

APPENDIX B Factory Global and Operational Configuration Settings

Camera Configuration Constants

Global Parameter	Base Value
Number of active columns	640
Number of active rows	512
Number of ports	1
Pixel Pitch	25 μm
Wavelength Response Cutoff	1.7 μm
Pixel clock frequency (Mpixels/s/port)	10.989
Thermoelectric Cooler Temperature Set Point	18°C

Factory Global Configuration Settings

Global Parameter	Base Value
Offset Correction	ON
Gain Correction	ON
Defect Pixel Correction	ON
Defect Pixel Map	OFF
Global Corrected Offset Value	100
Digital Gain	2X (multiplier value of 64)
Trigger Mode	0
Trigger Source	1
Trigger Polarity	0
Trigger Delay	0
Test Pattern	OFF
Frame Stamp	OFF
Scan State	ON
Over-Scan State	ON
AGC State	ON
AGC Top Threshold	1100
AGC Bottom Threshold	400
AGC Upper Operational Setting Number	11
AGC Lower Operational Setting Number	0
Enhancement State	ON
Enhancement Contrast Factor	8192
Enhancement Minimum Gain Divider	175
AGC/Enhancement Frame Average Weight	0
AGC/Enhancement Saturated Pixel Omit State	OFF
Video LUT Number	0
Video Double Buffer Mode State	ON
Synchronization of FPA Frame Readout to Analog Video	ON
Digital Output Mode	1

Global Parameter	Base Value
Digital Data Source	PAT
Communication Baud Rate	57600
Communication Echo Mode	1
Communication Echo Character	43
Response Mode	VERBOSE
Startup Operational Setting	11
LED State	ON
ADC State	ON
DAC State	ON

Factory Operational Configuration Settings

Operational Configuration Number	Exposure Period Count	Exposure Time (ms)	Frame Period Count	Frame Period (ms)	Video Buffer Read Row Start	Video Buffer Read Column Start	Video 2X Zoom Mode	Nominal FPA Gain (-e/count)
0	676	0.06	366395	33.3	6	0	OFF	4200
1	1352	0.13	366395	33.3	6	0	OFF	3000
2	2028	0.19	366395	33.3	6	0	OFF	1600
3	4056	0.37	366395	33.3	6	0	OFF	1200
4	6760	0.62	366395	33.3	6	0	OFF	680
5	11492	1.05	366395	33.3	6	0	OFF	420
6	20956	1.91	366395	33.3	6	0	OFF	270
7	37180	3.39	366395	33.3	6	0	OFF	180
8	65572	5.97	366395	33.3	6	0	OFF	110
9	116272	10.58	366395	33.3	6	0	OFF	72
10	206180	18.77	366395	33.3	6	0	OFF	47
11	365040	33.22	366395	33.3	6	0	OFF	32