

CHECKLIST

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

V1.2.0
2022-Nov-14

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 [Features: Additions for Alvium G1](#) on page 21.

Reference

The following firmware versions were used for this document:

Mako G-507: V01.54.40105

Alvium G1-507: V00.11.00.9cf0c21e

You can compare the features in detail, using the features references for 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.

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

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.

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

/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

/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

/AcquisitionControl



Additional features with Alvium G1

For additional features related to the features in this category, see [/AcquisitionControl](#) on page 21.

Status	Model	Mako feature name	Alvium G1 feature name
(✓)	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

/ActionControl



Additional features with Alvium G1

For additional features to enhance your application, see [/ActionControl](#) on page 21.

Status	Model	Mako feature name	Alvium G1 feature name
✓	Mako / G1	ActionDeviceKey	
✓	Mako / G1	ActionGroupKey	
✓	Mako / G1	ActionGroupMask	
✓	Mako / G1	ActionSelector	
✓ equal (✓) similar + added - missing			

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

/BufferHandlingControl

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

/Controls

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

/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

/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 9: /Controls/ColorTransformationControl – Mako G-507 versus Alvium G1-507

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

/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 11: /Controls/Exposure – Mako G-507 versus Alvium G1-507

/Controls/Exposure/ExposureAutoControl

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



Additional features with Alvium G1

For additional features related to the features in this category, see [/AutoModeControl](#) on page 21.

Status	Model	Mako feature name	Alvium G1 feature name
(✓)	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
✓ equal (✓) similar + added - missing ¹ Depending on IntensityControllerSelector			

Table 12: /Controls/Exposure/ExposureAutoControl – Mako G-507 versus Alvium G1-507

/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 13: /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	IntensityControllerOutliersBright ¹ IntensityControllerOutliersDark ¹
(✓)	Mako / G1	GainAutoRate	IntensityControllerRate ¹
(✓)	Mako / G1	GainAutoTarget	IntensityControllerTarget ¹
✓ equal (✓) similar + added - missing ¹ G1: /AutoModeControls			

Table 13: /Controls/GainControl – Mako G-507 versus Alvium G1-507 (sheet 2 of 2)

/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	LUTLoadAll	None
—	Mako	LUTMode	None
—	Mako	LUTSaveAll	None
(✓)	Mako / G1		LUTSelector
(✓)	Mako / G1		LUTValue
✓ equal (✓) similar + added - missing			

Table 14: /Controls/LUTControl – Mako G-507 versus Alvium G1-507

/Controls/LUTControl/LUTInfo

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

Table 15: /Controls/LUTControl/LUTInfo – Mako G-507 versus Alvium G1-507 (sheet 1 of 2)

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

Table 15: /Controls/LUTControl/LUTInfo – Mako G-507 versus Alvium G1-507 (sheet 2 of 2)

/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 16: /Controls/Whitebalance – Mako G-507 versus Alvium G1-507

/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 17: /Controls/Whitebalance/BalanceWhiteAutoControl – Mako G-507 versus Alvium G1-507

/CorrectionControl (Alvium G1)



Additional features with Alvium G1

For additional features to improve the image quality, see [/CorrectionControl](#) on page 21 and [/CorrectionControl/CorrectionInfo](#) on page 22.

/DeviceStatus

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

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

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

/EventControl

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

Table 19: /EventControl – Mako G-507 versus Alvium G1-507

/EventControl/EventData

Status	Model	Mako feature name	Alvium G1 feature name
—	Mako	EventsEnable1	None
—	Mako	EventAcquisitionEndFrameID	None
—	Mako	EventAcquisitionEndTimestamp	None
—	Mako	EventAcquisitionRecordTrigger FrameIDeID	None
—	Mako	EventAcquisitionRecordTrigger Timestamp	None
—	Mako	EventAcquisitionStartFrameID	None
—	Mako	EventAcquisitionStartTimestamp	None
—	Mako	EventAction0FrameID	None
—	Mako	EventAction0Timestamp	None
✓ equal (✓) similar + added - missing			

Table 20: /EventControl/EventData – Mako G-507 versus Alvium G1-507 (sheet 1 of 2)

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

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

Table 20: /EventControl/EventData – Mako G-507 versus Alvium G1-507 (sheet 2 of 2)

/EventControl/EventID

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

Table 21: /EventControl/EventID – Mako G-507 versus Alvium G1-507

/GigE

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

Table 22: /GigE – Mako G-507 versus Alvium G1-507 (sheet 1 of 2)

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

Table 22: /GigE – Mako G-507 versus Alvium G1-507 (sheet 2 of 2)

/GigE/Configuration

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

Table 23: /GigE/Configuration – Mako G-507 versus Alvium G1-507

/GigE/Current

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

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

/GigE/GVCP

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

/GigE/Persistent

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

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

/GigE/PTP

Alvium G1 support additional features.

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

Table 27: /GigE/PTP – Mako G-507 versus Alvium G1-507

/GigE/StreamHold

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

Table 28: /GigE/StreamHold – Mako G-507 versus Alvium G1-507

/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 29: /GigE/Timestamp – Mako G-507 versus Alvium G1-507

/ImageFormat

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



Additional features with Alvium G1

For additional features related to the features in this category, see [/ImageFormatControl](#) on page 26.

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

Table 30: /ImageFormat – Mako G-507 versus Alvium G1-507 (sheet 1 of 2)

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

Table 30: /ImageFormat – Mako G-507 versus Alvium G1-507 (sheet 2 of 2)

/ImageMode

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



Additional features with Alvium G1

For additional features related to the features in this category, see [/ImageFormatControl](#) on page 26.

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

/Info

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



Additional features with Alvium G1

For additional features related to the features in this category, see [/DeviceControl](#) on page 23.

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	
✓	Mako / G1	SensorBits	SensorBitDepth ²
—	Mako	SensorType	None
✓ equal (✓) similar + added - missing ¹ G1: /Stream/Info ² G1: /ImageFormatControl			

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

/IO/Strobe

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



Additional features with Alvium G1

For additional features related to the features in this category, see [/CounterAndTimerControl](#) on page 23.

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

/IO/SyncIn

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



Additional features with Alvium G1

For additional features related to the features in this category, see [/DigitalIOControl](#) on page 24 and [/DigitalIOControl/SerialHub](#) on page 25.

Status	Model	Mako feature name	Alvium G1 feature name
(✓)	Mako / G1	SyncInGlitchFilter	LineDebounceDuration
(✓)	Mako / G1	SyncInLevels	LineStatusAll
(✓)	Mako / G1	SyncInSelector	LineSelector

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

Table 34: /IO/SyncIn – Mako G-507 versus Alvium G1-507

/IO/SyncOut

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



Additional features with Alvium G1

For additional features related to the features in this category, see [/DigitalIOControl](#) on page 24 and [/DigitalIOControl/SerialHub](#) on page 25.

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

Table 35: /IO/SyncOut – Mako G-507 versus Alvium G1-507

/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 36: /SavedUserSets – Mako G-507 versus Alvium G1-507

/Stream/Info

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

Table 37: /Stream/Info – Mako G-507 versus Alvium G1-507

/Stream/Multicast

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

Table 38: /Stream/Multicast – Mako G-507 versus Alvium G1-507

/Stream/Settings

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

/Stream/Statistics

Status	Model	Mako feature name	Alvium G1 feature name
✓	Mako / G1		StatFramesDelivered
✓	Mako / G1		StatFramesDropped
✓	Mako / G1		StatFrameRate
✓	Mako / G1		StatFramesRescued
✓ equal (✓) similar + added - missing			

Table 40: /Stream/Statistics – Mako G-507 versus Alvium G1-507 (sheet 1 of 2)

Status	Model	Mako feature name	Alvium G1 feature name
✓	Mako / G1		StatFramesShoved
✓	Mako / G1		StatFrameUnderrun
✓	Mako / G1		StatLocalRate
✓	Mako / G1		StatPacketsErrors
✓	Mako / G1		StatPacketsMissed
✓	Mako / G1		StatPacketsReceived
✓	Mako / G1		StatPacketsRequested
✓	Mako / G1		StatPacketsResent
✓	Mako / G1		StatPacketsUnavailable
✓	Mako / G1		StatTimeElapsed
✓ equal (✓) similar + added - missing			

Table 40: /Stream/Statistics – Mako G-507 versus Alvium G1-507 (sheet 2 of 2)

/StreamInformation

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

Table 41: /Stream/Info – Mako G-507 versus Alvium G1-507

Features: Additions for Alvium G1

/AcquisitionControl

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	AcquisitionFrameRateMode
+	G1	None	AcquisitionStatus
+	G1	None	AcquisitionStatusSelector
+	G1	None	ExposureActiveMode
✓ equal (✓) similar + added - missing			

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

/ActionControl

The features in this category can be used by external devices to trigger actions within the camera by software commands. This includes ToE (Trigger over Ethernet) where the GigE interface is used for triggering instead of the I/Os..

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

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

/AutoModeControl

This category adds functionalities to control the image automatically.

Status	Model	Mako feature name	Alvium G1 feature name
+	G1	None	AutoModeRegionSelector
+	G1	None	IntensityAutoPrecedence
+	G1	None	IntensityControllerRegion
+	G1	None	IntensityControllerSelector
✓ equal (✓) similar + added - missing			

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

/CorrectionControl

The features in this category will 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 45: /CorrectionControl – Mako G-507 versus Alvium G1-507

/CorrectionControl/CorrectionInfo

These features add functionalities to /CorrectionControl.

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

Table 46: /CorrectionControl/CorrectionInfo – Mako G-507 versus Alvium G1-507

/CounterAndTimerControl

The category naming has been aligned with the GenICam SFNC (Standard Features Naming Convention).

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
	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 47: /CounterAndTimerControl – Mako G-507 versus Alvium G1-507

/DeviceControl

The category naming has been aligned with the GenICam SFNC (Standard Features Naming Convention).

Status	Model	Mako feature name	Alvium G1 feature name
+	G1	None	DeviceFamilyName
+	G1	None	DeviceFirmwareIDSelector

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

Table 48: /DeviceControl – Mako G-507 versus Alvium G1-507 (sheet 1 of 2)

Status	Model	Mako feature name	Alvium G1 feature name
+	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	DeviceTLVersionMajor
+	G1	None	DeviceTLVersionMinor

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

Table 48: /DeviceControl – Mako G-507 versus Alvium G1-507 (sheet 2 of 2)

/DigitalIOControl

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	LineDebounceMode
+	G1	None	LineMode
+	G1	None	LineStatus
+	G1	None	SerialHubEnable

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

Table 49: /DigitalIOControl – Mako G-507 versus Alvium G1-507

/DigitalIOControl/SerialHub

The 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	SerialTXRemaining
+	G1	None	SerialTXSize

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

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

/FileAccessControl

The features in this category will enable to load such as correction datasets used in /CorrectionControl.

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 51: /FileAccessControl – Mako G-507 versus Alvium G1-507

/ImageFormatControl

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	BinningHorizontalMode
+	G1	None	BinningSelector
+	G1	None	BinningVerticalMode
+	G1	None	PixelSize
+	G1	None	SensorShutterMode
✓ equal (✓) similar + added - missing			

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

/ImageProcessingControl

This category adds functionalities for color processing and image correction.

Status	Model	Mako feature name	Alvium G1 feature name
+	G1	None	AdaptiveNoiseSuppressionFactor
+	G1	None	ColorInterpolation
+	G1	None	ConvolutionMode
+	G1	None	CustomConvolutionValue
+	G1	None	CustomConvolutionValueSelector
+	G1	None	Sharpness
✓ equal (✓) similar + added - missing			

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

/ImageProcessingControl/ContrastControl

This category adds functionalities to control the image contrast.

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

Table 54: /ImageProcessingControl/ContrastControl – Mako G-507 versus Alvium G1-507 (sheet 1 of 2)

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

Table 54: /ImageProcessingControl/ContrastControl – Mako G-507 versus Alvium G1-507 (sheet 2 of 2)

/SoftwareSignalControl

The 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 55: /SoftwareSignalControl – Mako G-507 versus Alvium G1-507

/TransferControl

The features in this category can be used to acquire a sequence of images as a burst. 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	TransferControlMode
+	G1	None	TransferQueueCurrentBlockCount
+	G1	None	TransferQueueMaxBlockCount
+	G1	None	TransferSelector
✓ equal (✓) similar + added - missing			

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

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.xxxxxxx <ul style="list-style-type: none"> • Added ActionControl category for Alvium G1. • Added Counter and some Timer features to CounterAndTimerControl category for Alvium G1. • Added Debounce features and SerialHubEnable to DigitalIOControl category for Alvium G1. • Added DigitalIOControl/SerialHub subcategory for Alvium G1. • Added SoftwareSignalControl category for Alvium G1. • Added TransferControl 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 57: Document history

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