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Image Quality in Thermal Imaging Systems: REFRESH RATE

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In the previous newsletters we discussed key performance parameters that altogether make up a high-performance thermal imaging system. It is now time to talk about yet another one: *refresh rate*. This parameter is expressed in Hertz (or frames per second, fps) and indicates how many times video image refreshes in one second. The same idea applies to your home TV or a computer screen.

Thermal imaging detectors with refresh rates 30Hz and higher deliver superior responsiveness, fluid and “live” video image. Thermal devices that utilize such detectors are perfect for successful observation and detection of any moving objects. Detectors with lower refresh rate display video image at a slower speed which results in flickering video image that people may find uncomfortable.

It is noteworthy that some thermal imagers with refresh rates above 9Hz are hard, or in some cases, strictly prohibited to transport around the world due to export restrictions. Always ask your supplier for detailed export information.

Special points of interest:

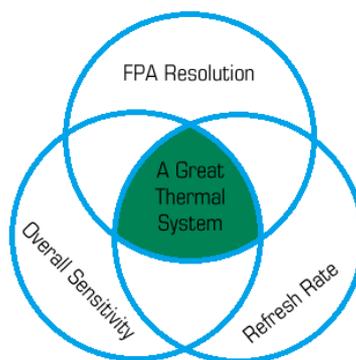
- Defining Refresh Rate
- Importance of Refresh Rate
- Dare to Compare Leading Brands' Image Quality to GSCI's?



A 60Hz thermal detector delivers 8 times more information than a 7.5Hz one.

Dare to Compare?

During last 8 weeks we have been reviewing what parameters make up a great thermal imaging system. We have discussed what those numbers mean and how they affect a thermal imager's performance. You are now armed with powerful piece of information to help you choose the right thermal imager.



We invite everybody to compare characteristics of GSCI thermal imaging systems to those from the next leading brands.

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References:

1. <http://frames-per-second.appspot.com/>
2. http://en.wikipedia.org/wiki/Frame_rate



GENERAL STARLIGHT COMPANY INC.

P.O. Box 32154
250 Harding Blvd. West
Richmond Hill, ON, L4C 9S3
CANADA



Phone: +1.905.850.0990
Web: www.gscil.com
E-mail: gsci@gscil.com

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