Camera Model	SenS 640V-ST	SenS 640M-ST	SenS 640G-STE	SenS 640M-STE	SenS 640V-STP	SenS 640M-STP
Availability	IN STOCK!	IN STOCK!	IN STOCK!	IN STOCK!	IN STOCK!	IN STOCK!
Camera Description	VGA 640×512, Pitch : 15µm Dual mode InGaAs sensor (Lin&Log) Near Infrared Imaging up to 1700nm Dynamic Range 120dB typical in Log, 63dB typical in CTIA (Low Gain), 49dB typical in CTIA (High Gain) TEC on/off Up to 230fps full frame USB3.0	VGA 640×512, Pitch : 15µm Dual mode InGaAs sensor (Lin&Log) Near Infrared Imaging up to 1700nm Dynamic Range 120dB typical in Log, 63dB typical in CTIA (Low Gain), 49dB typical in CTIA (High Gain) TEC on/off Up to 230fps full frame Camera Link	VGA 640×512, Pitch : 15µm Dual mode InGaAs sensor (Lin&Log) Near Infrared Imaging up to 1700nm Dynamic Range 120dB typical in Log, 63dB typical in CTIA (Low Gain), 49dB typical in CTIA (High Gain) TEC on/off Up to 230fps full frame GigE data port- sensor calibration files stored in camera head memory	VGA 640×512, Pitch : 15µm Dual mode InGaAs sensor (Lin&Log) Near Infrared Imaging up to 1700nm Dynamic Range 120dB typical in Log, 63dB typical in CTIA (Low Gain), 49dB typical in CTIA (High Gain) TEC on/off Up to 230fps full frame Camera Link- Sensor calibration data stored in camera memory	Gated mode camera VGA 640×512, Pitch : 15µm Dual mode InGaAs sensor (Lin&Log) Near Infrared Imaging up to 1700nm Selectable Trigger Delay Dynamic Range in Gated mode: 58dB typical Low Gain, 44dB typical High Gain Dynamic Range in standard mode: see more details WiDy SenS 640V-ST TEC on/off Up to 230fps full frame USB3.0	Gated mode camera VGA 640×512, Pitch : 15µm Dual mode InGaAs sensor (Lin&Log) Near Infrared Imaging up to 1700nm Selectable Trigger Delay Dynamic Range in Gated mode: 58dB typical Low Gain, 44dB typical High Gain Dynamic Range in standard mode: see more details WiDy SenS 640M-ST TEC on/off Up to 230fps full frame CameraLink
Sensor Description	NSC1601 InGaAs with patented CTIA (linear) and solar cell mode (log), 14 bit digital interface. Four gain settings for linear sensor response mode.	NSC1601 InGaAs with patented CTIA (linear) and solar cell mode (log), 14 bit digital interface. Four gain settings for linear sensor response mode.	NSC1601 InGaAs with patented CTIA (linear) and solar cell mode (log), 14 bit digital interface. Four gain settings for linear sensor response mode.	NSC1601 InGaAs with patented CTIA (linear) and solar cell mode (log), 14 bit digital interface. Four gain settings for linear sensor response mode.	NSC1601 InGaAs with patented CTIA (linear) and solar cell mode (log), 14 bit digital interface. Four gain settings for linear sensor response mode.	NSC1601 InGaAs with patented CTIA (linear) and solar cell mode (log), 14 bit digital interface. Four gain settings for linear sensor response mode.
Data Ports Available	USB3	Cameralink	GigE	Cameralink	USB3	Cameralink
Pixel Format	640X512	640X512	640X512	640X512	640X512	640X512
Pixel Size, um	15	15	15	15	15	15
Full Well Capacity in Low Light LInear (CTIA) Mode	>17ke- (High Gain) >380ke- (Low Gain)	>17ke- (High Gain) >380ke- (Low Gain)	>17ke- (High Gain) >380ke- (Low Gain)	>17ke- (High Gain) >380ke- (Low Gain)	>17ke- (High Gain) >380ke- (Low Gain)	>17ke- (High Gain) >380ke- (Low Gain)
Sensor Noise	50e- (with CDS) in High Gain 270e- in Low Gain 340e-in Log	50e- (with CDS) in High Gain 270e- in Low Gain 340e-in Log	50e- (with CDS) in High Gain 270e- in Low Gain 340e-in Log	50e- (with CDS) in High Gain 270e- in Low Gain 340e-in Log	50e- (with CDS) in High Gain 270e- in Low Gain 340e-in Log	50e- (with CDS) in High Gain 270e- in Low Gain 340e-in Log
Max. Frame Rate	250 fps, full frame	250 fps, full frame	250 fps, full frame	250 fps, full frame	250 fps, full frame	250 fps, full frame
Dynamic Range	120dB typical in Log 63dB typical in CTIA (Low Gain) 49dB typical in CTIA (High Gain)	120dB typical in Log 63dB typical in CTIA (Low Gain) 49dB typical in CTIA (High Gain)	120dB typical in Log 63dB typical in CTIA (Low Gain) 49dB typical in CTIA (High Gain)	120dB typical in Log 63dB typical in CTIA (Low Gain) 49dB typical in CTIA (High Gain)	120dB typical in Log 63dB typical in CTIA (Low Gain) 49dB typical in CTIA (High Gain)	120dB typical in Log 63dB typical in CTIA (Low Gain) 49dB typical in CTIA (High Gain)
Shutter	Snapshot Global Shutter	Snapshot Global Shutter	Snapshot Global Shutter	Snapshot Global Shutter	Snapshot Global Shutter	Snapshot Global Shutter

Exposure Range	**10us to 220ms in ITR 100us to 220ms in IWR Maximum in Log mode: 10ms**	**10us to 220ms in ITR 100us to 220ms in IWR Maximum in Log mode: 10ms**	**10us to 220ms in ITR 100us to 220ms in IWR Maximum in Log mode: 10ms**	**10us to 220ms in ITR 100us to 220ms in IWR Maximum in Log mode: 10ms**	**10us to 220ms in ITR 100us to 220ms in IWR Maximum in Log mode: 10ms**	**10us to 220ms in ITR 100us to 220ms in IWR Maximum in Log mode: 10ms**
50 nsec Gating supported?	**NO**	**NO**	**NO**	**NO**	**YES**	**YES**
Sensor Calibration Stored in Camera Memory?	**NO**	**NO**	**YES**	**YES**	**NO**	**NO**
Size (mmXmmXmm)	**46X46X57**	**46X46X57**	**46X46X57**	**46X46X57**	**46X46X57**	**46X46X57**
Weight (grams)	**<250**	**<250**	**<250**	**<250**	**<250**	**<250**
TE Cooled	**TEC cooled standard**	**TEC cooled standard**	**TEC cooled standard**	**TEC cooled standard**	**TEC cooled standard**	**TEC cooled standard**
Operating Temp. Range	**-40C to +70C**	**-40C to +70C**	**-40C to +70C**	**-40C to +70C**	**-40C to +70C**	**-40C to +70C**
Lens Mount	**C-Mount**	**C-Mount**	**C-Mount**	**C-Mount**	**C-Mount**	**C-Mount**
Software	**WiDyVision + SDK (Windows, 7, 10 compatible, Linux); Drivers for Labview and Matlab available upon request**	**WiDyVision + SDK (Windows, 7, 10 compatible, Linux); Drivers for Labview and Matlab available upon request**	**WiDyVision + SDK (Windows, 7, 10 compatible, Linux); Drivers for Labview and Matlab available upon request**	**WiDyVision + SDK (Windows, 7, 10 compatible, Linux); Drivers for Labview and Matlab available upon request**	**WiDyVision + SDK (Windows, 7, 10 compatible, Linux); Drivers for Labview and Matlab available upon request**	**WiDyVision + SDK (Windows, 7, 10 compatible, Linux); Drivers for Labview and Matlab available upon request**