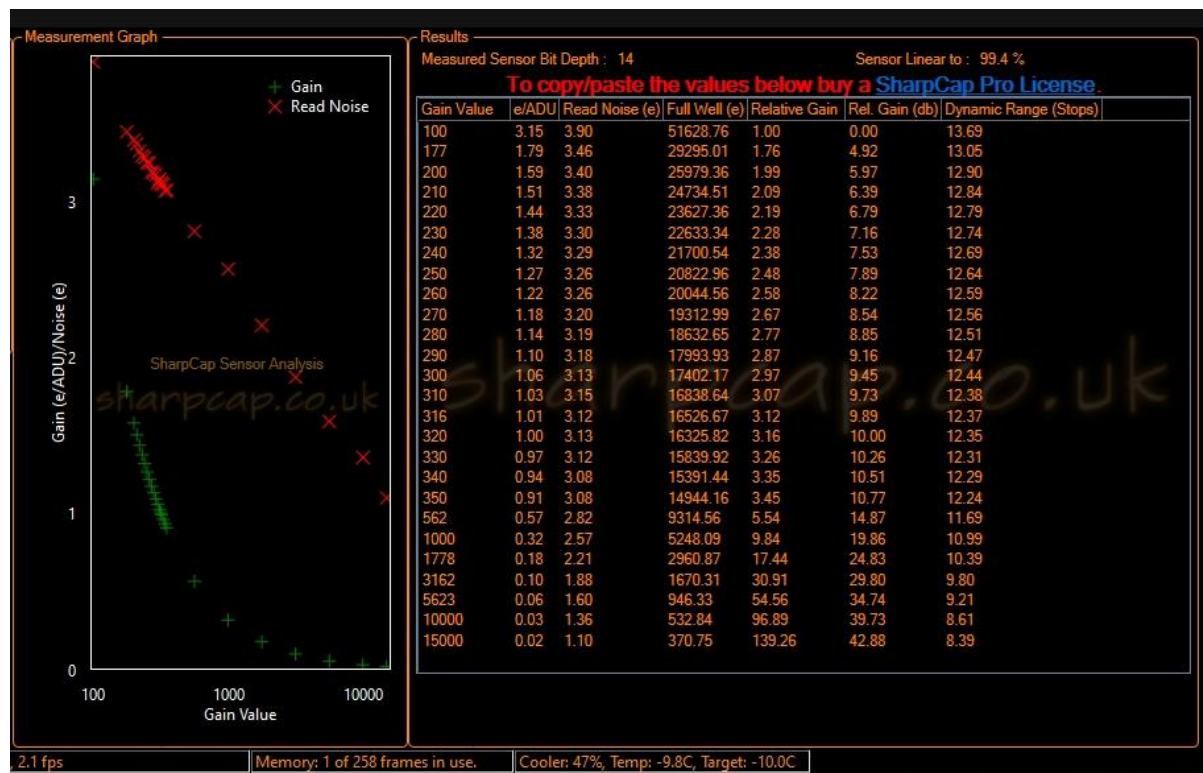


LCG Modus Offset 23:



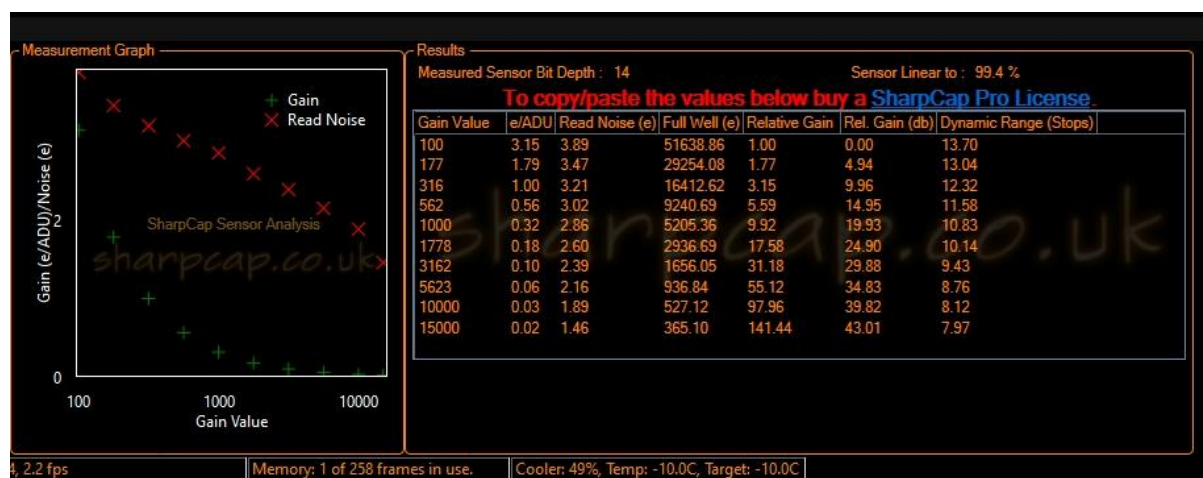
LCG Modus Offset 53:



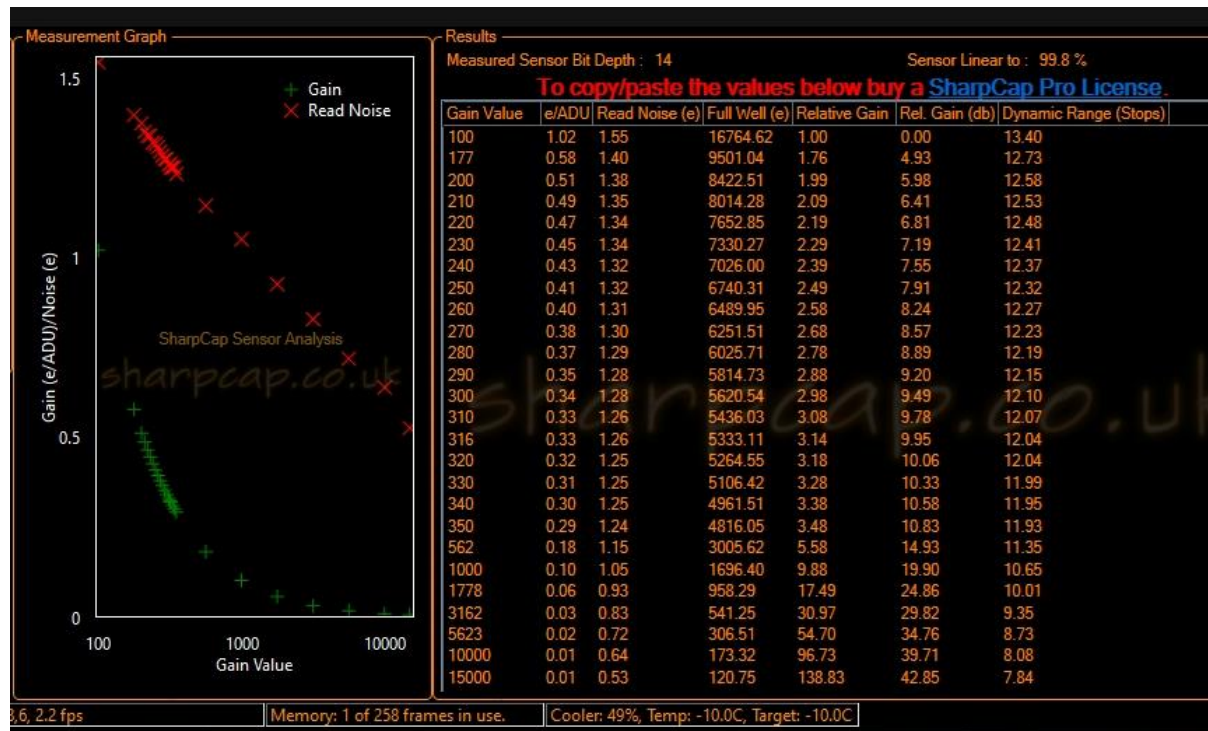
LCG Modus Offset 73:



LCG Modus Offset 103:



HCG Modus Offset 23:



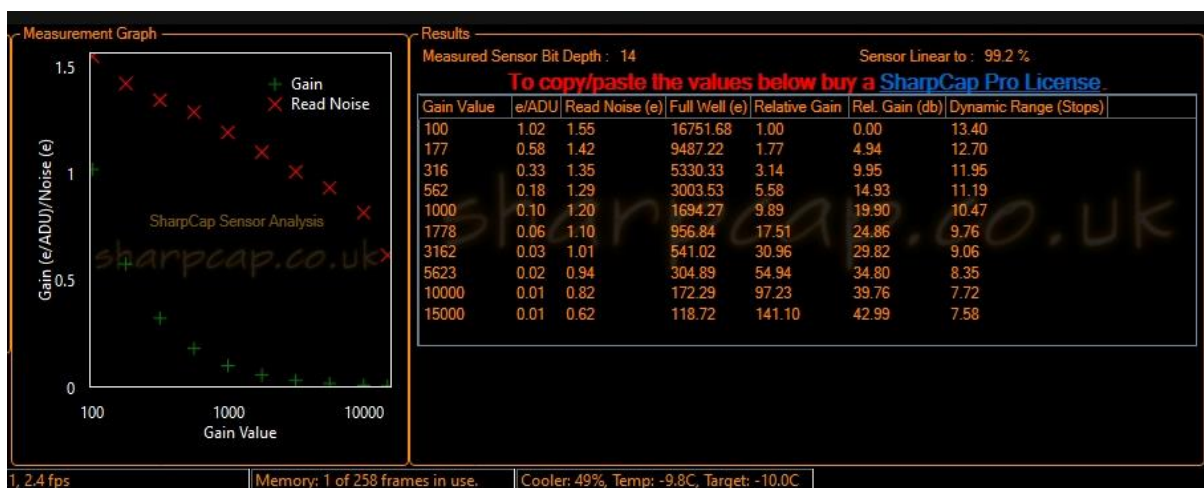
HCG Modus Offset 53:



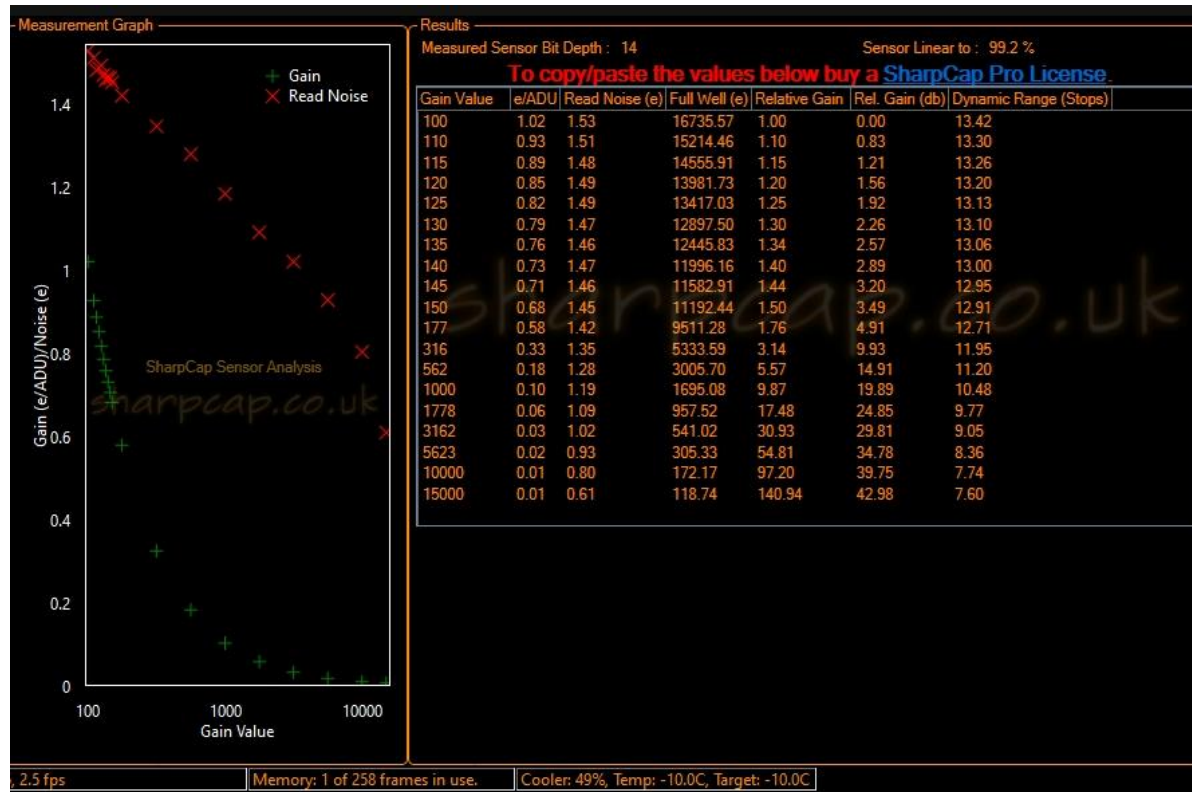
HCG Modus Offset 73:



HCGModus Offset99:



HCG Modus Offset 99 / feine Auflösung:



LCG Modus Offset 0:



HCG Modus Offset 0:



Testläufe	Offset 23			Offset 53			Offset 73		
-10°C	GAIN	Read Noise	Dyn range	GAIN	Read Noise	Dyn range	GAIN	Read Noise	Dyn range
Modus									
LCG grob	100,00	3,90	13,69	100,00	3,88	13,70	100,00	3,92	13,69
LCG fein	-	-	-	-	-	-	-	-	-
Unity Gain LCG	320 (e-/ADU-1,00)	3,13	12,35	ca. 316(e-/ADU-1,01)	3,23	12,32	320 (e-/ADU-1,00)	3,28	12,38
Bemerkung	mit zusätzlichen GAIN Werten im Script			mit zusätzlichen GAIN Werten im Script			mit zusätzlichen GAIN Werten im Script		
HCG grob	100	1,55	13,4	100	1,54	13,42	100	1,56	13,4
HCG fein	-	-	-	-	-	-	-	-	-
Unity Gain HCG	100 (e-/ADU1,02)	1,55	13,4	100 (e-/ADU 1,03)	1,54	13,42	100 (e-/ADU1,02)	1,56	13,4
SharpCap.SelectedCamera.SetGainsOfInterestForSensorAnalysis([200,210,220,230,240,250,260,270,280,290,300,310,320,330,340,350])									
SharpCap.SelectedCamera.SetGainsOfInterestForSensorAnalysis([110,115,120,125,130,135,140,145,150])									
Kamera OMEGON veTEC533c / Touptek ATR3CMOS09000KPA / 14Bit = max. 16384 verschiedene Werte möglich									
gekühlt auf -10°C									
ASCOM Touptek Treiber									
SharpCap 4.0.8667.0									
Achtung: SharCap Entwickler Robin:									

Offset 103			Offset 0		
GAIN	Read Noise	Dyn range	GAIN	Read Noise	Dyn range
100,00	3,89	13,70	100,00	1,22	14,00
-	-	-	-	-	-
316(e-/ADU 1,00)	3,21	12,32	316(e-/ADU 1,00)	1,18	13,76
	ohne Script			ohne Script	
Offset 99					
100	1,55	13,4	100	0,61	14
110	1,51	13,3	-	-	-
100 (e-/ADU1,02)	1,55	13,4	100 (e-/ADU 1,03)	0,61	14

Ein User beklagte im SC Forum, dass es bei seiner Kamera bei unterschiedlichen OFFSETS unterschiedliche Ergebnisse gibt. Ich poste hier mal die Antwort von Robin: the one with the higher offset is the better data. A very low offset can mean that black (or nearly black) pixels are clipped to the minimum pixel value of zero, meaning that the measurements of read noise will be incorrect. If the camera has an offset that SharpCap can control, it will automatically make adjustments to avoid this. Unfortunately for ASCOM drivers, the offset can only be adjusted by the user in the camera settings window.