Questionnaire for potential buyers of systems for testing thermal imagers

The DT series systems are specialized test systems optimized for task of extensive testing/boresight of thermal imagers and thermal camera cores at laboratory/depot conditions. DT systems are not optimal for testing very short range (wide FOV) imagers. Different test systems (DTR, TCAR, SAFT, TWAP) are recommended.

Dear customer, please note that the higher number and ranges of the requirements marked in this questionnaire will have direct influence on the price of proposal version of DT test system.

1. What is list of main types of imaging systems to be tested?

Туре	Image of exemplary device
optical output short/medium thermal range imagers: thermal monocular, thermal binocular, thermal sight, thermal clip ons,	OFLIR G
electronic output medium/long range thermal sights,	
elctronic output long/ ultra long range thermal imagers,	
other:,	

If it is possible please attach the images of systems similar to your system (internet data).

2. What is minimal diameter of a circle that overlaps totally optics of the biggest thermal imager to be tested?

3. Please fill in the table with informations about imaging systems to be tested:

Spectral range	Maximum aperture	Nyquist frequency	Parameters to be measured		
□ LWIR □ MWIR			☐ MRTD ☐ MDTD ☐ MTDP ☐ SiTF ☐ NETD ☐ FPN ☐ Bad pixels ☐ SNR	☐ 3D Noise ☐ NPSD ☐ MTF ☐ SRF ☐ AutoMRTD ☐ FOV ☐ Distortion ☐ Magnification	Responsivity PVF NER NEI NEP D* Other:
Other:		Min.: Max.:	Other:		

4. What are types of alignment of	. What are types of alignment of thermal imagers are to be tested?							
Zoom-through boresight: angular shift of target marked by imager line of sight (indicated by aiming mark) when								
focusing (at different range of Deflection angle: angular s two modes: 1) clip on not used Boresight error of thermal mounting to the picatinny/dov Boresight error of thermal the reference mechanical plan	Focusing depending on version of target marked by line (d, 2) clip-on is fixed to weap imager to the reference mechanism ager to the reference mechanism ager to the reference mechanism.	e of sight of telescopic sight (in	dicated by aiming mark) at ager must be equipped with mager must be equipped with					
Additional targets	Simulated distance	Testing thermal camera cores	Testing measurement thermal imagers					
Set of eight 4-bar targets IR USAF1951A IR USAF1951B Custom:	☐ Fixed infinity ☐ Continous regulation	□ Noise parameters	☐ Low temperature range ☐ Medium temperature range					
Video interface (up to four)	Optical table	Budget preferences	General customization					
Analog USB 2.0 (DirectShow) USB 3.0 (DirectShow, Gemicam) Camera Link HD-SDI/HDMI LVDS GigE	☐ No ☐ Optical table for test system ☐ Optical table for test system and tested system: Required space for tested system:	☐ Cheapest option ☐ Typical option comparable to offered on the world market ☐ Advanced option	☐ Space application ☐ Temperature chamber ☐ Cleanroom compatibility					