



WORKSWELL THERMOFORMAT

Datasheet

ThermoFormat functions overview

ThermoFormat Overview	
Image Loading	ThermoFormat is capable to open, process and export up to 70 images . There is also possibility to open visible images related to infrared images.
Image Processing	User is able to customize various parameters of images as palette, emissivity, ambient/atmospheric temperatures, humidity, distance or temperature range. These changes could be done on single image or applied on multiple loaded and selected images .
Image Export	ThermoFormat is not only capable to export one image. User is able to export multiple loaded images in one click , also with possibility of customizing final form of image.
GPS Support	If thermogram contains valid GPS data, ThermoFormat is not only able to show position on the map, but also includes GPS data in EXIF while exporting.
Temperature Units	User could change temperature units between °C and °F . The change and calculation are done with no need to restart application.

Thermal Image Settings	
Palette	User can choose from 17 palettes – BlackRed, BlueRed, BWRGB, Fire, FLIR Iron, Gradient, Gray, Iron1, Natural, Rainbow, Sepia, Steps, Temperature, WBRGB, BWIron, BWIronI, BWRainbow, BWRainbowHC, and RainbowHC.
Acquisition Parameters	User can set basic parameters as Emissivity (continuously in range 0.01 – 1.0 with step 0.01) and Ambient temperature .
Advanced Parameters	In ThermoFormat can be set/changed further parameters as Atmospheric temperature, Humidity, Distance and Transmission of external optics .
Temperature Range	Interactive temperature range can be used in manual or automatic mode. Using it you can change the color distribution of temperatures to e.g. highlight details.



Export Functions	
Single Image	User can export image in various formats as radiometric JPEG , nonradiometric PNG and also as temperature values in CSV . Image could be saved in the same file or there is option to export new files.
Multiple Images	ThermoFormat is able to export multiple images with various setting in one click.
Overlay Items	Before exporting, user can define what overlay items will be exported in final image. Those items are ROIs , Min/Max values of ROI, Palette bar and Bottom bar .
EXIF Export	Images are exported with GPS coordinates in EXIF , so that images could be used in 3D modeling (e. g. in Pix4D).
Visible Image	If the visible image is loaded with thermal image, there is option to export it in the same directory while exporting thermal image, also with GPS in EXIF .

Measurement features	
ROI Analysis	User can insert in thermogram various measurement tools/ROI such as Point , Line and Rectangle . User is able to insert more ROIs into one image, change its color, replace it or delete ROIs. Inserted ROIs are visualized in the top-right subwindow.
Pixel Temperature	User is able to display temperature of current pixel in popup label , also there is visualized value of RAW data.
Measured Values	In each ROI can be measured and visualized Min , Max , and Average temperature. User can export temperature values from the ROI as CSV file , and also set parameters such as Emissivity , Ambient temperature and Distance .
Graphs	
Thermal Profile	All measured data can be displayed in real time Thermal Profile (for Line ROI). User can adjust range of graph axis and see the measurement Target Cross for fast and easy visualization of measured graph values.
Histogram	Histogram graph is displaying frequency of measured temperatures according to placed ROI. This feature is available for Line and Rectangle ROI . User is able to adjust range of graph axis to see more detailed preview of values.



Additional functions	
Visible Image	While opening images, if the visible image is selected, ThermoFormat will load it and could be visualized in Embedded Image panel.
Export	User is able to use various options of export as radiometric JPEG, nonradiometric PNG and also CSV file with temperature or RAW values. User could also use export of multiple selected images. This type of export supports setting visibility of overlay items such as ROI , values of ROI (Min, Max) , Palette and Bottom bar with logo and additional information in exported JPEG.
User Interface	Intuitive and well-arranged user interface . User can change layout of sub-windows or restore layout to defaults. Layout is saved while user closes the ThermoFormat. In the next start of program saved layout is restored.
Docking	ThermoFormat support docking, it means panels could be excluded from main window to new window which contains only the content of excluded panel
Image Information	The information about loaded image is displayed in sub-window: filename, camera type, captured date, resolution, emissivity and reflected temperature
Camera Information	ThermoFormat shows information about connected camera: Camera manufacturer, Camera model, Name, Serial number and Resolution
Settings	User is able to set visual parameters of ROIs such as label foreground/background, fontsize and visibility or color of Min/Max marks . Also there is option to change temperature units between Celsius and Fahrenheit . Settings are saved while closing ThermoFormat.
GPS Support	ThermoFormat supports integration of GPS data from standard GPS receiver and display the position on Map.

Recommended Requirements	
Processor	Intel Core i5
Memory (RAM)	4 GB
HDD	4 GB available hard disk space
OS	Windows 7
Minimum System Requirements	
Processor	Intel Core i3
Memory (RAM)	2 GB
HDD	At least 2 GB available hard disk space





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