

GenICam SFNC 1.2 変更点総覧(対比表)

JAI Compact Series (CM/CB) GigE カメラ

2010.06.17

2010.7.1 以降に出荷される JAI GigE Camera では、SFNC1.2 に沿った環境での使用を可能にするため、幾つかの変更を加えています。
(以下、Compact GigE Camera の場合を中心に説明)

GenICam SFNC 1.2 に規定された機能名称・設定方法に変更

(1) ExposureTimeAbs が Integer

→ Float に変更

- ・ ShutterMode で ExposureTimeAbs と ExposureTimeRaw を選択し露光時間設定
→ ExposureTimeAbs と ExposureTimeRaw が連動する(数値(単位)が異なるが両方同じ露光時間になる)
- ・ ShutterMode とそれに連動する旧 ExposureTimeAbs と旧 ExposureTimeRaw は、それぞれ JAI_ShutterMode、JAI_ExposureTimeAbs、JAI_ExposureTimeRaw に名称変更

(これより以下において、“JAI_”が付く機能名は JAI 独自のカスタム名であることを表します。)

(2) AcquisitionFrameRate が IEnumeration

→ 削除

- ・ 旧 AcquisitionFrameRate は JAI_AcquisitionFrameRate に名称変更

(3) ExposureMode がカメラのトリガー動作の機能選択

→ 露光時間の選択(Timed, TriggerWidth)に変更

- ・ TriggerSelector と TriggerMode 新設
- ・ 旧 ExposureMode は JAI_ExposureMode として残す。
- ・ この JAI_ExposureMode の切り替えを TriggerMode と ExposureMode(、PrdumpMode、SequenceMode)の組み合わせで実現する。

他社製 SDK で必要とされる SFNC の機能を追加実装

(1) Acquisition Mode の Single Frame 追加

AcquisitionStart で 1Frame の映像データ(GVSP)を出力後、カメラは AcquisitionStop 状態になる。
ただし、HOST から AcquisitionStop が実行されるまで、GVSP の Block ID をインクリメントする。

(2) TriggerSelector 追加

カメラ露光を開始するトリガー: FrameStart

データ(GVSP)送信を開始するトリガー: TransferStart

※LineSelector(Digital I/O)の CameraTrigger0 と CameraTrigger1 をそれぞれ TriggerSelector の FrameStart と Transfer Start にとした。

(3) TriggerMode 追加

TriggerSelector で選択したトリガーを有効にする: On

TriggerSelector で選択したトリガーを無効にする: Off

※FrameStart の TriggerMode が Off の場合、カメラは自走(Continuous)で動作する

(4) TriggerSoftware 追加

TriggerSelector で選択したトリガーの TriggerSoftware が Software のとき、トリガーを発生する。

※カメラ内ファームウェアにより、UserOutput0 を使用してトリガーパルスを発生する。

(5) TriggerSource 追加

TriggerSelector で選択したトリガーに接続する信号を指定する。

※LineSelector の LineSource を TriggerSource にした。

(6) TriggerActivation 追加

トリガーが有効となる信号の指定。Rising Edge のみ。

※トリガーに入力する信号を反転する機能として Trigger Source Inverter を新設。LineInverter と同じ。

表現や選択方法を改善

- ・DeviceScanType、DeviceMaxThroughput 追加
- ・LineStatus、LineMode、LineFormat、LineStatusAll 追加
- ・UserOutputSelector、UserOutputValue 追加
- ・SequenceMode 追加
- ・Pulse Generator 表示項目追加(単位変換)
 - PulseGeneratorClock
 - PulseGeneratorLengthMs
 - PulseGeneratorFrequency
 - PulseGeneratorStartPointMs
 - PulseGeneratorEndPointMs
 - PulseGeneratorPulseWidthMs
- ・PulseGeneratorClear を PulseGeneratorClearActivation に変更
- ・PulseGeneratorClearSource と PulseGeneratorClearInverter 追加
 - Digital I/O の PulseGenerator0 の設定を Pulse Generators のグループに移動し名称変更
- ・GevSupportedOptionSelector、GevSupportedOption 追加
- ・Event 受信データ追加
- ・XML の表記の変更(ToolTip, Description, DisplayName)
- ・コントロールツールの表示の変更(Visibility, Representation)

一部 SFNC 1.3 に準拠した名称、機能を実装

- ・ExposureTime
 - ExposureTimeAbs と同じ
- ・Action Command のコントロールカテゴリ追加

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OffsetX	Offset X	I	R	W	-		
OffsetY	Offset Y	I	R	W	-		
LinePitch	Line Pitch	I	-	-	-		
PartialScan	Partial Scan	E	R	W	-		
FullFrame	Full Frame	EE	-	-	-		
Partial_2_3	Partial 2/3 lines	EE	-	-	-		
Partial_1_2	Partial 1/2 lines	EE	-	-	-		
Partial_1_4	Partial 1/4 lines	EE	-	-	-		
Partial_1_8	Partial 1/8 lines	EE	-	-	-		
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AcquisitionStart	Acquisition Start			←	←	←	←
C	R	-	-	←	←	←	←
AcquisitionStop	Acquisition Stop			←	←	←	←
			追加	TriggerSelector	Trigger Selector		E - - -
			追加	FrameStart	Frame Start		EE - - -
			追加	TransferStart	Transfer Start		EE - - -
			追加	TriggerMode	Trigger Mode		E - - -
			追加	Off	Off		EE - - -
			追加	On	On		EE - - -
			追加	TriggerSoftware	Trigger Software		C W - -
			追加	TriggerSource	Trigger Source		E R - -
			追加	Line5	Line5 - Optical In 1		EE - - -
			追加	Line6	Line6 - Optical In 2		EE - - -
			追加	Software	Software		EE - - -
			追加	UserOutput0	User Output 0 (Software Trigger 0)		EE - - -
			追加	UserOutput1	User Output 1 (Software Trigger 1)		EE - - -
			追加	UserOutput2	User Output 2 (Software Trigger 2) / Action 1		EE - - -
			追加	UserOutput3	User Output 3 (Software Trigger 3) / Action 2		EE - - -
			追加	PulseGenerator0	Pulse Generator 0		EE - - -
			追加	PulseGenerator1	Pulse Generator 1		EE - - -
			追加	PulseGenerator2	Pulse Generator 2		EE - - -
			追加	PulseGenerator3	Pulse Generator 3		EE - - -
			追加	NAND1Output	NAND 1 Output		EE - - -
			追加	NAND2Output	NAND 2 Output		EE - - -
			追加	Action1	Action 1		EE - - -
			追加	Action2	Action 2		EE - - -
			追加	NotConnected	Not Connected		EE - - -
			追加	TriggerActivation	Trigger Activation		E - - -
			追加	RisingEdge	Rising Edge		EE - - -
			追加	TriggerSourceInverter	Trigger Source Inverter		B R - -
AcquisitionFrameRate	Acquisition Frame Rate	SFNC と異なる	変更	JAIAcquisitionFrameRate	JAI Acquisition Frame Rate		← G ← * 1
fpsNormal				←	←	←	←

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fps1_2		EE	-	-	-			←	←	←	←	←	←	
fps1_4		EE	-	-	-			←	←	←	←	←	←	
fps1_8		EE	-	-	-			←	←	←	←	←	←	
ShutterMode	Shutter Mode	E	R	-	-		変更	JAIShutterMode	JAI Shutter Mode	←	←	G	←	* 1
PresetShutter	Preset Shutter	EE	-	-	-			←	←	←	←	←	←	
ProgrammableExposure	Programmable Exposure in lines	EE	-	-	-			←	←	←	←	←	←	
ExposureTimeAbs	Programmable Exposure (us)	EE	-	-	-			←	←	←	←	←	←	
PresetShutter	Preset Shutter	E	R	-	-		変更	JAI PresetShutter	JAI Preset Shutter	←	←	G	←	* 1
Off	Shutter off	EE	-	-	-			←	←	←	←	←	←	
Shutter_100	1/100 sec	EE	-	-	-	時間は機種別に異なる		←	←	←	←	←	←	
Shutter_120	1/120 sec	EE	-	-	-	(同上)		←	←	←	←	←	←	
Shutter_250	1/250 sec	EE	-	-	-	(同上)		←	←	←	←	←	←	
Shutter_500	1/500 sec	EE	-	-	-	(同上)		←	←	←	←	←	←	
Shutter_1000	1/1000 sec	EE	-	-	-	(同上)		←	←	←	←	←	←	
Shutter_2000	1/2000 sec	EE	-	-	-	(同上)		←	←	←	←	←	←	
Shutter_4000	1/4000 sec	EE	-	-	-	(同上)		←	←	←	←	←	←	
Shutter_8000	1/8000 sec	EE	-	-	-	(同上)		←	←	←	←	←	←	
Shutter_10000	1/10000 sec	EE	-	-	-	(同上)		←	←	←	←	←	←	
ExposureTimeRaw	Exposure Time Raw	I	R	-	-	ShutteModeで切り替えが必要	変更	JAIExposureTimeRaw	JAI Exposure Time Raw	←	←	G	L	* 1
ExposureTimeAbs	Exposure Time (us)	I	R	-	-	SFNC と異なる	変更	JAIExposureTimeAbs	JAI Exposure Time (us)	←	←	G	L	* 1
ExposureMode	Exposure Mode	E	R	-	-	SFNC と異なる	変更	JAIExposureMode	JAI Exposure Mode	←	←	G	←	* 1
Continuous	Continuous trigger	EE	-	-	-			←	←	←	←	←	←	
EdgePreSelect	Edge pre-select	EE	-	-	-			←	←	←	←	←	←	
PulseWidthControl	Pulse-width control	EE	-	-	-			←	←	←	←	←	←	
ResetContinuous	Reset continuous	EE	-	-	-			←	←	←	←	←	←	
SequentialEPSTrigger	Sequential EPS trigger	EE	-	-	-			←	←	←	←	←	←	
SequentialRCTTrigger	Sequential RCT trigger	EE	-	-	-			←	←	←	←	←	←	
DelayedReadoutEPSTrigger	Delayed readout EPS trigger	EE	-	-	-			←	←	←	←	←	←	
DelayedReadoutPWCTrigger	Delayed readout PWC trigger	EE	-	-	-			←	←	←	←	←	←	
DelayedReadoutRCTTrigger	Delayed readout RCT trigger	EE	-	-	-			←	←	←	←	←	←	
							追加	ExposureMode	Exposure Mode	E	-	-	-	
							追加	Timed	Timed	EE	-	-	-	
							追加	TriggerWidth	Trigger Width	EE	-	-	-	

変更前				変更後												
Name	DisplayName	I	A	V	R	Description	概要	Name	DisplayName	I	A	V	R	Description		
								ExposureTime	Exposure Time	F	R	-	L			
								ExposureTimeAbs	Exposure Time Abs	F	R	-	L			
								ExposureTimeRaw	Exposure Time Raw	I	R	-	L			
								PredumpMode	Pre-dump Mode	E	-	E	-			
								Off	Off	EE	-	-	-			
								On	On	EE	-	-	-			
								d) JAI Acquisition and Trigger Control JAI Acquisition Frame Rate 25 fps JAI Shutter Mode Preset Shutter JAI Preset Shutter Shutter off JAI Exposure Time Raw 1251 JAI Exposure Time (us) 40032 JAI Exposure Mode Continuous trigger								
								JAI Acquisition and Trigger Control	JAI Acquisition and Trigger Control	Ca	-	G	-			
								SFNC	同一名称で機能が異なるもの、あるいはそれに関連するものを移動							
								e) Analog Control Gain (Raw) 0 Black Level (Raw) 543 Digital Noise Filter Off								
AnalogControl								Ca		←	←	←	←	ToolTip, Description 修正		
GainRaw	Gain Raw	I	R	-	-				Gain (Raw)	←	←	←	←	ToolTip, Description 修正		
BlackLevelRaw	Black Level Raw	I	R	-	-				Black Level (Raw)	←	←	E	L	ToolTip, Description 修正		
NoiseReducer	Noise Reducer	E	R	-	-				Digital Noise Filter	←	←	E	←	ToolTip, Description 修正		
Off	Off	EE	-	-	-					←	←	←	←			
On	On	EE	-	-	-					←	←	←	←			

変更前				変更後									
Name	DisplayName	I	A	V	R	Description	Name	DisplayName	I	A	V	R	Description
<div style="display: flex; justify-content: space-between;"> <div style="width: 48%;"> <p>e) Digital I/O</p> <ul style="list-style-type: none"> <input type="checkbox"/> Line Selector Camera Trigger 0 <input type="checkbox"/> Line Source Off <input type="checkbox"/> Line Polarity Active High <input type="checkbox"/> Software Trigger 0 0 <input type="checkbox"/> Software Trigger 1 0 <input type="checkbox"/> Software Trigger 2 0 <input type="checkbox"/> Software Trigger 3 0 <input type="checkbox"/> User Output Selector User Output 0 <input type="checkbox"/> User Output Value False <input type="checkbox"/> GPIO Status All 0 <input type="checkbox"/> GPIO output port 1 Status False <input type="checkbox"/> GPIO output port 2 Status False <input type="checkbox"/> GPIO input port 1 Status False <input type="checkbox"/> GPIO input port 2 Status False </div> <div style="width: 48%;"> <p>f) Digital I/O Control</p> <ul style="list-style-type: none"> <input type="checkbox"/> Line Selector Line3 - Optical Out 1 <input type="checkbox"/> Line Source Off <input type="checkbox"/> Line Inverter False <input type="checkbox"/> Line Status False <input type="checkbox"/> Line Mode Output <input type="checkbox"/> Line Format Opto-Coupled <input type="checkbox"/> Line Status All 0 <input type="checkbox"/> User Output Selector User Output 0 <input type="checkbox"/> User Output Value False <input type="checkbox"/> Software Trigger 0 0 <input type="checkbox"/> Software Trigger 1 0 <input type="checkbox"/> Software Trigger 2 0 <input type="checkbox"/> Software Trigger 3 0 </div> </div>													
摘要													
DigitalIO	Digital I/O	Ca	-	-	-		DigitalIOControl	Digital I/O Control	←	←	←	←	ToolTip,Description 修正
LineSelector	Line Selector	E	-	-	-		←	←	←	←	E	←	ToolTip,Description 修正
CameraTrigger0	Camera Trigger 0	EE	-	-	-								TriggerSelector へ移動
CameraTrigger1	Camera Trigger 1	EE	-	-	-								(同上)
GPIO_Port1	GPIO PORT 1	EE	-	-	-		Line3	Line3 - Optical Out 1	←	←	←	←	ToolTip,Description 修正
GPIO_Port2	GPIO PORT 2	EE	-	-	-		Line4	Line4 - Optical Out 2	←	←	←	←	ToolTip,Description 修正
							Line5	Line5 - Optical In 1	EE	-	-	-	表示のみ
							Line6	Line6 - Optical In 2	EE	-	-	-	表示のみ
PulseGenerator0	Pulse Generator 0	EE	-	-	-								PulseGeneratorSelector へ移動
PulseGenerator1	Pulse Generator 1	EE	-	-	-								(同上)
PulseGenerator2	Pulse Generator 2	EE	-	-	-								(同上)
PulseGenerator3	Pulse Generator 3	EE	-	-	-								(同上)
TimeStampReset	TimeStamp Reset	EE	-	-	-		←	←	←	←	←	←	
NAND_1_in_1	NAND 1 In 1	EE	-	-	-		←	←	←	←	←	←	
NAND_1_in_2	NAND 1 In 2	EE	-	-	-		←	←	←	←	←	←	
NAND_2_in_1	NAND 2 In 1	EE	-	-	-		←	←	←	←	←	←	
NAND_2_in_2	NAND 2 In 2	EE	-	-	-		←	←	←	←	←	←	
LineSource	Line Source	E	R	-	-		←	←	←	←	←	E	ToolTip,Description 修正
Off	Off	EE	-	-	-		←	←	←	←	←	←	

変更前					変更後									
Name	DisplayName	I	A	V	R	Description	摘要	Name	DisplayName	I	A	V	R	Description
LVAL	LVAL	EE	-	-	-			←	←	←	←	←	←	
DVAL	DVAL	EE	-	-	-			←	←	←	←	←	←	
FVAL	FVAL	EE	-	-	-			←	←	←	←	←	←	
EEN	EEN	EE	-	-	-			←	←	←	←	←	←	
GPIO_PortIn1	GPIO Port In 1	EE	-	-	-		変更	Line5	Line5 - Optical In 1	←	←	←	←	
GPIO_PortIn2	GPIO Port In 2	EE	-	-	-		変更	Line6	Line6 - Optical In 2	←	←	←	←	
SoftwareTrigger0	Software Trigger 0	EE	-	-	-			←	←	←	←	←	←	
SoftwareTrigger1	Software Trigger 1	EE	-	-	-			←	←	←	←	←	←	
SoftwareTrigger2	Software Trigger 2	EE	-	-	-			←	Software Trigger 2 / Action 1	←	←	←	←	
SoftwareTrigger3	Software Trigger 3	EE	-	-	-			←	Software Trigger 3 / Action 2	←	←	←	←	
PulseGenerator0	Pulse Generator 0	EE	-	-	-			←	←	←	←	←	←	
PulseGenerator1	Pulse Generator 1	EE	-	-	-			←	←	←	←	←	←	
PulseGenerator2	Pulse Generator 2	EE	-	-	-			←	←	←	←	←	←	
PulseGenerator3	Pulse Generator 3	EE	-	-	-			←	←	←	←	←	←	
NAND1Output	NAND 1 Output	EE	-	-	-			←	←	←	←	←	←	
NAND2Output	NAND 2 Output	EE	-	-	-			←	←	←	←	←	←	
LineInverter	Line Polarity						追加	Action1	Action 1	EE	-	-	-	
ActiveHigh	Active High	E	R	-	-	SFNC と異なる	追加	Action2	Action 2	EE	-	-	-	
ActiveLow	Active Low	EE	-	-	-		変更	LineInverter	Line Inverter	B	-	E	-	Tool Tip, Description 修正
		EE	-	-	-		削除							
		EE	-	-	-		削除							
							追加	LineStatus	Line Status	B	R	E	-	
							追加	LineMode	Line Mode	E	R	E	-	
							追加	Input	Input	EE	-	-	-	
							追加	Output	Output	EE	-	-	-	
							追加	LineFormat	Line Format	E	R	E	-	
							追加	InternalSignal	Internal Logic Signal	EE	-	-	-	
							追加	TTL	TTL	EE	-	-	-	
							追加	LVDS	LVDS	EE	-	-	-	
							追加	OptoCoupled	Opto-Coupled	EE	-	-	-	
							追加	LineStatusAll	Line Status All	I	R	E	-	
SoftwareTrigger0	Software Trigger 0	I	W	-	-			←	←	←	←	←	←	Description 修正
SoftwareTrigger1	Software Trigger 1	I	W	-	-			←	←	←	←	←	←	Description 修正
SoftwareTrigger2	Software Trigger 2	I	W	-	-			←	←	←	←	←	←	Description 修正
SoftwareTrigger3	Software Trigger 3	I	W	-	-			←	←	←	←	←	←	Description 修正

変更前				変更後										
Name	DisplayName	I	A	V	R	Description	概要	Name	DisplayName	I	A	V	R	Description
UserOutputSelector	User Output Selector	E	-	-	-					←	←	←	←	
UserOutput0	User Output 0	EE	-	-	-					←	←	←	←	
UserOutput1	User Output 1	EE	-	-	-					←	←	←	←	
UserOutput2	User Output 2	EE	-	-	-					←	←	←	←	
UserOutput3	User Output 3	EE	-	-	-					←	←	←	←	
UserOutputValue	User Output Value	B	R	-	-					←	←	←	←	
			W	-	-					←	←	←	←	
GPIOStatusAll	GPIO Status All	I	R	-	-	LineStatusAllと 同じ	削除							
GPIOOutput1Status	GPIO output port 1 Status	B	R	-	-	LineStatus と同 じ	削除							
GPIOOutput2Status	GPIO output port 2 Status	B	R	-	-	LineStatus と同 じ	削除							
GPIOInput1Status	GPIO input port 1 Status	B	R	-	-	LineStatus と同 じ	削除							
GPIOInput2Status	GPIO input port 2 Status	B	R	-	-	LineStatus と同 じ	削除							
<div style="border: 1px solid black; padding: 5px;"> <p>f) Sequences</p> <p>Sequence Repetition Count 0</p> <p>Last Sequence 10</p> <p>Sequence Selector Sequence 1</p> <p>Sequence Exposure Time Raw 1251</p> <p>Sequence Master Gain Raw 0</p> <p>Sequence ROI Size X 1624</p> <p>Sequence ROI Size Y 1236</p> <p>Sequence ROI Offset X 0</p> <p>Sequence ROI Offset Y 0</p> <p>Save Sequence Settings Push to Execute Command ----></p> <p>Reset Sequence Settings Push to Execute Command ----></p> </div>														
Sequences	Sequences	Ca	-	-	-			SequenceControl	SequenceControl	←	←	←	←	ToolTip,Description 修正
							追加	SequenceMode	Sequence Mode	E	-	E	-	
							追加	Off	Off	EE	-	-	-	
							追加	On	On	EE	-	-	-	
SequenceRepetitions	Sequence Repetition Count	I	R	-	-					←	←	←	←	P
SequenceEndingPosition	Last Sequence	I	R	-	-					←	←	←	←	P
SequenceSelector	Sequence Selector	E	-	-	-					←	←	←	←	
Sequence1	Sequence 1	EE	-	-	-					←	←	←	←	
Sequence2	Sequence 2	EE	-	-	-					←	←	←	←	
Sequence3	Sequence 3	EE	-	-	-					←	←	←	←	

変更前										変更後									
Name	DisplayName	I	A	V	R	Description	摘要	Name	DisplayName	I	A	V	R	Description					
Sequence4	Sequence 4	EE	-	-	-					←	←	←	←						
Sequence5	Sequence 5	EE	-	-	-					←	←	←	←						
Sequence6	Sequence 6	EE	-	-	-					←	←	←	←						
Sequence7	Sequence 7	EE	-	-	-					←	←	←	←						
Sequence8	Sequence 8	EE	-	-	-					←	←	←	←						
Sequence9	Sequence 9	EE	-	-	-					←	←	←	←						
Sequence10	Sequence 10	EE	-	-	-					←	←	←	←						
SequenceExposureTimeRaw	Sequence Exposure Time Raw	I	R	-	-					←	←	←	←	E L					
SequenceMasterGain	Sequence Master Gain Raw	I	R	-	-					←	←	←	←	E L					
SequenceROISizeX	Sequence ROI Size X	I	R	-	-					←	←	←	←	E L					
SequenceROISizeY	Sequence ROI Size Y	I	R	-	-					←	←	←	←	E L					
SequenceROIOffsetX	Sequence ROI Offset X	I	R	-	-					←	←	←	←	E L					
SequenceROIOffsetY	Sequence ROI Offset Y	I	R	-	-					←	←	←	←	E L					
SequenceSaveCommand	Save Sequence Settings	C	W	-	-					←	←	←	←	E					
SequenceResetCommand	Reset Sequence Settings	C	W	-	-					←	←	←	←	E					
<input checked="" type="checkbox"/> e) Pulse Generators Clock Source 25 MHz Clock Pre-scaler 0 Pulse Generator Selector Pulse Generator 0 Pulse Generator Length 1 Pulse Generator Start Point 0 Pulse Generator End Point 1 Pulse Generator Repeat Count 0 Clear Mode for the Pulse Generators Free Run										<input checked="" type="checkbox"/> h) Pulse Generators Clock Source 25 MHz Clock Pre-scaler 1 Pulse Generator Clock 25.00000 Pulse Generator Selector Pulse Generator 0 Pulse Generator Length 1 Pulse Generator Repeat Count 0.00004 Pulse Generator Frequency 25000000.00000 Pulse Generator Start Point 0 Pulse Generator End Point 0.00000 Pulse Generator Repeat Count 1 Pulse Generator End Point 0.00004 Pulse Generator pulse-width (ms) 4E-05 Pulse Generator Repeat Count 0 Pulse Generator Clear Activation Free Run Pulse Generator Clear Source Off Pulse Generator Clear Inverter False									
PulseGenerators	Pulse Generators	Ca	-	-	-					←	←	←	←						
ClockSource	Clock Source	E	R	-	-					←	←	←	←	E					
MHz25	25 MHz	EE	-	-	-					←	←	←	←						
PixelClock	Pixel Clock (65MHz)	EE	-	-	-		機種別に異なる			←	←	←	←						

変更前				変更後										
Name	DisplayName	I	A	V	R	Description	概要	Name	DisplayName	I	A	V	R	Description
ClockPreScaler	Clock Pre-scaler	I	R	-	-	Min: 0 Max: 4095	変更	←	←	←	←	E	←	Min: 1 Max: 4096
PulseGeneratorSelector	Pulse Generator Selector	E	-	-	-		追加	PulseGeneratorClock	Pulse Generator Clock	F	-	B	Lo	
PulseGenerator0	Pulse Generator 0	EE	-	-	-			←	←	←	←	B	←	
PulseGenerator1	Pulse Generator 1	EE	-	-	-			←	←	←	←	←	←	
PulseGenerator2	Pulse Generator 2	EE	-	-	-			←	←	←	←	←	←	
PulseGenerator3	Pulse Generator 3	EE	-	-	-			←	←	←	←	←	←	
PulseGeneratorLength	Pulse Generator Length	I	R	-	-			←	←	←	←	E	L	ToolTip, Description 修正
PulseGeneratorStartPoint	Pulse Generator Start Point						追加	PulseGeneratorLengthMs	Pulse Generator Length	F	-	B	L	milliseconds
PulseGeneratorEndPoint	Pulse Generator End Point						追加	PulseGeneratorFrequency	Pulse Generator Frequency	F	-	B	L	Hz
PulseGeneratorRepeatCount	Pulse Generator Repeat Count	I	R	-	-			←	←	←	←	E	L	ToolTip, Description 修正
PulseGeneratorClear	Clear Mode for the Pulse Generators	E	R	-	-		追加	PulseGeneratorStartPointMs	Pulse Generator Start Point	F	-	B	L	milliseconds
FreeRun	Free Run	EE	-	-	-			←	←	←	←	E	L	ToolTip, Description 修正
HighLevel	High Level	EE	-	-	-			←	←	←	←	←	←	
LowLevel	Low Level	EE	-	-	-			←	←	←	←	←	←	
RisingEdge	Rising Edge	EE	-	-	-			←	←	←	←	←	←	
FallingEdge	Falling Edge	EE	-	-	-			←	←	←	←	←	←	
AnyEdge	Any Edge	EE	-	-	-			←	←	←	←	←	←	
SyncModeHighLevel	Synchronous Mode High Level	EE	-	-	-			←	←	←	←	←	←	
SyncModeLowLevel	Synchronous Mode Low Level	EE	-	-	-			←	←	←	←	←	←	
SyncModeRisingEdge	Synchronous Mode Rising Edge	EE	-	-	-			←	←	←	←	←	←	
SyncModeFallingEdge	Synchronous Mode Falling Edge	EE	-	-	-			←	←	←	←	←	←	
SyncModeAnyEdge	Synchronous Mode Any Edge	EE	-	-	-			←	←	←	←	←	←	
							追加	PulseGeneratorClearSource	Pulse Generator Clear Source	E	R	B	-	LineStyle から移動
							追加	Off	Off	EE	-	-	-	

変更前				変更後										
Name	DisplayName	I	A	V	R	Description	概要	Name	DisplayName	I	A	V	R	Description
							追加	LVAL	LVAL	EE	-	-	-	
							追加	DVAL	DVAL	EE	-	-	-	
							追加	FVAL	FVAL	EE	-	-	-	
							追加	Line5	Line5 - Optical In 1	EE	-	-	-	
							追加	Line6	Line6 - Optical In 2	EE	-	-	-	
							追加	SoftwareTrigger0	Software Trigger 0	EE	-	-	-	
							追加	SoftwareTrigger1	Software Trigger 1	EE	-	-	-	
							追加	SoftwareTrigger2	Software Trigger 2	EE	-	-	-	
							追加	SoftwareTrigger3	Software Trigger 3	EE	-	-	-	
							追加	PulseGenerator0	Pulse Generator 0	EE	-	-	-	
							追加	PulseGenerator1	Pulse Generator 1	EE	-	-	-	
							追加	PulseGenerator2	Software Trigger 2 / Action 1	EE	-	-	-	
							追加	PulseGenerator3	Software Trigger 3 / Action 2	EE	-	-	-	
							追加	NAND1Output	NAND 1 Output	EE	-	-	-	
							追加	NAND2Output	NAND 2 Output	EE	-	-	-	
							追加	Action1	Action 1	EE	-	-	-	
							追加	Action2	Action 2	EE	-	-	-	
							追加	PulseGeneratorClearInverter	Pulse Generator Clear Inverter	EE	-	-	-	

変更前		変更後	
Name	DisplayName	Name	DisplayName
I	A	V	R
Description	概要	Description	概要
<input checked="" type="checkbox"/> h) GigE Vision Transport Layer Control		<input checked="" type="checkbox"/> i) GigE Vision Transport Layer Control	
Payload Size	2007264	Payload Size	2007264
GigE Major Version	1	GigE Vision Major Version	1
GigE Minor Version	1	GigE Vision Minor Version	1
Is Big Endian	True	Is Big Endian	True
Character Set	UTF8	Character Set	UTF8
MAC Address	00-0C-DF-02-70-11	MAC Address	00-0C-DF-02-70-61
Supported LLA	True	GigE Vision Supported Option Selector	Link Local Address configuration
Supported DHCP	True	Supported Option	True
Supported Persistent IP	True	Supported LLA	True
Current IP Configuration LLA	True	Supported DHCP	True
Current IP Configuration DHCP	False	Supported Persistent IP	True
Current IP Configuration Persistent IP	True	Current IP Configuration LLA	True
Current IP Address	192.168.1.22	Current IP Configuration DHCP	True
Current Subnet Mask	255.255.255.0	Current IP Configuration Persistent IP	False
Current Default Gateway	0.0.0.0	Current IP Address	192.168.1.20
First URL	Local:JALCB-200GE_Ver122.zip:21	Current Subnet Mask	255.255.255.0
Second URL		Current Default Gateway	0.0.0.0
Number Of Interfaces	1	First URL	Local:JALCB-200GE_Ver202.zip:21
Persistent IP Address	192.168.199.14	Second URL	
Persistent Subnet Mask	255.255.255.0	Number Of Interfaces	1
Persistent Default Gateway	0.0.0.0	Persistent IP Address	192.168.100.1
Message Channel Count	1	Persistent Subnet Mask	255.255.255.0
Stream Channel Count	1	Persistent Default Gateway	0.0.0.0
Supported Optional Commands EVENTD	False	Message Channel Count	1
Supported Optional Commands EVENT	True	Stream Channel Count	1
Supported Optional Commands PACKET	True	Supported Optional Commands EVENTD	False
Supported Optional Commands WRITEIME	True	Supported Optional Commands EVENT	True
Supported Optional Commands Concat	True	Supported Optional Commands PACKET	True
Heartbeat Timeout	15000	Supported Optional Commands WRITEIME	True
Timestamp Tick Frequency	62500000	Supported Optional Commands Concat	True
Timestamp Control Latch	Push to Execute Command ---->	Heartbeat Timeout	15000
Timestamp Control Reset	Push to Execute Command ---->	Timestamp Tick Frequency	62500000
Timestamp Tick Value	0	Timestamp Control Latch	Push to Execute Command ---->
Control Channel Privilege feature	Control	Timestamp Control Reset	Push to Execute Command ---->
Message Channel Port	1498	Timestamp Tick Value	0
Message Channel Destination Address	192.168.1.21	Control Channel Privilege feature	Control Access
Message Channel Transmission Timeout	300	Message Channel Port	1495
Message Channel Retry Count	2	Message Channel Destination Address	192.168.1.21
Stream Channel Port	0	Message Channel Transmission Timeout	300
Do Not Fragment	True	Message Channel Retry Count	2
Packet Size	1428	Message Channel Source Port	1495
Packet Delay	0	Stream Channel Port	0
Stream Channel Destination Address	0.0.0.0	Do Not Fragment	True
Event GEV_EVENT_TRIGGER Enabled	False	Packet Size	1428
Event GEV_EVENT_START_OF_EXPOSUI	False	Packet Delay	0
Event GEV_EVENT_END_OF_EXPOSURE	False	Stream Channel Destination Address	0.0.0.0
Event GEV_EVENT_START_OF_TRANSF	False	Stream Channel Source Port	0
Event GEV_EVENT_END_OF_TRANSFER	False	Event GEV_EVENT_TRIGGER Enabled	False
Inter-Packet Delay Calculator		Event GEV_EVENT_START_OF_EXPOSUI	False
		Event GEV_EVENT_END_OF_EXPOSURE	False
		Event GEV_EVENT_START_OF_TRANSF	False
		Event GEV_EVENT_END_OF_TRANSFER	False
		Event GEV_EVENT_END_OF_TRANSFER	False
		Inter-Packet Delay Calculator	

変更前				変更後			
Name	DisplayName	Description	摘要	Name	DisplayName	Description	
I	A	V	R	I	A	V	R
GigETransportLayer	GigE Vision Transport Layer Control			←	←	←	←
PayloadSize	Payload Size			←	←	E	←
GevVersionMajor	GigE Major Version		変更	←	←	←	←
GevVersionMinor	GigE Minor Version		変更	←	←	←	←
GevDeviceModelsBigEndian	Is Big Endian			←	←	G	←
GevDeviceModeCharacterSet	Character Set			←	←	G	←
Unknown	Unknown			←	←	←	←
UTF8	UTF8			←	←	←	←
GevMACAddress	MAC Address			←	←	E	←
			追加	GevSupportedOptionSelector	GigE Vision Supported Option Selector		E - E -
			追加	IPConfigurationLLA	Link Local Address configuration		EE - -
			追加	IPConfigurationDHCP	DHCP configuration		EE - -
			追加	IPConfigurationPersistentIP	Persistent IP configuration		EE - -
			追加	StreamChannelSourceSocket	Stream Channel Source Socket		EE - -
			追加	MessageChannelSourceSocket	Message Channel Source Socket		EE - -
			追加	CommandsConcatenation	Command Concatenation		EE - -
			追加	WriteMem	Write Mem		EE - -
			追加	PacketResend	Packet Resend		EE - -
			追加	Event	Event		EE - -
			追加	EventData	Event Data		EE - -
			追加	PendingAck	Pending Ack		EE - -
			追加	Action	Action		EE - -
			追加	ExtendedStatusCodes	Extended Status Codes		EE - -
			追加	DiscoveryAckDelay	Discovery Ack Delay		EE - -
			追加	DiscoveryAckDelayWritable	Discovery Ack Delay Writable		EE - -
			追加	TestData	Test Data		EE - -
			追加	ManifestTable	Manifest Table		EE - -
			追加	CCPApplicationSocket	CCP Application Socket		EE - -
			追加	LinkSpeed	Link Speed		EE - -
			追加	HeartbeatDisable	Heartbeat Disable		EE - -
			追加	SerialNumber	Serial Number		EE - -
			追加	UserDefinedName	User-defined Name		EE - -

変更前				変更後			
Name	DisplayName	Description	概要	Name	DisplayName	Description	
I	A	V	R	I	A	V	R
GevTimestampTickFrequency	Timestamp Tick Frequency			I	R	E	-
GevTimestampControlLatch	Timestamp Control Latch			C	W	E	-
GevTimestampControlReset	Timestamp Control Reset			C	W	E	-
GevTimestampValue	Timestamp Tick Value			I	R	E	-
GevCCP	Control Channel Privilege feature			E	R	E	-
OpenAccess	Open Access			EE	-	-	-
Exclusive	Exclusive		変更	EE	-	-	-
Control	Control		変更	EE	-	-	-
ExclusiveControl	Exclusive Control			EE	-	-	-
GevMCPHostPort	Message Channel Port			I	R	E	-
GevMCDA	Message Channel Destination Address			I	R	E	-
GevMCTT	Message Channel Transmission Timeout		変更				
GevMCR	Message Channel Retry Count			I	R	E	-
GevSCPHostPort	Stream Channel Port			I	R	E	-
GevSCPDoNotFragment	Do Not Fragment			B	R	W	-
GevSCPSPacketSize	Packet Size		追加	I	R	W	-
GevSCPD	Packet Delay			I	R	W	-
GevSCDA	Stream Channel Destination Address			I	R	E	-
GevEventTrigger	Event GEV_EVENT_TRIGGER Enabled		追加	B	R	W	-
GevEventStartOfExposure	Event GEV_EVENT_START_OF_EXP OSURE Enabled			B	R	W	-
GevEventEndOfExposure	Event GEV_EVENT_END_OF_EXP OSURE Enabled			B	R	W	-

変更前				変更後										
Name	DisplayName	I	A	V	R	Description	概要	Name	DisplayName	I	A	V	R	Description
GevEventStartOfTransfer	Event GEV_EVENT_START_OF_TRANSFER Enabled	B	R	E	-			←	←	←	←	G	←	
GevEventEndOfTransfer	Event GEV_EVENT_END_OF_TRANSFER Enabled	B	R	E	-			←	←	←	←	G	←	
InterPacketDelayCalculator	Inter-Packet Delay Calculator	Ca	-	E	-			←	←	←	←	←	←	
GevSCPSPacketSize						(記載済み)		←	←	←	←	←	←	
PixelFormat						(記載済み)		←	←	←	←	←	←	
ExpectedBandwidthUsage	Expected Bandwidth Usage (%)	F	-	E	-			←	←	←	←	←	L	
MaxAcquisitionFrameRate	Maximum Acquisition Frame-rate (fps)	F	-	E	-			←	←	←	←	←	L	
InterPacketDelayEstimate	Inter-Packet Delay Estimate	F	-	E	-			←	←	←	←	←	←	
GevSCPD						(記載済み)		←	←	←	←	←	←	
InterPacketDelayCalculatorIntermediateValues	Intermediate Values	Ca	-	G	-			←	←	←	←	←	←	
PacketPayload	Image Packet Payload	I	-	G	-			←	←	←	←	←	←	
NumberOfPacketsPerImage	Number of Packets	I	-	G	-			←	←	←	←	←	←	
TotalImageSizeOnNetwork	Total Image Size (Payload + GYSP overhead)	I	-	G	-			←	←	←	←	←	←	
TotalImageTransmissionTimePerSecond	Total Image Transmission Time per second (s)	F	-	G	-			←	←	←	←	←	←	
TotalPauseTimePerSecond	Total Pause Time (s)	F	-	G	-			←	←	←	←	←	←	
InterPacketDelayTime	Inter-Packet Delay Time (s)	F	-	G	-			←	←	←	←	←	←	

変更前				変更後											
Name	DisplayName	Description	I	A	V	R	Description	Name	DisplayName	I	A	V	R	Description	
FrameTransferEnd	Frame Transfer End		EE	-	-	-		AcquisitionEnd	Acquisition End	←	←	←	←		
GPIOOutput1RisingEdge	GPIO Output 1 Rising Edge		EE	-	-	-		Line3RisingEdge	Optical Output 1 Rising Edge	←	←	←	←		
GPIOOutput1FallingEdge	GPIO Output 1 Falling Edge		EE	-	-	-		Line3FallingEdge	Optical Output 1 Falling Edge	←	←	←	←		
GPIOOutput2RisingEdge	GPIO Output 2 Rising Edge		EE	-	-	-		Line4RisingEdge	Optical Output 2 Rising Edge	←	←	←	←		
GPIOOutput2FallingEdge	GPIO Output 2 Falling Edge		EE	-	-	-		Line4FallingEdge	Optical Output 2 Falling Edge	←	←	←	←		
GPIOInput1RisingEdge	GPIO Input 1 Rising Edge		EE	-	-	-		Line5RisingEdge	Optical Input 1 Rising Edge	←	←	←	←		
GPIOInput1FallingEdge	GPIO Input 1 Falling Edge		EE	-	-	-		Line5FallingEdge	Optical Input 1 Falling Edge	←	←	←	←		
GPIOInput2RisingEdge	GPIO Input 2 Rising Edge		EE	-	-	-		Line6RisingEdge	Optical Input 2 Rising Edge	←	←	←	←		
GPIOInput2FallingEdge	GPIO Input 2 Falling Edge		EE	-	-	-		Line6FallingEdge	Optical Input 2 Falling Edge	←	←	←	←		
EventNotification	Event Notification		E	R	-	-		←	←	←	←	E	←		
Off	Disable		EE	-	-	-		←	Off	←	←	←	←		
GigEVisionEvent	Enable		EE	-	-	-		追加	On	EE	-	-	-		
								変更	GigE Vision Event	Ca	-	E	-		
								追加	Acquisition Trigger	Ca	-	E	-		
									EventAcquisitionTriggerData	Data	-	E	-		
								追加	EventAcquisitionTrigger	Event ID	I	R	E	-	
								追加	EventAcquisitionTriggerTimestamp	Timestamp	I	R	E	-	
								追加	EventAcquisitionStartData	Exposure Start Event Data	Ca	-	E	-	
								追加	EventExposureStart	Event ID	I	R	E	-	
								追加	EventExposureStartTimestamp	Timestamp	I	R	E	-	
								追加	EventAcquisitionEndData	Acquisition End Event Data	Ca	-	E	-	
								追加	EventExposureStart	Event ID	I	R	E	-	
								追加	EventExposureStartTimestamp	Timestamp	I	R	E	-	
								追加	EventExposureStartData	Exposure End Event Data	Ca	-	E	-	
								追加	EventExposureEnd	Event ID	I	R	E	-	
								追加	EventExposureEndTimestamp	Timestamp	I	R	E	-	
								追加	EventExposureEndData	Acquisition End Event Data	Ca	-	E	-	
								追加	EventAcquisitionEnd	Event ID	I	R	E	-	
								追加	EventAcquisitionEndTimestamp	Timestamp	I	R	E	-	
								追加	EventLine3RisingEdgeData	Optical Output 1 Rising Edge	Ca	-	E	-	
								追加	EventLine3RisingEdge	Event Data	Event ID	I	R	E	-
								追加	EventLine3RisingEdgeTimestamp	Timestamp	I	R	E	-	
								追加	EventLine3FallingEdgeData	Optical Output 1 Falling Edge	Ca	-	E	-	
								追加	EventLine3FallingEdge	Event Data	Event ID	I	R	E	-
								追加	EventLine3FallingEdgeTimestamp	Timestamp	I	R	E	-	

