TELEDYNE

Boson[®] GUI v3.0

Quick Start Guide

January 11, 2022

Teledyne FLIR Infrared Camera OEM

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BOSON GUI 3.0



The Boson GUI 3.0 provides developers key command capabilities that simplify and streamline development and testing with the Boson thermal camera module.





RADIOMETRIC OUTPUT

- Connect to COMs to access
 t-linear/t-stable options
- T-linear: The temperature linear output for most radiometric use cases
 - Conversion to temperature: Temperature (Kelvin) = 0.01 * pixel value

Port:

BOSON LINK:

COM43

- T-stable: A flux linear output and should not be used in most cases
- Post-colorize: The standard colorized output that supports isotherms and symbols

FLIR Boso	n Application v3.0				
0	USB VIDEO CONTROLS				
Image Appearance	USB Video Enabled				
ļţļ	Video Device Select				
System	FLIR Video 🔻				
. .	USB Video Source Output				
Diagnostic Tools	Post-Colorize 🔹 Colorize				
■ ∢ Media	Post-Colorize				
Settings	TStable (Pre-AGC)				
Lens	(GUI post-processed)				
Calibration	USB & CMOS Telemetry				
Symbols	USB Enable				
n	Position Packing				
() Radiometry	Header I 16 Bit				
I sotherms	Frame Rate (F/s) 60.0				
	ANALOG/CMOS VIDEO CONTROLS	~			
	AGC CONTROLS				
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CONFIGURATION REPORTS

- Configuration reports are useful for changing settings (or reading them) not accessible in the GUI.
 - Allows easy configuration uploads to other cameras.
 - Make sure to delete unnecessary entries within config .xml files before uploading.
 - While using radiometric cameras, delete fields that denote RBFO to avoid radiometric calibration corruption.
- To view files properly, use NotePad++ and install the XML Tools Plugin. Under the Plugins dropdown, select pretty print while viewing the .xml file.



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CONFIGURATION REPORTS

Delete these fields from config .xml reports if you plan on uploading them to another camera using radiometry. They will corrupt the RBFO terms (radiometric calibration terms) used on the camera.

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SPOT METER REGION OF INTEREST (ROI)

- The Spot Meter ROI is the purple box in the middle of the screen.
- Change the Spot Meter ROI with this tab.
- Spot Meter can use either temperature or counts.



TELEDYNE

FLIR

SPOT METER ACCURACY INDICATOR

Measures stability to determine if radiometric accuracy is ideal

RADIOMETRY STATUS				
ΔK Damping Factor	0.85000002			
Applied Clip	16383			
Spot Meter Accuracy	BEST			
Accuracy Status Bits	1111111			
REFRESH				

FRAMERATE AND SYNC CONTROL

0 Image

Appearance

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System

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Diagnostic

Tools

Media

Settings

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Calibration

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Symbols

8 Radiometry

8

Isotherms

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Refer to datasheet for explanation of each parameter below.

- External Sync options \bullet
- Frame skip options \bullet
- Averager enable/disable • options





RADIOMETRIC T-LINEAR ENVIRONMENTAL FACTORS

- Tune to increase temperature measurement accuracy.
- Refer to datasheet for explanation of each parameter.



TELEDYNE

FI IR

ISOTHERMS

Isotherms allows configuration of ranges of temperatures or % to have customized colorization.

This can be used for highlighting objects of certain temperatures with radiometric cameras, while still using the 8-bit colorized output.







ISOTHERM OPTIONS

- Non-linear: Contrast optimized mapping of color region not linearly correlated to temperature or flux
- Linear RGB: RGB ≥ RGB linear interpolation between colors
- **Disable:** Exclude from Isotherm regions
- Single color: No interpolation
- Linear HSV: Linear HSV interpolation between two colors
- Standard: Standard AGC output using current AGC colorization LUT

Isotherm controls need to be set to proper temperature units and the correct gain mode; i.e.: low gain is for high temperature measurement.

FLIR Boso	n Application v3.0			FLIR Bosor	n Applica	ation v3.0		
0	ISOTHERMS C	CONTROLS	^	o		ISOTHERMS C	ONTRO	LS
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					SET COLORS & TEMPS			
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