Features Check List

INDUSTRIAL CAMERAS





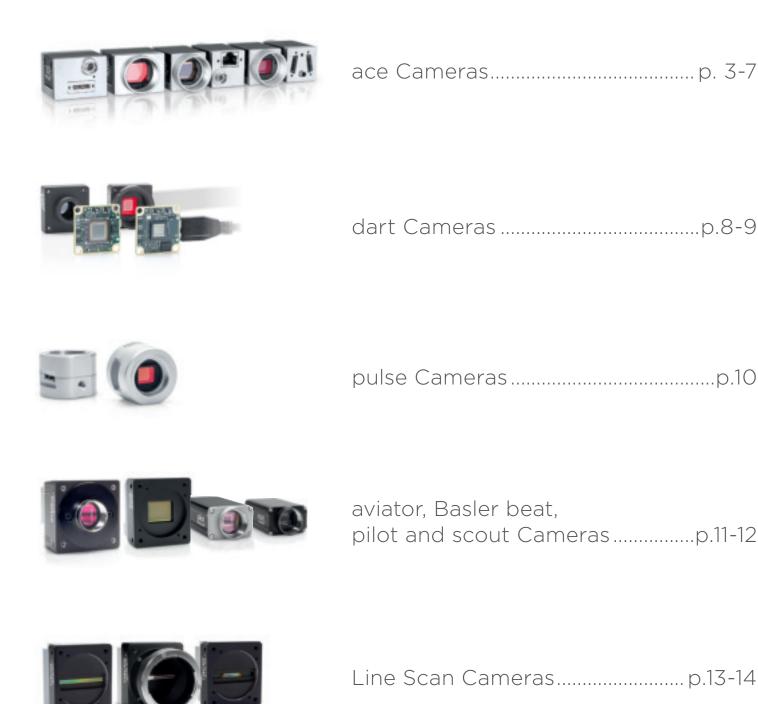














Other Information p.15-16



Sensors ace USB 3.0 Camera Models	Sony CCD acA640-90ux acA640-120ux acA1300-30ux acA1600-20ux	CMOSIS acA2000-165ux acA2040-90ux	ON Semi- conductor MT9P acA1920-25ux acA2500-14ux	ON Semi- conductor MT9J/F acA3800-14ux acA4600-10ux	ON Semi- conductor PYTHON acA640-750ux acA800-510ux acA1300-200ux acA1920-150ux acA2500-60ux	Sony Pregius acA720-520ux acA1440-220ux acA1920-155ux acA1920-40ux acA2040-55ux acA2040-55ux acA2440-75ux acA4096-30ux acA4096-40ux acA4112-20ux acA4112-30ux	Sony STARVIS acA3088-57u; acA4024-29u; Sony Exmor R acA5472-17ux	
	mono color	mono color	mono color	mono color	mono color	mono color	mono colo	
Physical Interface and I/O Control								
Configurable Input/Output Lines								
Inputs	1	1	1	1	1	1	1	
Outputs	1	1	1	1	1	1	1	
General Purpose I/O	2	2	2	2	2	2	2	
Debouncer	•	•	•	•	•	•	•	
Minimum Output Pulse Width	•	•	•	•	•	•	•	
/O Signals								
Frame Burst Start Wait	•	•	•	•	•	•	•	
Frame Start Wait	•	•	•	•	•	•	•	
Exposure Active Signal	•	•	•		•	•	•	
Flash Window Signal			•	•			•	
User Output	•	•	•	•	•	•	•	
Timer 1 Active	•	•	•	•	•	•	•	
lmage Acquisition Control								
Frame Burst Start Trigger	•	•	•	•	•	•	•	
Frame Start Trigger	•	•	•	•	•	•	•	
Triggered by Software	•	•	•	•	•	•	•	
Triggered by Hardware	•	•	•	•	•	•	•	
Trigger Delay	•	•	•	•	•	•	•	
Acquisition Status	•	•	•	•	•	•	•	
Standard Features								
Gain	•	•	•	•	•	•	•	
Gain Auto		•	•	•	•	•	•	
Black Level	•	•	•	•	•	•	•	
Digital Shift	•		•	•		•	•	
Region of Interest (ROI)	•	•	•	•	•	•	•	
Binning Horizontal	•	•	•	•	•	•	•	
Binning Vertical	•	•	•	•	•	•	•	
Decimation Horizontal				•				
Decimation Vertical		•		•				
Scaling Horizontal				•				
Scaling Vertical				•				
Reverse X (Horizontal Mirroring)	•	•	•	•	•	•	•	
Reverse Y (Vertical Mirroring)		•			•	•	•	
Gamma Correction	•	•	•	•	•	•	•	
Exposure Mode: Timed (Control via API)	•	•	•	•	•	•	•	
Exposure Mode: Trigger Width (Control via external trigger)	•	•			•	•		
Exposure Auto	•	•	•	•	•	•	•	
Auto Function Profile	•	•	•	•	•	•	•	
_ookup Table	•	•	•	•	•	•	•	
Test Images	•	•	•	•	•	•	•	
Sequencer	•	•	•	•	•	•	•	
Stacked ROI					•	•1		
Ultra Short Exposure Time Mode						• 2		

Ultra Short Exposure Time Mode

¹ not available for acA1920-40um/uc, acA2040-55um/uc, acA2440-35um/uc, acA4096-30um/uc, acA4112-20um/uc
² only available for acA720-520um/uc, acA1440-220um/uc



Sensors ace USB 3.0 Camera Models	Sony CCD acA640-90ux acA640-120ux acA1300-30ux acA1600-20ux	CMOSIS acA2000-165ux acA2040-90ux	ON Semi- conductor MT9P acA1920-25ux acA2500-14ux	ON Semi- conductor MT9J/F acA3800-14ux acA4600-10ux	ON Semi- conductor PYTHON acA640-750ux acA800-510ux acA1300-200ux acA1920-150ux acA2500-60ux	Sony Pregius acA720-520ux acA1440-220ux acA1920-155ux acA2940-120ux acA2040-55ux acA2440-75ux acA2440-75ux acA44096-30ux acA4112-20ux acA4112-20ux	Sony STARVIS acA3088-57u acA4024-29u Sony Exmor R acA5472-17ux
	mono color	mono color	mono color	mono color	mono color	mono color	mono colo
Miscellaneous							
Remove Parameter Limits	•	•	•	•	•	•	•
Jser Defined Values	•	•	•	•	•	•	•
Device Information Parameters	•	•	•	•	•	•	•
Jser Sets (Configuration Sets)	•	•	•	•	•	•	•
Device Temperature					•	•	•
Vignetting Correction						•1	• 2
Color Creation and Enhancement							
Balance White (Manual White Balance)	•		•	•		•	
Balance White (Manual White Balance) Balance White Auto (Automatic White Balance)							
Light Source Presets							
Color Transformation							
Color Adjustment (6 axis Hue/Saturation)							
PGI							•3
Chunks							
Silulika							
Timestamp	•	•	•	•	•	•	•
Counter Value	•	•	•	•	•	•	•
Line Status All	•	•	•	•	•	•	•
CRC Checksum	•	•	•	•	•	•	•
Sequencer Set Active	•	•	•	•	•	•	•
Exposure Time	•	•	•	•	•	•	•
Gain	•	•	•	•	•	•	•
Event Reporting							
Exposure End	•	•	•	•	•	•	•
Frame Start	•	•	•	•	•	•	•
Frame Start Wait	•	•	•	•	•	•	•
Frame Start Overtrigger	•	•	•	•	•	•	•
Frame Burst Start	•	•	•	•	•	•	•
Frame Burst Start Wait	•	•	•	•	•	•	•
Frame Burst Start Overtrigger	•	•	•	•	•	•	•
Critical Temperature					•	•	
Over Temperature					•	•	
Pixel Formats		_					
Mono 8	•		•	•	•	•	•
Mono 10 (Mono 10 Paskad)							
Mono 10p (Mono 10 Packed)							
Mono 12 Mono 12p (Mono 12 Packed)		•	•			•	•
YCbCr422_8 (YUV422_8)			•				•
Bayer 8	•		•	•		•	
Bayer 8 Bayer 10	•	•	•	•			
Bayer 10p (Bayer 10 Packed)							
Bayer 10 Packed)	•	•	•	•		•	•
Bayer 12p (Bayer 12 Packed)							
RGB 8	•				•	•	
3GR 8	•				•	•	
						_	

¹ not available for acA720-520ux, acA1440-220ux, acA2040-55ux, acA2040-120ux, acA2440-35ux, acA2440-75ux ² only available for acA3088-57ux, acA4024-29ux ³ only available for acA5472-17um



Inputs	Sensors ace GigE Camera Models	Sony CCD acA640-90gx acA640-120gx acA780-75gx acA1300-22gx acA1300-30gx acA1600-20gx	CMOSIS acA2000-50gx acA2040-25gx	e2V acA1280-60gx acA1300-60gx acA1600-60gx	ON Semi- conductor MT9P acA1920-25gx acA2500-14gx	ON Semi- conductor MT9J/F acA3800-10gx acA4600-7gc	ON Semi- conductor PYTHON aca640-300 gx aca800-200 gx aca1300-75 gx aca1320-48 gx aca1220-48 gx	Sony Pregius acA640-121gm acA720-290gx acA1440-73gx acA1920-40gx acA1920-50gx acA2040-35gx acA240-20gx acA240-11gx acA4112-8gx	Sony STARVIS acA3088-16g acA4024-8g Sony Exmor R acA5472-5g
Configurable Injust/Output Lines	Dhysiaal Interface and I/O Co		mono color	mono color	mono color	mono color	mono color	mono color	mono colo
Imputs	Physical Interface and I/O Co	ontroi				_			
Costputs	Configurable Input/Output Lines								
Central Purpose VO	Inputs	1	1	1	1	1	1	1	1
Debouncer Minimum Outub Pulse Width Line Source Signals Acquisition Stort Wait Exposure Active Exposure Active Exposure Active Exposure Active User Output Simulation Start Trigger Iname Start Trigger Ingepend by Softwan Triggered by Mardware Triggered by Mardware Triggered Delay Acquisition Status Sigie Wisen 2.0 Standard Features Gain Solin S	Outputs	1	1	1	1	1	1	1	1
Minimum Output Puter Worth Line Source Signeds Acquisition Start Walt Frame Start Weit Exposure Active Flish Window User Output Timer Active Image Acquisition Control Acquisition Start Trigger Forme Start Trigger Frame Start Trigger Fragered by Software Triggered by Hardware Triggered	General Purpose I/O						1	1	1
Line Source Signals Acquisition Start Wait Exposure Active Friend Start Wait Exposure Active Flish Window User Output Some User Output Immer Active Image Acquisition Control Acquisition Start Ingger Frame Start Trigger Inggered by Hardware	Debouncer	•	•	•	•	•	•	•	•
Acquisition Start Wait Excosure Active Flaan Window Deer Output Timer Active Image Acquisition Control Acquisition Start Tripger Tripgered by Software Tripgered by Hardware Iriggered by Hardware Iriggered by Hardware Iriggered by Hardware Iriggered by Software Tripgered by Software Tripgered by Hardware Iriggered by Hardware Ir	Minimum Output Pulse Width	•	•	•	•	•	•	•	•
Exposure Active	Line Source Signals								
Exposure Active Flash Window	Acquisition Start Wait	•	•	•	•	•	•	•	•
Biash Window User Output	Frame Start Wait	•	•	•	•	•	•	•	•
User Output Timer Active Image Acquisition Control Acquisition Start Trigger Frame Start Trigger Triggered by Software Triggered by Software Triggered by Hardware Triggered by	Exposure Active	•	•	•	•		•	•	•
Sync User Output Timer Active Image Acquisition Control Acquisition Start Trigger Frame Start Trigger Frame Start Trigger Triggered by Software Triggered by Hardware Triggered by Hardware Triggered by Software Triggered	Flash Window			•	•	•			•
Timer Active Image Acquisition Control Acquisition Start Trigger From Start Trigger Triggered by Software Triggered by Hardware Triggered by Hardware Triggered by Hardware Triggered by Hardware Triggered by Software Triggered by Hardware Triggered by Acquired by Hardware Triggered by Hardware Trigered by Hardwa	User Output	•	•	•	•	•	•	•	•
Image Acquisition Control Acquisition Start Trigger Frame Start Trigger Triggered by Software Triggered by Hardware Triggered by Hardware Trigger Delay Acquisition Status GigE Vision 2.0 Standard Features Gain Gain Auto Black Level DigitalShift DigitalShift Binning Horizontal Binning Horizontal Binning Horizontal Binning Horizontal Binning Horizontal Binning Vertical Becimation Vertical Scaling Vertical Reverse X (Horizontal Mirroring) Reverse Y (Vertical Mirroring) Reverse Y (Vertical Mirroring) Scalend Zone Imaging Gamma Correction Exposure Mota Trigger Width Control Via ordernal trigger) Exposure Potal Exposure Fine Mode GigE Vision 2.0 Precision Time Protocol (EEE 1888) Action Commands Giger Vision 2.0 Precision Time Protocol (EEE 1888) Action Commands Giger Vision 2.0	Sync User Output	•	•	•	•	•	•	•	•
Acquisition Start Trigger Frame Start Trigger Triggered by Software Triggered by Hardware Standard Features Sain Gain	Timer Active	•	•	•	•	•	•	•	•
Acquisition Start Trigger Frame Start Trigger Triggered by Software Triggered by Hardware Standard Features Sain Gain	Image Acquisition Control								
Frame Start Trigger Triggered by Software Trigger Delay Acquisition Status GigE Vision ZO Standard Features Gain Gain Auto Black Level DigitalShift Region of Interest (ROI) Blinning Horizontal Blinning Vertical Blinning Vertical Decimation Horizontal Scaling									
Triggered by Software Triggered by Hardware Triggered by Hardware Trigger Delay Acquisition Status Giale Vision 2.0 Standard Features Gain Gain Auto Black Level DiptialShirt Region of Interest (ROI) Binning Horizontal Binning Horizontal Binning Horizontal Decimation Horizontal Decimation Vertical Scaling Horizontal Scaling Vertical Scaling Horizontal Scaling Horizontal Beverse X (Horizontal Mirroring) Reverse X (Horizontal Mirroring) Reverse X (Horizontal Mirroring) Scaled Zone Imaging Gamma Correction Exposure Mode: Trigger Width (Control via external trigger) Exposure Mode: Trigger Width (Control via external trigger) Exposure Mode: Trigger Width (Control via external trigger) Exposure Auto Auto Function Profile Lookup Table (LUT) Test Images Sequencer	Acquisition Start Trigger	•	•	•	•	•	•	•	•
Triggered by Hardware Trigger Delay Acquisition Status GigE Vision 2.0 Standard Features Gain	Frame Start Trigger	•	•	•	•	•	•	•	•
Trigger Delay Acquisition Status Gigle Vision 2.0 Standard Features Gain Gain Gan Auto Black Level Digital Shift Region of Interest (ROI) Binning Vertical Decimation Horizontal Binning Vertical Decimation Horizontal Decimation Horizontal Scaling Horizontal Scaling Horizontal Scaling Horizontal Scaling Horizontal Scaling Vertical Scaling Horizontal Scaling Hor	Triggered by Software	•	•	•	•	•	•	•	•
Acquisition Status GigE Vision 2.0 Standard Features Gain Gain Auto Gain Auto Gain Auto GigE Vision 2.0 Standard Features Gain Auto JogitalShift Region of Interest (ROI) JogitalShift Region of Interest (ROI) JogitalShift Region of Interest (ROI) JogitalShift Region of Interest (ROI) JogitalShift Region of Interest (ROI) JogitalShift Region of Interest (ROI) JogitalShift Region of Interest (ROI) JogitalShift Region of Interest (ROI) JogitalShift Region of Interest (ROI) JogitalShift Region of Interest (ROI) JogitalShift JogitalSh	Triggered by Hardware	•	•	•	•	•	•	•	•
Standard Features Stan	Trigger Delay	•	•	•	•	•	•	•	•
Standard Features Sain Auto Sain Aut	Acquisition Status	•	•	•	•	•	•	•	•
Gain Auto Gain Auto Black Level DigitalShift Region of Interest (ROI) Binning Horizontal Binning Vertical Decimation Vertical Decimation Vertical Decimation Vertical Scaling Horizontal Decimation Vertical Scaling Horizontal Scaling Vertical Decimation Vertical Scaling Vertical Decimation Vertical Scaling Vertical Scaling Vertical Scaling Vertical Reverse Y (Vertical Mirroring) Scaling Vertical Reverse Y (Vertical Mirroring) Stacked Zone Imaging Gamma Correction Exposure Mode: Trigger Width (Control via external trigger) Exposure Mode: Trigger Width Control via external trigger) Exposure Auto Auto Function Profile Lookup Table (LUT) Sequencer Sequencer Squencer Squencer Stacked ROI Ultra Short Exposure Time Mode GigE Vision 2.0 Precision Time Protocol (IEEE 1588) Action Commands (Synchronous Triggering)	GigE Vision 2.0						•	•	•
Gain Auto Black Level DigitalShift Region of Interest (ROI) Binning Horizontal Binning Vertical Binning Vertical Decimation Horizontal Decimation Vertical Scaling Horizontal Scaling Horizontal Scaling Horizontal Scaling Vertical Scaling Vertica	Standard Features								
Gain Auto Black Level DigitalShift Region of Interest (ROI) Binning Horizontal Binning Vertical Binning Vertical Decimation Horizontal Decimation Vertical Scaling Horizontal Scaling Horizontal Scaling Horizontal Scaling Vertical Scaling Vertica	Gain	•	•	•	•	•	•	•	•
Black Level DigitalShift Region of Interest (ROI) Binning Horizontal Binning Vertical Decimation Horizontal Decimation Horizontal Decimation Vertical Scaling Horizontal Scaling Horizontal Scaling Vertical Reverse X (Horizontal Mirroring) Reverse X (Horizontal Mirroring) Reverse Y (Vertical Mirroring) Stacked Zone Imaging Gamma Correction Exposure Mode: Trigger Width (Control via external trigger) Exposure Auto Auto Function Profile Lookup Table (LUT) Test Images Sequencer Stacked ROI Ultra Short Exposure Time Mode GigE Vision 2.0 Precision Time Protocol (IEEE 1588) Action Commands (Synchronous Triggering)		•	•	•	•	•	•	•	•
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Region of Interest (ROI) Binning Horizontal Binning Vertical Decimation Horizontal Decimation Vertical Scaling Horizontal Decimation Vertical Scaling Horizontal Scaling Vertical Scaling Vertical Scaling Vertical Reverse X (Horizontal Mirroring) Reverse X (Horizontal Mirroring) Reverse Y (Vertical Mirroring) Stacked Zone Imaging Gamma Correction Staposure Mode: Trigger Width (Control via external trigger) Exposure Auto Auto Function Profile Lookup Table (LUT) Test Images Sequencer Stacked ROI Ultra Short Exposure Time Mode Precision Time Protocol (IEEE 1588) Action Commands (Synchronous Triggering)									
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Scaling Horizontal Scaling Vertical Reverse X (Horizontal Mirroring) Reverse Y (Vertical Mirroring) Stacked Zone Imaging Gamma Correction Exposure Mode: Trigger Width (Control via external trigger) Exposure Auto Auto Function Profile Lookup Table (LUT) Test Images Sequencer Stacked ROI Ultra Short Exposure Time Mode Precision Time Protocol (IEEE 1588) Action Commands (Synchronous Triggering)				• 1		•			
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Reverse X (Horizontal Mirroring) Reverse Y (Vertical Mirroring) Stacked Zone Imaging Gamma Correction Exposure Mode: Trigger Width (Control via external trigger) Exposure Auto Auto Function Profile Lookup Table (LUT) Test Images Sequencer Stacked ROI Ultra Short Exposure Time Mode GigE Vision 2.0 Precision Time Protocol (IEEE 1588) Action Commands (Synchronous Triggering)						•			
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Gamma Correction Exposure Mode: Trigger Width (Control via external trigger) Exposure Auto Auto Function Profile Lookup Table (LUT) Test Images Sequencer Stacked ROI Ultra Short Exposure Time Mode Precision Time Protocol (IEEE 1588) Action Commands (Synchronous Triggering)			•				•	• 2	•
Exposure Mode: Trigger Width (Control via external trigger) Exposure Auto Auto Function Profile Lookup Table (LUT) Test Images Sequencer Stacked ROI Ultra Short Exposure Time Mode GigE Vision 2.0 Precision Time Protocol (IEEE 1588) Action Commands (Synchronous Triggering)			•						
(Control via external trigger) Exposure Auto Auto Function Profile Lookup Table (LUT) Test Images Sequencer Stacked ROI Ultra Short Exposure Time Mode GigE Vision 2.0 Precision Time Protocol (IEEE 1588) Action Commands (Synchronous Triggering)		•	•	•	•	•	•	•	•
Exposure Auto Auto Function Profile Lookup Table (LUT) Test Images Sequencer Stacked ROI Ultra Short Exposure Time Mode GigE Vision 2.0 Precision Time Protocol (IEEE 1588) Action Commands (Synchronous Triggering)		•	•				•	•	
Auto Function Profile Lookup Table (LUT) Test Images Sequencer Stacked ROI Ultra Short Exposure Time Mode GigE Vision 2.0 Precision Time Protocol (IEEE 1588) Action Commands (Synchronous Triggering)									
Lookup Table (LUT) Test Images Sequencer Stacked ROI Ultra Short Exposure Time Mode GigE Vision 2.0 Precision Time Protocol (IEEE 1588) Action Commands (Synchronous Triggering)									
Test Images Sequencer Stacked ROI Ultra Short Exposure Time Mode GigE Vision 2.0 Precision Time Protocol (IEEE 1588) Action Commands (Synchronous Triggering)		•	•	•	•	•	•	•	•
Sequencer Stacked ROI Ultra Short Exposure Time Mode GigE Vision 2.0 Precision Time Protocol (IEEE 1588) Action Commands (Synchronous Triggering)		•	•	•	•	•	•	-	-
Stacked ROI Ultra Short Exposure Time Mode GigE Vision 2.0 Precision Time Protocol (IEEE 1588) Action Commands (Synchronous Triggering)		•	•	•	•	•	•	•	•
Ultra Short Exposure Time Mode GigE Vision 2.0 Precision Time Protocol (IEEE 1588) Action Commands (Synchronous Triggering)		•	•	•	•	•	•	•	•
Precision 7 Time Protocol (IEEE 1588) Action Commands (Synchronous Triggering)							•	_	
Precision Time Protocol (IEEE 1588) Action Commands (Synchronous Triggering)								• 4	
(IEEE 1588) Action Commands (Synchronous Triggering)									
Action Commands (Synchronous Triggering)							•	•	•
	Action Commands							•	_
							•	_	•

¹ not available for acA1280-60gm/gc

² not available for acA640-121gm

 $^{^{\}rm 3}$ only available for acA720-290gm/gc, acA1440-73gm/gc, acA1920-50gm/gc

 $^{^{\}rm 4}$ only available for acA720-290gm/gc, acA1440-73gm/gc, acA640-121gm



Sentors see GigE Camera Models #### #### ##########################		Sony CCD	CMOSIS	e2V	ON Semi-	ON Semi-	ON Semi-	Sony	Sony
ANTERIOR CONTROL CONTR	Sensors	acA640-90gx acA640-120gx acA780-75gx acA1300-22gx	acA2000-50gx	acA1280-60gx acA1300-60gx	conductor MT9P	conductor MT9J/F	conductor PYTHON acA640-300gx	Pregius acA640-121gm acA720-290gx	STARVIS acA3088-16 acA4024-8
Memory Color mone color color color color mone color					acA2500-14gx	acA4600-7gc	acA1300-75gx acA1920-48gx	acA1920-40gx acA1920-50gx acA2040-35gx acA2440-20gx acA4096-11gx	Sony Exmor F
All coefficients (Limits) Jean Defined Values Jean Selection (Controllor Parameters) Jean Selection (C		T							
Remove Parameter Limits Jose Delined Values Jose Cell Period Values Jose Set (Configuration Sets) Desired Temperature Jose Set (Configuration Sets) Desired Sets (Configuration	Miscellaneous	mono color	mono color	mono color	mono color	mono color	mono color	mono color	mono co
Jean Defined Volues									
Device Information Parameters Jaser Sets (Configuration Sets) Jeser Sets (Configuration Sets) Jeser Sets (Configuration Sets) Jedeck Temperature Jeser Sets (American and Enhancement ISRGB Samma Correction Jestico White Autor Jestico		•	•	•	•	•	•	•	•
Jan Set (Configuration Sets)		•	•	•	•	•	•	•	•
		•	•	•	•	•	•	•	•
Algorithmy Correction Solor Creation and Enhancement Selegia Gamma Correction Jalance Winter Jalance Winte		•	•	•	•	•	•	•	•
Section Sect							•	•	•
REB Gamma Correction Salance White Manual White Balance) Salance White Auto Manual White Balance) Salance White Balance Salance								•¹	• 2
### Part	Color Creation and Enhance	ement							
Manual White Balance) Balance White Auto Automatic White Balance) Juph Source Presets Color Transformation RGB to RGB) Color Adjustment 6 axis Hue/Saturation) GB I	RGB Gamma Correction	•	•	•	•	•	•	•	
Salance White Auto		•	•	•	•	•	•	•	
Cautomate White Balance) Cautomate White Balance, Cautomate White Bal				_					
Color Transformation RGB to RGB RGB to RGB RGB to RGB RGB to RGB R		•	•	•	•	•	•	•	
Color Adjustment Color Adjus	_ight Source Presets	•	•	•	•	•	•	•	
ROB to RGB Color Adjustment Gaxis Hus/Saturation Color Adjustment Gaxis Hus/Saturation Color Adjustment Gaxis Hus/Saturation Color Adjustment Colo	Color Transformation								
(6 axis Hus/Saturation)	(RGB to RGB)	•	•	•	•	•	•	•	'
Chunks C		•	•	•	•	•	•	•	-
Chunks C							•	• ³	•4
Cline Status All Cline Statu		_		_	_				
CRC Checksum	Siluliks								
Trigger Input Counter Frame Counter Sequence Set Index Exposure Time Gain Raw Event Reporting Exposure End E	Timestamp	•	•	•	•	•	•	•	•
Trigger Input Counter Frame Counter Frame Counter Frame Counter Frame Counter Frame Sequence Set Index Frame Sart Frame Sart Frame Start Frame Start Frame Start Frame Start	Line Status All	•	•	•	•	•	•	•	•
Frame Counter Sequence Set Index Exposure Time Sain Raw Event Reporting Exposure End Frame Start Frame Start Acquisition Start Acquisition Start Acquisition Start Wait Acquisition Start Overtrigger Over Temperature Over Temperature Over Temperature Over Temperature Indicate the sequence of the sequ	CRC Checksum	•	•	•	•	•	•	•	•
Sequence Set Index Exposure Time Gain Raw Exposure End Exposure End Exposure Start Exposure Sta	Trigger Input Counter	•	•	•	•	•	•	•	•
Exposure Time Gain Raw Event Reporting Exposure End Frame Start Frame Start Overtrigger Acquisition Start Wait Acquisition Start Vovertrigger Over Temperature Over Temperatur	Frame Counter	•	•	•	•	•	•	•	•
Exposure End Exposure End Exposure End Exposure End Exposure End Exposure Start Exposure Start Overtrigger Acquisition Start Wait Acquisition Start Wait Acquisition Start Vertrigger Exposure Emperature Exposure	Sequence Set Index	•	•	•	•	•	•	•	•
Exposure End Frame Start Frame Start Vertrigger Acquisition Start Vait Acquisition Start Overtrigger Critical Temperature Dixel Formats Whono 8 Whono 10 Whono 10 Mono 10Packed) Mono 12 Mono 12 Mono 12Packed (Mono 12Packed) Bayer 10 Bayer 12	Exposure Time	•	•	•	•	•	•	•	•
Exposure End Frame Start Frame Start Frame Start Voertrigger Acquisition Start Acquisition Start Wait Acquisition Start Overtrigger Fritical Temperature Pixel Formats Wono 8 Wono 10 Wono 10 (Mono 10 Packed) Mono 12 Acquisition Start Vait Acquisition S	Gain Raw						•	•	•
Frame Start Frame Start Overtrigger Acquisition Start Acquisition Start Wait Acquisition Start Overtrigger Critical Temperature Dixel Formats Mono 8 Mono 10 Mono 10 Packed) Mono 12 Packed (Mono 12 Packed) Mono 12 Packed (Mono 12 Packed) Moro 18 Packed (Mono 18 Packed) Moro 19 Packed (Mono 18 Packed) Moro 19 Packed (Mono 19 Packed) Moro 19 Packed (Mono 18 Packed) Moro 19 Packed (Mono 19 Packed) Moro 19 Packed (Event Reporting								
Frame Start Frame Start Overtrigger Acquisition Start Acquisition Start Wait Acquisition Start Overtrigger Critical Temperature Dixel Formats Mono 8 Mono 10 Mono 10 Mono 10Packed) Mono 12 Packed (Mono 12 Packed) Mono 12 Packed (Mono 12 Packed) Moro 12 Packed (Mono 12 Packed) Moro 18 Packed (Mono 18 Packed) Moro 19 Packed (Mono 19 Packed) Moro 19 Packed (Mono 19 Packed) Moro 19 Packed (Mono 19 Packed) Packed (Mono 19 Packed (M	Evnocuro End								
Acquisition Start Acquisition Start Wait Acquisition Start Overtrigger Acquisition Start Overtri									
Acquisition Start Acquisition Start Wait Acquisition Start Overtrigger Critical Temperature Over Temperature Over Temperature Vixel Formats Mono 8 Mono 10 Mono 10p (Mono 10 Packed) Mono 12 Packed (Mono 12 Packed) Packed) YCbCr422_8 (YUV422_8) Bayer 8 Bayer 10 Bayer 10p (Bayer 10 Packed) Bayer 12									
Acquisition Start Wait Acquisition Start Overtrigger Critical Temperature Over Temperature Pixel Formats Mono 8 Mono 10 Mono 10p (Mono 10 Packed) Mono 12									
Acquisition Start Overtrigger Critical Temperature Dixel Formats Mono 8 Mono 10 Mono 10p (Mono 10 Packed) Mono 12 Mono 12 Packed (Mono 12 Packed) YCbCr422_8 (YUV422_8) Bayer 8 Bayer 10 Bayer 10p (Bayer 10 Packed) Bayer 12		•		•	•		•		
Critical Temperature Dever Temperature Dixel Formats Mono 8 Mono 10 Mono 10p (Mono 10 Packed) Mono 12	•								
Pixel Formats Mono 8 Mono 10 Mono 10p (Mono 10 Packed) Mono 12 Packed (Mono 12 Packed (Mono 12 Packed (Mono 12 Packed (Mono 13 Packed (Mono 14 Packed (Mono 15 Packed		•	•	•	•	•			•
Mono 8 Mono 10 Mono 10p (Mono 10 Packed) Mono 12p Packed (Mono 12Packed) Mono 12Packed (Mono 12P							_		
Mono 10 Mono 10	·						•	•	
Mono 10 Mono 10 Packed) Mono 12	Pixel Formats								
Mono 10p (Mono 10 Packed) Mono 12 Mono 12 Packed (Mono 12 Packed) YCbCr422_8 (YUV422_8) Bayer 8 Bayer 10 Bayer 10 Packed) Bayer 10 Packed)	Mono 8	•	•	•	•	•	•	•	•
Mono 12 Mono 12 Packed (Mono 12 Packed) YCbCr422_8 (YUV422_8) Bayer 8 Bayer 10 Bayer 10 Packed) Bayer 12	Mono 10						•		
Mono 12 Packed (Mono 12 Packed) YCbCr422_8 (YUV422_8) Bayer 8 Bayer 10 Bayer 10 Packed) Bayer 12	Mono 10p (Mono 10 Packed)						•		
Packed) YCbCr422_8 (YUV422_8) Bayer 8 Bayer 10 Bayer 10 Packed) Bayer 12	Mono 12	•	•	•	•	•		•	•
ACDCT422_8 (YUV422_8) Bayer 8 Bayer 10 Bayer 10 Packed) Bayer 12		•	•	•	•	•		•	•
Bayer 8 Bayer 10 Bayer 10 Packed) Bayer 12		•	•	•			•		
Bayer 10 Bayer 10 Packed) Bayer 12 • • • • • • • • • • • • • • • • • •									
Bayer 10p (Bayer 10 Packed) Bayer 12	-								
Bayer 12 • • • • • • • •	-								
	Bayer 12 (Bayer 12 Packed)								

¹ not available for acA640-121gm, acA720-290gx, acA1440-73gx, acA2040-35gx, acA2440-20gx ² only available for acA3088-16gx, acA4024-8gx ³ not available for acA640-121gm ⁴ only available for acA5472-5gm

Features ace Camera Link _____





Sensors ace Camera Link Camera Models	CMOSIS acA2000-340kx acA2040-180kx
	mono color
Physical Interface and I/O Control	
Configurable Input/Output Lines	•
General Purpose I/O	1
Debouncer	•
I/O Signals: Exposure Active Signal	•
Minimum Output Pulse Width	•
Image Acquisition Control	
Trigger Delay	•
Acquisition Status	•
Trigger Wait / Trigger Ready Signal	•
Selectable Camera Link Baud Rate	•
Color Creation and Enhancement	
Balance White (Manual White Balance)	•
sRGB Gamma Correction	•
Color Transformation	•
Standard Features	
Gain	•
Black Level	•
Area of Interest	•
Gain Auto	•
Exposure Mode: Timed (Control via API)	•
Exposure Mode: Trigger Width (Control via external trigger)	•
Auto Function Profile	•
Decimation Vertical	•
Binning	•
Reverse X (Horizontal Mirroring)	•
Reverse Y (Vertical Mirroring)	•
Lookup Table (LUT)	•
Remove Parameter Limits	•
Test Images	•
Sequencer	•
Device Information Parameters Chunks	•
Sequence Set Index	
Exposure Time	
Pixel Formats	
Mono 8	•
Mono 10	•
Mono 12	•
Bayer GB 8 Bayer GB 10	•
Bayer GB 12 Adjustable Camera Link Pixel Clock Speed	•
Miscellaneous	
Jser Defined Values	•
Remove Parameter Limits	•
Jser Sets (Configuration Sets)	•

Features dart



Basler Cameras	dart USB	dart BCON for LVDS
Interface	<i>US</i> 3°	BCON for LVDS
	mono color	mono color
Interface Features		
USB 3.0 Superspeed	•	
USB 2.0 Backward Compatible	•	
Physical Interface and I/O Control		
Debouncer	•	•
Minimum Output Pulse Width I/O Signals	•	•
Exposure Active Signal	•	•
Flash Window Signal	•1	•2
User Output	•	•
Line Source Signals: User Output	•	•
Image Acquisition Control		
Frame Start Trigger	•	•
Triggered by Hardware	•	•
Triggered by Software	•	•
Acquisition Status Standard Features	•	•
Standard reatures		
Gain	•	•
Gain Auto Black Level	•	•
Region of Interest (ROI)	•	•
Binning Horizontal	•	•
Binning Vertical	•	•
Reverse Y (Vertical Mirroring) Reverse Y (Vertical Mirroring)	•	
Gamma Correction	•	•
Exposure Mode: Timed (Control via API)	•	•
Exposure Mode: Trigger Width (Control via external trigger)	•1	● ²
Exposure Auto Auto Function Profile	•	•
Test Images	•	•
Miscellaneous		
User Defined Values		
Device Information Parameters	•	•
User Sets (Configuration Sets)	•	•
Color Creation and Enhancement		
Balance White Auto (Automatic White Balance)	•	•
Hue/Saturation	•	•
PGI	•	•
Light Source Presets	•	•
Backlight Compensation Anti-Flicker	•	•
Anti-Flicker Contrast Enhancement	•	•
Balance White (Manual White Balance)	•	•
S-Curve Contrast Mode	•	•
sRGB Gamma Correction	•	
Pixel Formats		
Mono8	•	•
Mono12	•	•
YCbCr422_8 Bayer8		
Bayer12	•	•
RGB8	•	•

¹ not available for daA1280-54uc, daA1280-54um, daA1600-60uc, daA1600-60um

² only for daA2500-14lm/lc

Features dart _____



Basler Cameras	dart I for I	BCON MIPI
Interface	BC	ON for MIPI
	mono	color
Image Acquisition Control		
Triggered by Software		•
Acquisition Single Frame		
Acquisition Start		
Acquisition Stop		
Standard Features		
Gain		
Gain Auto		
Black Level		
Gamma Correction		
Exposure Mode: Timed (Control via API)		
Exposure Auto		
Test Images		
Exposure Time		
Miscellaneous		
Device Information Parameters		
Color Creation and Enhancement		
Hue/Saturation		•
Light Source Presets		
Anti-Flicker		
Contrast Enhancement Balance White (Manual White Balance)		
Balance White Auto (Automatic White Balance)		
Sharpness		
Brightness		
Pixel Formats		
Mono8	•	
YCbCr422_8		•

Features pulse _____

RGB8



Basler Cameras	pulse
Interface	<i>US</i> 3°
	mono color
Interface Features	
USB 3.0 Superspeed	•
USB 2.0 Backward Compatible Image Acquisition Control	•
Frame Start Trigger Triggered by Software	•
Acquisition Status	•
Standard Features	
Gain Gain Auto	•
Black Level	•
Region of Interest	•
Binning Horizontal	•
Binning Vertical	•
Reverse X (Horizontal Mirroring)	•
Reverse Y (Vertical Mirroring)	•
Gamma Correction (User)	•
Exposure Control via API	•
Automatic Exposure Control	
Auto Function Profile Test Images	•
Miscellaneous	
User Defined Values Device Information Parameters	
Configuration Sets	
Color Creation and Enhancement	Ī
Balance White Auto (Automatic White Balance)	
Color Adjustment (6 axis Hue/Saturation) PGI	•
Light Source Presets	
Backlight Compensation	•
Anti-Flicker	•
Contrast Enhancement	•
Balance White (Manual White Balance)	•
S-Curve Contrast Mode	•
sRGB Gamma Correction	•
Pixel Formats	
Mono8	•
Mono12	•
YCbCr422_8	•
Bayer8	•
Bayer12	•

Features aviator, Basler beat, pilot and scout Cameras ____



Basler Cameras	aviator	aviator	Basler beat	pilot	scout
Interface	GiG≡	Link	Liik	GiG ≡	GiG <u>=</u>
Standard Features	V I STI O N	Glinner	Bosse	V I S T O N	V I S I O N
Configurable Input/Output Lines	•	•	•	•	•
Adjustable Camera Link Pixel Clock Speed		•	•		
Selectable Camera Link Baud Rate		•	•		
Adjustable Gain All	•	•	•	•	•
Individual Tap Gain Adjustment	•	•		•	
Adjustable Black Level All	•	•	•	•	•
Individual Tap Black Level Adjustment	•	•		•	
Manual White Balance*	•	•	•	•	•
Digital Shift*	•	•		•	•
Area of Interest	•	•	•	•	•
Prelines	•	•			
Automatic White Balance*	•	•	•	•	•
Automatic Gain Control*	•	•	•	•	•
Automatic Exposure Control*	•	•	•	•	•
Auto Function Profile*	•	•	•	•	•
Binning up to 4×4* (Mono)	•	•		•	•
Stacked Zone Imaging*			•		
Reverse X (Horizontal Mirroring)	•	•	•	•	•
Reverse Y (Vertical Mirroring)	•	•	•		
Lookup Table	•	•	•	•	•
Gamma Correction (User)	•	•	•	•	•
sRGB Gamma Correction*	•	•	•	•	•
Enhanced Color*	•	•	•	•	•
User Defined Values	•	•	•		
Remove Parameter Limits	•	•		•	•
Debouncer					
Minimum Output Pulse Width*					
Trigger Delay					
Acquisition Status					
Event Reporting				•	
Test Images					
Device Information Parameters				•	
Configuration Sets			•		
Temperature Readout	•	•		•	•
Flash Window Signal*		_	_		
Trigger Wait / Trigger Ready Signal*	•	•	•	•	•
Exposure Active Signal	•	•	•	•	•
Sequencer Chunk Features	•	•		•	•
Time Stamp	•			•	•
Trigger Input Counter	•			•	•
I/O Line Status	•			•	•
CRC Checksum	•			•	•
Frame Counter	•			•	•
Sequence Set Index*	•			•	•
Exposure Time	•			•	•

^{*} This feature may not be available on all camera versions

Features aviator, Basler beat, pilot and scout Cameras ____



Basler Cameras	aviator	aviator	Basler beat	pilot	scout
Interface	GIG=	Link	CAMERA LO CAMERA	<i>GiG</i> ≡	GiG≡.
Software					
Software Triggering	•	•	•	•	•
Pixel Data Formats					
Mono 8	•	•	•	•	•
Mono 10*		•	•		
Mono 12	•	•	•		
Mono 16*				•	•
Mono 12 Packed*	•			•	•
YUV 4:2:2 Packed (Ylber 422)	•			•	•
YUV 4:2:2 (YUYV) Packed	•			•	•
Raw 8					
RGB 8 Packed*					•
RGB 8*	•			•	
Bayer GB 8*	•		•	•	
Bayer RG 8*					•
Bayer BG 8*				•	•
Bayer GR 8*		•			
Bayer GB 10*			•		
Bayer GR 10*		•			
Bayer GB 12*	•				
Bayer GR 12*		•			
Raw 16			•		
Bayer GB 16*				•	
Bayer BG 16*				•	•
Bayer GB 12 Packed*	•			•	
Bayer BG 12 Packed*				•	•
Hardware					
90° Head Housing				•	•
Inputs	2	2	4	2	2
Outputs	4	1	1	4	4
Camera Link Tab Geometries					
1X-1Y		•			
1X2-1Y		•	•		
1X3-1Y			•		
1X8-1Y			•		
1X10-1Y			•		
1X-2YE		•			

^{*} This feature may not be available on all camera versions

Features Line Scan Cameras _____



Basler Cameras	racer	racer
Interface	GIG=	Link
Standard Features		
Configurable Input/Output Lines	•	•
Selectable Camera Link Pixel Clock Speed		•
Selectable Camera Link Baud Rate		•
Adjustable Gain	•	•
Analog Gain	•	•
Digital Gain	•	•
Adjustable Black Level All (Offset)	•	•
AOI (Area of Interest)	•	•
Offset Shading (DSNU Shading Correction)	•	•
Gain Shading (PRNU Shading Correction)	•	•
Automatic Gain Control*	•	•
Automatic Exposure Control*	•	•
Automatic Function Profile*	•	•
Binning	•	•
Lookup Table	•	•
Gamma Correction	•	•
User Defined Values	•	•
Remove Parameter Limits	•	•
Rotary Encoder Module	•	
Frequency Converter	•	•
Debouncer*	•	•
Trigger Delay	•	
Acquisition Status	•	
Event Reporting	•	
Test Images	•	•
Device Information	•	•
Configuration Sets	•	•
Temperature Readout	•	•
Trigger Wait/Trigger Ready Signal*	•	•
Exposure Active Signal	•	•
Stamp Features*	•	
Error Condition Detection	•	•
Exposure Time Control	•	•
Dark Noise Cancellation	•	•
Chunk Features		
Frame Counter	•	
Timestamp	•	
Input Status @ Line Trigger	•	
CRC Checksum	•	
Trigger Counters	•	
Encoder Counter	•	

^{*} This feature may not be available on all camera versions

Features Line Scan Cameras



Basler Cameras Interface Software Software Triggering Pixel Data Formats Mono 8 Mono 12 Mono12 Packed	ile
Software Software Triggering Pixel Data Formats Mono 8 Mono 12	97
Software Triggering Pixel Data Formats Mono 8 Mono 12	
Pixel Data Formats Mono 8 Mono 12	
Mono 8 Mono 12	
Mono 12	
Mono12 Packed	
1 TOTIO IZ I GENEG	
YUV 4:2:2 Packed	
YUV 4:2:2 (YUYV) Packed	
8 Bit Output	
10 Bit Output)
12 Bit Output)
Hardware	
Inputs 3 4	2
Outputs 2 1 ³	3
Camera Link Tap Geometries	
1X)
1X2	
1X3 ¹)
1X4 ¹	
1X6 ¹)
1X8	•
1X10	
1X16 ¹	•
4X2 ¹)

Note: The terminology used here to describe the features on GigE cameras complies with the GigE Vision standard.

Accordingly, the terminology used to describe DCAM compliant cameras may differ. Specifications are subject to change without prior notice.

 $^{^{\}rm 1}$ This feature may not be available on all camera versions $^{\rm 2}$ CC1 to CCF4

³ via Camera Link spare bit

Basler's Components Enhance Your Vision

Basler offers you extensively tested cables and lenses, which are optimized for use with our Basler cameras. Our cooperation with certified suppliers facilitates the operation of a high-performance image processing system.

An image processing system needs more than just a camera, lens and light source. A stable vision system also requires accessories for handling data transfer.

Basler offers a wide variety of accessories such as lenses, I/O cables, power supplies, data cables, host adapter cards, hubs or switches designed to help you get the most out of your camera. To ensure full compatibility, all accessories are tested with our cameras. Cables and power supplies are all EMC tested for industrial conditions by our support team.

USB 3.0 Accessories from Basler

Especially with a USB 3.0 interface, it is important to think about the right accessories to achieve stability in a system with one or more cameras. In particular USB 3.0 accessories from the consumer sector may lead to major disadvantages for the user, as they are not designed to handle the higher demands of machine vision applications.

Our portfolio of USB 3.0 accessories covers a broad selection of cables, host adapter cards and a USB 3.0 hub.

Basler Original Equipment



The accessories market for machine vision cameras is broad and deep. Therefore, Basler offers products specially developed for our cameras, meaning camera and lens or cables harmonize perfectly with one another. The products are produced exclusively

for us and are available only from Basler. All products with the Basler Original Equipment seal allow top performance when combined with Basler cameras.

Your Benefits Through USB 3.0 Accessories:

- High stability of your USB 3.0 set up
- Simple integration into all image processing applications
- Tested USB 3.0 accessories with reliable premium quality for industrial applications
- Carefully selected accessories for a perfect match
- Plug and play functionality

Have a look at the matching components for your camera model at

baslerweb.com/accessories

Why Components from Basler?

- Perfect match with our Basler cameras
- Extensive and qualified portfolio
- One-stop-shopping for your image processing system
- Performance stability through premium quality standards
- Qualified selection of components avoids changes in existing systems
- Professional consultancy during preselection



How Does Basler Measure and Define Image Quality?



Basler is leading the effort to standardize image quality and sensitivity measurement for cameras and sensors. We are giving the EMVA 1288 standard our strongest support because it describes a unified method to measure, compute, and present the specification parameters for cameras and image sensors. Our cameras are characterized and measured in 100% compliance with the EMVA 1288 standard. Measurement reports can be downloaded from our website.

How Does Basler Ensure Superior Quality and Reliable High Performance?

Our approach to quality assurance is rigorous:

we continually audit all facets of our business to ensure powerful performance, increase efficiency and reduce costs for our customers. We are compliant with all major quality standards including ISO 9001, CE, RoHS, and more. To ensure consistently high product quality, we employ several quality inspection procedures during manufacturing.

Every Basler camera is subjected to exhaustive optical and mechanical tests before leaving the factory. We have developed a unique combination of optics, hardware, and software tools that can quickly and efficiently calibrate a camera and measure its performance against a set of standard performance criteria. Regardless of what technology or camera model you choose you can be assured of consistent performance.

3-Year Warranty

Basler offers a 3-year warranty for their cameras and the Basler Lenses 1/2.5". We make this unprecedented promise because we have unparalleled confidence in our products. We continually reinvest in research, development and superior manufacturing capabilities so that our customers can fully rely on the products we manufacture.

About Basler

Basler is a leading manufacturer of high-quality cameras and camera accessories for industry, medicine, traffic and a variety of other markets. The company's product portfolio encompasses area scan and line scan cameras in compact housing dimensions, camera modules in board level variants for embedded solutions, and 3D cameras. The catalog is rounded off by our user-friendly pylon SDK and a broad spectrum of accessories, including several developed specially for Basler and optimally harmonized for our cameras.

Basler has three decades of experience in computer vision. The company is home to approximately 600 employees, at its headquarters in Ahrensburg, Germany, and at its subsidiaries and sales offices in Europe, Asia, and North America



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