDefaultGateway
+	G1	None	GevPersistentIPAddress
+	G1	None	GevPersistentSubnetMask
✓ equal (✓) similar + added - missing			

Table 35: /GigE/Persistent – Mako G-507 versus Alvium G1-507

Mako: /GigE/PTP

Features in this table can be found in /PtpControl for Alvium G1. For additional G1 features in this category, see [Alvium G1: /PtpControl](#) on page 26.

Status	Model	Mako feature name	Alvium G1 feature name
—	Mako	PtpAcquisitionGateTime	None
(✓)	Mako / G1	PtpMode	PtpOperationMode
✓	Mako / G1	PtpStatus	
✓ equal (✓) similar + added - missing			

Table 36: /GigE/PTP – Mako G-507 versus Alvium G1-507

Mako: /GigE/StreamHold

Features in this category are not available with Alvium G1 cameras.

Status	Model	Mako feature name	Alvium G1 feature name
—	Mako	StreamHoldCapacity	None
—	Mako	StreamHoldEnable	None
✓ equal (✓) similar + added - missing			

Table 37: /GigE/StreamHold – Mako G-507 versus Alvium G1-507

Mako: /GigE/Timestamp

Features in this table can be found in /DeviceControl for Alvium G1.

Status	Model	Mako feature name	Alvium G1 feature name
✓	Mako / G1	GevTimestampControlLatch	TimestampLatch
✓	Mako / G1	GevTimestampControlReset	TimestampReset
—	Mako	GevTimestampTickFrequency	None
✓	Mako / G1	GevTimestampValue	TimestampLatchValue
✓ equal (✓) similar + added - missing			

Table 38: /GigE/Timestamp – Mako G-507 versus Alvium G1-507

Mako: /ImageFormat

Features in this table can be found in /ImageFormatControl for Alvium G1. Exceptions are stated in footnotes.

Status	Model	Mako feature name	Alvium G1 feature name
✓	Mako / G1		Height
✓	Mako / G1		HeightMax
✓	Mako / G1	ImageSize	PayloadSize ¹
✓	Mako / G1		OffsetX
✓	Mako / G1		OffsetY
(✓)	Mako / G1		PixelFormat
✓	Mako / G1		Width
✓	Mako / G1		WidthMax
✓ equal (✓) similar + added - missing ¹ G1: /TransportLayerControl			

Table 39: /ImageFormat – Mako G-507 versus Alvium G1-507

Alvium G1: /ImageFormatControl

Features in this category can be used to control or display pixel related data.

Status	Model	Mako feature name	Alvium G1 feature name
+	G1	None	BinningHorizontalMode
+	G1	None	BinningSelector
+	G1	None	BinningVerticalMode
+	G1	None	PixelSize
+	G1	None	ShutterMode
✓ equal (✓) similar + added - missing			

Table 40: /ImageFormatControl – Mako G-507 versus Alvium G1-507

Alvium G1: /ImageFormatControl/MultipleRegionControl

Features in this subcategory can be used to configure and control the multiple regions of the camera.

Status	Model	Mako feature name	Alvium G1 feature name
+	G1	None	MultipleRegionArrangement
+	G1	None	MultipleRegionEnable
+	G1	None	SubRegionHeight
+	G1	None	SubRegionMode
+	G1	None	SubRegionOffsetX
+	G1	None	SubRegionOffsetY
+	G1	None	SubRegionSelector
+	G1	None	SubRegionWidth

✓ equal | (✓) similar | + added | - missing

Table 41: /ImageFormatControl/MultipleRegionControl– Mako G-507 versus Alvium G1-507

Mako: /ImageMode

Features in this table can be found in /ImageFormatControl for Alvium G1. For additional G1 binning features in this category, see [Alvium G1: /ImageFormatControl](#) on page 21.

Status	Model	Mako feature name	Alvium G1 feature name
(✓)	Mako / G1	BinningHorizontal	
(✓)	Mako / G1	BinningVertical	
–	Mako	DecimationHorizontal	None
–	Mako	DecimationVertical	None
✓	Mako / G1	ReverseX	
✓	Mako / G1	ReverseY	
✓	Mako / G1	SensorHeight	
✓	Mako / G1	SensorWidth	

✓ equal | (✓) similar | + added | - missing

Table 42: /GigE/ImageMode – Mako G-507 versus Alvium G1-507

Alvium G1: /ImageProcessingControl

Features in this category can be used for color processing and image correction.

Status	Model	Mako feature name	Alvium G1 feature name
+	G1	None	AdaptiveNoiseSupressionFactor
+	G1	None	ColorInterpolation
+	G1	None	ConvolutionMode
+	G1	None	CustomConvolutionValue
+	G1	None	CustomConvolutionValueSelector
+	G1	None	Sharpness

✓ equal | (✓) similar | + added | - missing

Table 43: /ImageProcessingControl – Mako G-507 versus Alvium G1-507

Alvium G1: /ImageProcessingControl/ContrastControl

Features in this category can be used to control the image contrast.

Status	Model	Mako feature name	Alvium G1 feature name
+	G1	None	ContrastBrightLimit
+	G1	None	ContrastDarkLimit
+	G1	None	ContrastEnable
+	G1	None	ContrastShape

✓ equal | (✓) similar | + added | - missing

Table 44: /ImageProcessingControl/ContrastControl – Mako G-507 versus Alvium G1-507

Mako: /Info

Features in this table can be found in /DeviceControl for Alvium G1. Exceptions are stated in footnotes. For additional G1 features in this category, see [Alvium G1: /DeviceControl](#) on page 12.

Status	Model	Mako feature name	Alvium G1 feature name
✓	Mako / G1	DeviceFirmwareVersion	
✓	Mako / G1	DeviceID	DeviceSerialNumber
✓	Mako / G1	DeviceModelName	
✓	Mako / G1	DevicePartNumber	DeviceVersion
✓	Mako / G1	DeviceScanType	
✓	Mako / G1	DeviceUserID	
(✓)	Mako / G1	DeviceVendorName	DeviceManufacturerInfo
✓	Mako / G1	FirmwareVerBuild	DeviceFirmwareID
(✓)	Mako / G1	FirmwareVerMajor	DeviceFirmwareVersion
(✓)	Mako / G1	FirmwareVerMinor	DeviceFirmwareVersion
✓	Mako / G1	GevDeviceMACAddress ¹	
+	G1	None	GevMACAddress
✓	Mako / G1	SensorBits	SensorBitDepth ²
—	Mako	SensorType	None
✓ equal (✓) similar + added - missing ¹ G1: /Stream/Info ² G1: /ImageFormatControl			

Table 45: /Info – Mako G-507 versus Alvium G1-507

Mako: /IO/Strobe

Features in this table can be found in /CounterAndTimerControl for Alvium G1. For additional G1 features in this category, see [Alvium G1: /CounterAndTimerControl](#) on page 7.

Status	Model	Mako feature name	Alvium G1 feature name
(✓)	Mako / G1	StrobeDelay	TimerDelay
(✓)	Mako / G1	StrobeDuration	TimerDuration
(✓)	Mako / G1	StrobeDurationMode	TimerTriggerSource
(✓)	Mako / G1	StrobeSource	TimerTriggerSource
✓ equal (✓) similar + added - missing			

Table 46: /IO/Strobe – Mako G-507 versus Alvium G1-507

Mako: /IO/SyncIn

Features in this table can be found in /DigitalIOControl for Alvium G1. For additional G1 features in this category, see [Alvium G1: /DigitalIOControl](#) on page 13.

Status	Model	Mako feature name	Alvium G1 feature name
(✓)	Mako / G1	SyncInGlitchFilter	LineDebounceDuration
(✓)	Mako / G1	SyncInLevels	LineStyleAll
(✓)	Mako / G1	SyncInSelector	LineSelector
✓ equal (✓) similar + added - missing			

Table 47: /IO/SyncIn – Mako G-507 versus Alvium G1-507

Mako: /IO/SyncOut

Features in this table can be found in /DigitalIOControl for Alvium G1. For additional G1 features in this category, see [Alvium G1: /DigitalIOControl/SerialHub](#) on page 13.

Status	Model	Mako feature name	Alvium G1 feature name
(✓)	Mako / G1	SyncOutLevels	LineStyleAll
(✓)	Mako / G1	SyncOutPolarity	LineInverter
(✓)	Mako / G1	SyncOutSelector	LineSelector
(✓)	Mako / G1	SyncOutSource	LineSource
✓ equal (✓) similar + added - missing			

Table 48: /IO/SyncOut – Mako G-507 versus Alvium G1-507

Alvium G1: /LensShadingCorrection

Some lenses do not illuminate the image uniformly across the image plane. Brightness decreases towards the corners in circles. This effect is called lens shading. The features in this category can be used to compensate for this effect.

Status	Model	Mako feature name	Alvium G1 feature name
+	G1	None	LensShadingCenterOffsetX
+	G1	None	LensShadingCenterOffsetY
+	G1	None	LensShadingEnable
+	G1	None	LensShadingIndex
✓ equal (✓) similar + added - missing			

Table 49: /LensShadingCorrection – Mako G-507 versus Alvium G1-507 (sheet 1 of 2)

Status	Model	Mako feature name	Alvium G1 feature name
+	G1	None	LensShadingLoadAll
+	G1	None	LensShadingSaveAll
+	G1	None	LensShadingValue
✓ equal (✓) similar + added - missing			

Table 49: /LensShadingCorrection – Mako G-507 versus Alvium G1-507 (sheet 2 of 2)

Alvium G1: /PtpControl

Features in this category can be used to synchronize your camera, for example, with other cameras.

Status	Model	Mako feature name	Alvium G1 feature name
+	G1	None	PtpClockAccuracy
+	G1	None	PtpClockID
+	G1	None	PtpDataSetLatch
+	G1	None	PtpEnable
+	G1	None	PtpGrandmasterClockID
+	G1	None	PtpOffsetFromMaster
+	G1	None	PtpParentClockID
+	G1	None	PtpServoStatus
✓ equal (✓) similar + added - missing			

Table 50: /PtpControl – Mako G-507 versus Alvium G1-507

Mako: /SavedUserSets

Features in this table can be found in /UserSetControl for Alvium G1.

Status	Model	Mako feature name	Alvium G1 feature name
(✓)	Mako / G1	UserSetDefaultSelector	UserSetDefault
✓	Mako / G1		UserSetLoad
✓	Mako / G1		UserSetSave
✓	Mako / G1		UserSetSelector
✓ equal (✓) similar + added - missing			

Table 51: /SavedUserSets – Mako G-507 versus Alvium G1-507

Alvium G1: /SequencerControl

Features in this category can be used to trigger camera feature settings in sequencer sets during acquisition in a predefined order.



Using Alvium Sequencer features

The Alvium Sequencer is very powerful. We recommend you to read the Getting Started with the Alvium Sequencer application note at www.alliedvision.com/fileadmin/content/documents/products/cameras/Alvium_common/appnote/Getting-Started_Alvium_Sequencer.pdf to ease setting up your application.

Status	Model	Mako feature name	Alvium G1 feature name
+	G1	None	SequencerConfigurationMode
+	G1	None	SequencerConfigurationReset
+	G1	None	SequencerFeatureEnable
+	G1	None	SequencerFeatureSelector
+	G1	None	SequencerMode
+	G1	None	SequencerSetActive
+	G1	None	SequencerSetLoad
+	G1	None	SequencerSetSave
+	G1	None	SequencerSetSelector
+	G1	None	SequencerSetStart

✓ equal | (✓) similar | + added | - missing

Table 52: /SequencerControl – Mako G-507 versus Alvium G1-507

Alvium G1: /SequencerControl/SequencerPathControl

Features in this subcategory extend the abilities of SequencerControl features.

Status	Model	Mako feature name	Alvium G1 feature name
+	G1	None	SequencerPathSelector
+	G1	None	SequencerSetNext
+	G1	None	SequencerTriggerActivation
+	G1	None	SequencerTriggerSource

✓ equal | (✓) similar | + added | - missing

Table 53: /SequencerControl/SequencerPathControl – Mako G-507 versus Alvium G1-507

Alvium G1: /SoftwareSignalControl

Features in this category can be used by external devices to trigger actions within the camera by software commands.

Status	Model	Mako feature name	Alvium G1 feature name
+	G1	None	SoftwareSignalPulse
+	G1	None	SoftwareSignalSelector
✓ equal (✓) similar + added - missing			

Table 54: /SoftwareSignalControl – Mako G-507 versus Alvium G1-507

Mako: /Stream/Info

Features in this table can be found in /Stream/Info for Alvium G1.

Status	Model	Mako feature name	Alvium G1 feature name
✓	Mako / G1		GVSPFilterVersion
✓ equal (✓) similar + added - missing			

Table 55: /Stream/Info – Mako G-507 versus Alvium G1-507

Mako: /Stream/Multicast

Features in this table can be found in /Stream/Multicast for Alvium G1.

Status	Model	Mako feature name	Alvium G1 feature name
✓	Mako / G1		MulticastEnable
✓	Mako / G1		MulticastIPAddress
✓ equal (✓) similar + added - missing			

Table 56: /Stream/Multicast – Mako G-507 versus Alvium G1-507

Mako: /Stream/Settings

Features in this table can be found in /Stream/Settings for Alvium G1.

Status	Model	Mako feature name	Alvium G1 feature name
✓	Mako / G1		GVSPAdjustPacketSize
✓	Mako / G1		GVSPBurstSize
✓	Mako / G1		GVSPDriverSelector
✓	Mako / G1		GVSPHostReceiveBufferSize
✓	Mako / G1		GVSPMaxLookBack
✓	Mako / G1		GVSPMaxRequests
✓	Mako / G1		GVSPMaxWaitSize
✓	Mako / G1		GVSPMissingSize
✓	Mako / G1		GVSPPacketSize
✓	Mako / G1		GVSPTiltingSize
✓	Mako / G1		GVSPTimeout
✓ equal (✓) similar + added - missing			

Table 57: /Stream/Settings – Mako G-507 versus Alvium G1-507

Mako: /Stream/Statistics

Features in this table can be found in /Stream/Statistics for Alvium G1.

Status	Model	Mako feature name	Alvium G1 feature name
✓	Mako / G1	StatFramesDelivered	StatFrameDelivered
✓	Mako / G1	StatFramesDropped	StatFrameDropped
✓	Mako / G1		StatFrameRate
✓	Mako / G1	StatFramesRescued	StatFrameRescued
✓	Mako / G1	StatFramesShoved	StatFrameShoved
✓	Mako / G1		StatFrameUnderrun
✓	Mako / G1		StatLocalRate
✓	Mako / G1	StatPacketsErrors	StatPacketErrors
✓	Mako / G1	StatPacketsMissed	StatPacketMissed
✓	Mako / G1	StatPacketsReceived	StatPacketReceived
✓ equal (✓) similar + added - missing			

Table 58: /Stream/Statistics – Mako G-507 versus Alvium G1-507 (sheet 1 of 2)

Status	Model	Mako feature name	Alvium G1 feature name
✓	Mako / G1	StatPacketsRequested	StatPacketRequested
✓	Mako / G1	StatPacketsResent	StatPacketResent
✓	Mako / G1	StatPacketsUnavailable	StatPacketUnavailable
✓	Mako / G1	StatTimeElapsed	
✓ equal (✓) similar + added - missing			

Table 58: /Stream/Statistics – Mako G-507 versus Alvium G1-507 (sheet 2 of 2)

Mako: /StreamInformation

Features in this table can be found in /StreamInformation for Alvium G1.

Status	Model	Mako feature name	Alvium G1 feature name
✓	Mako / G1		StreamID
✓	Mako / G1		StreamType
✓ equal (✓) similar + added - missing			

Table 59: /StreamInformation – Mako G-507 versus Alvium G1-507

Alvium G1: /TestControl

Features in this category can be used to test if packets are transmitted successfully between the host and the camera.

Status	Model	Mako feature name	Alvium G1 feature name
+	G1	None	TestEventGenerate
+	G1	None	TestPendingAck
✓ equal (✓) similar + added - missing			

Table 60: /TransferControl – Mako G-507 versus Alvium G1-507

Alvium G1: /TransferControl

Features in this category can be used to acquire a sequence of images as a burst.

Status	Model	Mako feature name	Alvium G1 feature name
+	G1	None	TransferControlMode
+	G1	None	TransferQueueCurrentBlockCount
+	G1	None	TransferQueueMaxBlockCount
+	G1	None	TransferSelector

✓ equal | (✓) similar | + added | - missing

Table 61: /TransferControl – Mako G-507 versus Alvium G1-507

Document history

Version	Date	Remarks
V1.3.0	2024-Jan-08	<p>Firmware versions</p> <p>Mako G-507: V01.54.40105 Alvium G1-507: V00.13.00.71d891fe</p> <ul style="list-style-type: none"> • Reorganized Mako and Alvium G1 categories and features in a common section. • Added new features and categories for Alvium G1: <ul style="list-style-type: none"> - Mako: /AcquisitionControl on page 3: Added <code>ClockTriggerFrequency</code> and <code>ClockTriggerTimestamp</code> to synchronize triggering for several cameras. - Alvium G1: /ChunkDataControl on page 5: Added new category. - Alvium G1: /DeviceControl on page 12: Added <code>DeviceTemperatureStatus</code> as an indicator to take measures before the camera is shut off when the maximum operating temperature is exceeded. - EventControl: Added various features for Alvium G1 to Mako: /EventControl on page 14, Mako: /EventControl/EventData on page 14, Mako: /EventControl/EventID on page 16, and Alvium G1: /EventControl on page 16 - Mako: /Controls/LUTControl on page 10: Added <code>LUTLoadAll</code>, <code>LUTSaveAll</code>, and <code>LUTValueAll</code>. <p>Continued on next page</p>

Table 62: Document history

Version	Date	Remarks
V1.3.0	2024-Jan-08	<p>Continued from previous page</p> <p>Firmware versions</p> <p>Mako G-507: V01.54.40105 Alvium G1-507: V00.13.00.71d891fe</p> <ul style="list-style-type: none"> • Added new features and categories for Alvium G1: <ul style="list-style-type: none"> - Alvium G1: /ImageFormatControl/MultipleRegionControl on page 22: Added features to configure and control the multiple regions of the camera. (These features were available with firmware V00.12.00.00611a22e already.) - Alvium G1: /LensShadingCorrection on page 25: Added features to compensate for a decrease in brightness towards the image corners. - Alvium G1: /PtpControl on page 26: Added features to synchronize your camera, for example, with other cameras. - Alvium G1: /SequencerControl on page 27: Added features that can be used to trigger camera feature settings in sequencer sets during acquisition in a predefined order. (Except SequencerConfigurationReset, these features were available with firmware V00.12.00.00611a22e already. Some value ranges were changed with firmware V00.13.00.71d891fe.) - Alvium G1: /TestControl on page 30: Added features that can be used to trigger camera feature settings in sequencer sets during acquisition in a predefined order. (TestPendingAck, was available with firmware V00.12.00.00611a22e already. TestEventGenerate was added with firmware V00.13.00.71d891fe.) - Various single features that were skipped in previous document versions.
V1.2.0	2023-Nov-22	<p>Firmware versions</p> <p>Mako G-507: V01.54.40105 Alvium G1-507: V00.12.00.00611a22e</p> <ul style="list-style-type: none"> • Added note for additional ActionControl1 features for Alvium G1. • Updated note and table for Mako: /IO/SyncIn on page 25. • Updated note for Mako: /IO/SyncOut on page 25. • Added features available only with Alvium G1, in: <ul style="list-style-type: none"> - Mako: /ActionControl on page 4. - Alvium G1: /DigitalIOControl on page 13. - Alvium G1: /DigitalIOControl/SerialHub on page 13. - Alvium G1: /SoftwareSignalControl on page 28. - Alvium G1: /TransferControl on page 31.

Table 62: Document history

Version	Date	Remarks
V1.1.0	2022-Nov-03	Firmware versions Mako G-507: V01.54.40105 Alvium G1-507: V00.11.00.9cf0c21e <ul style="list-style-type: none"> • Added <code>ActionControl</code> category for Alvium G1. • Added Counter and some Timer features to <code>CounterAndTimerControl</code> category for Alvium G1. • Added Debounce features and <code>SerialHubEnable</code> to <code>DigitalIOControl</code> category for Alvium G1. • Added <code>DigitalIOControl/SerialHub</code> subcategory for Alvium G1. • Added <code>SoftwareSignalControl</code> category for Alvium G1. • Added <code>TransferControl</code> category for Alvium G1.
V1.0.1	2022-Jul-18	Firmware versions Mako G-507: V01.54.21000 Alvium G1-507: V00.10.00.2cf3b22e <ul style="list-style-type: none"> • Added link to the Alvium Features Reference. • Applied editorial changes.
V1.0.0	2022-Apr-29	Firmware versions Mako G-507: V01.54.21000 Alvium G1-507: V00.09.00.E23CB4E8

Table 62: Document history

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