

FLIR UltraMax

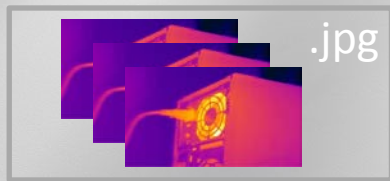
UltraMax = Super Resolution + MSX

FLIR UltraMax

- Enables the ability to measure objects of smaller size
- Increased resolution
- Decreased noise

UltraMax – Concept Overview

- Create high resolution MSX image from several lower resolution frames
- Frames are captured by the camera, but the processing is carried out afterwards in PC Software



16 frames captured, all included into the ordinary jpg tag
For the user it looks like a single file

Frames are processed when the file is imported to PC Software (FLIR Tools)

The result is an image with higher resolution and less noise

UltraMax – Limitations

- **When can UltraMax fail?**
 - There are several possible occasions when the UltraMax algorithm can fail. In such cases, the image will be resized using ordinary bicubic interpolation (still double size in both width and height).
- **UltraMax typically fails when:**
 - Too much camera movement, or no movement at all (tripod)
 - Low contrast in the image/scene
 - Bad focus
 - Parts of the scene are moving
 - The user turns the camera away too early (it takes ~1 sec to capture the image)