



Two-stage thermoelectric cooler - 2TE						
Lens shape	Hyperhemisphere				Hemisphere	Flat
Detector optical area [mm ²]	0.5x0.5	1x1	2x2	3x3	0.5x0.5 - 3x3	0.01x0.01 - 4x4
R [mm]	0.5	0.8	1.25	1.6	0.5-1.6	infinity
A [mm]	4.1±0.3	3.2±0.3	1.85±0.3	0.8±0.3	5.6±0.3	5.6±0.3
B [mm]	5.6±0.3	5.6±0.3	5.6±0.3	5.6±0.3	5.6±0.3	5.6±0.3
C [mm]	11±0.3	11±0.3	11±0.3	11±0.3	11±0.3	11±0.3
FOV	~36°	~36°	~36°	~36°	~70°	~70°

Three-stage thermoelectric cooler - 3TE						
Lens shape	Hyperhemisphere				Hemisphere	Flat
Detector optical area [mm ²]	0.5x0.5	1x1	2x2	3x3	0.5x0.5 - 3x3	0.01x0.01 - 4x4
R [mm]	0.5	0.8	1.25	1.6	0.5-1.6	infinity
A [mm]	5.7±0.35	4.8±0.35	3.45±0.35	2.4±0.35	7.2±0.35	7.2±0.35
B [mm]	7.2±0.35	7.2±0.35	7.2±0.35	7.2±0.35	7.2±0.35	7.2±0.35
C [mm]	12.4±0.3	12.4±0.3	12.4±0.3	12.4±0.3	12.4±0.3	12.4±0.3
FOV	~36°	~36°	~36°	~36°	~70°	~70°

Four-stage thermoelectric cooler - 4TE						
Lens shape	Hyperhemisphere				Hemisphere	Flat
Detector optical area [mm ²]	0.5x0.5	1x1	2x2	3x3	0.5x0.5 - 3x3	0.01x0.01 - 4x4
R [mm]	0.5	0.8	1.25	1.6	0.5-1.6	infinity
A [mm]	7.3±0.4	6.4±0.4	5±0.4	4±0.4	8.8±0.4	8.8±0.4
B [mm]	8.8±0.4	8.8±0.4	8.8±0.4	8.8±0.4	8.8±0.4	8.8±0.4
C [mm]	14±0.3	14±0.3	14±0.3	14±0.3	14±0.3	14±0.3
FOV	~36°	~36°	~36°	~36°	~70°	~70°

Pin out	
Signal	1 and 3
Thermistor	7 and 9
TE Cooler Supply	2(+), and 8(-)
Chassis Ground	11
not used	4, 5, 6, 10, 12

A - Distance from the bottom of the T08 package to the focal plane

8	4-40 UNC A2 screw	
7	Thermo-electric cooler	
6	Detector on sapphire pad	HgCdTe / GaAs / Sapphire
5	Window	Al ₂ O ₃ / ZnSe / other
4	Detector cap	Stainless steel
3	Absorber container	Stainless steel
2	Detector case	Stainless steel
1	T08 housing	Gold plated Kovar
No.	Name	Material
UNIT: mm		Date: 18-Jul-16
GENERAL TOLERANCE: XX±0.1 / X.XX±0.05		
SCALE: 2:1		DWG NO: DT-T08-XTE.003
SIZE A4	TITLE: Detector T08 - XTE	WEIGHT: 7±1 g



Production Department

SHEET 1 OF 1

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VIGO System's detectors contains miniature amounts of mercury and cadmium but as part of medical devices, monitoring and control instruments can be treated as an exempt from the UE Directive on the Restriction of Hazardous Substances (RoHS).