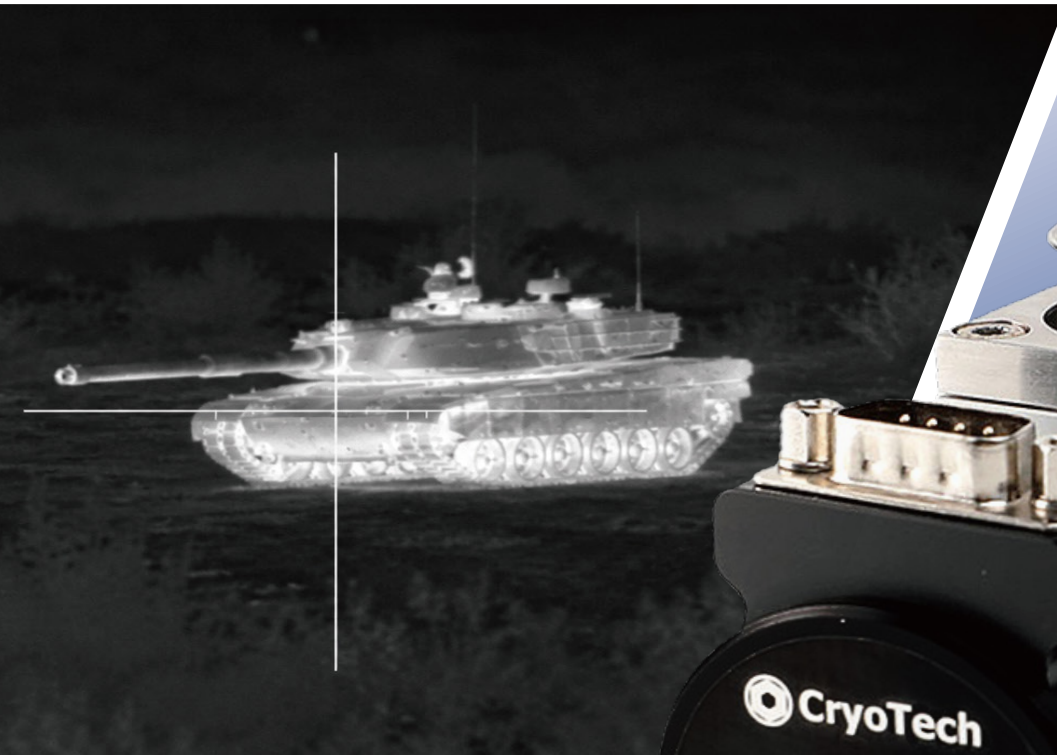
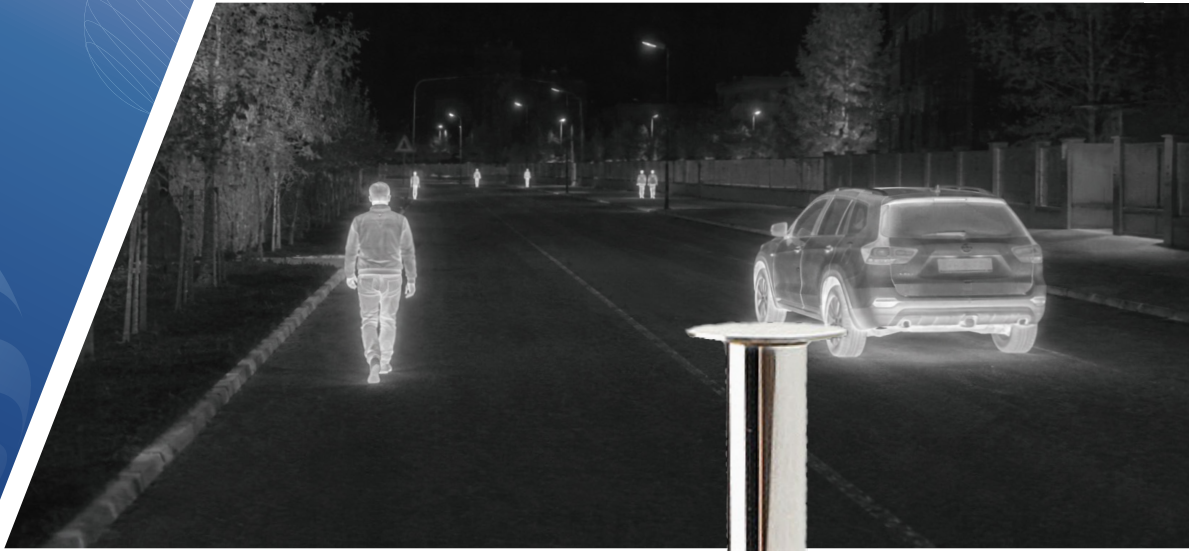


We Cool the Future

Advanced Cryogenic Coolers for EO/IR Systems



ENABLING THE FUTURE OF DEFENSE AND SECURITY

CryoTech provides high performance cryogenic coolers that enable mission-critical EO/IR systems to see farther, detect faster, and perform in the most demanding environments.



KR730
0.3W CLASS



KR750
0.5W CLASS



KR780
0.8W CLASS



KR7100
1W CLASS

WHY CryoTech



HIGH COOLING PERFORMANCE

0.3W to 1W class cryogenic coolers for diverse EO/IR applications.



SUPERIOR MTTF

Engineered for extended operational life with superior MTTF performance.



EXCELLENT IMAGE QUALITY

Enhanced IR detector performance for superior target detection.



LOW ACOUSTIC NOISE

Minimized vibration and acoustic noise for stable system operators.



FAST COOL DOWN

Rapid cooldown capability for faster mission readiness.



CUSTOMIZED SOLUTIONS

Tailored cryogenic cooler designs to meet specific customer requirements.

TRUSTED PARTNER



**20+ YEARS OF
EXPERIENCE**



**GLOBAL
CUSTOMERS**



**PROVEN IN
OPERATION**



**DEDICATED TO
MISSION SUCCESS**

CRYOTECH COOLERS POWER MISSION-CRITICAL EO/IR SYSTEMS

Proven in diverse platforms,
Delivering superior performance in any mission

FIGHTER JET



KR7100
1W CLASS

LAH(LIGHT ARMED HELICOPTER)



KR780
0.8W CLASS

ARMORED VEHICLE



KR780
0.8W CLASS

TANK



KR750
0.5W CLASS

MISSILE SYSTEM



KR750
0.5W CLASS

PORTABLE THERMAL BINOCULAR



KR730
0.3W CLASS

FROM CRYOGENIC COOLERS TO EO/IR APPLICATIONS



Cryogenic Cooler

High performance
Stirling technology



Cooled IR Detector

High sensitivity
and low noise



EO / IR System

Superior detection
and tracking

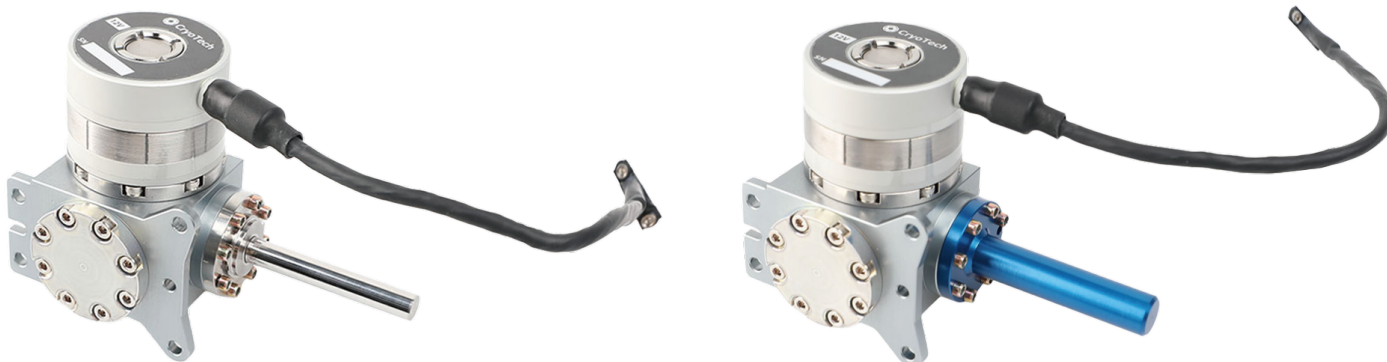


Mission Platform

Mission readiness and
operational advantage

KR730

0.3W Stirling miniature cooler



SPECIFICATIONS

Parameter	Value
Cooling Power	300mW @77K @71°C
Cooldown Time	4.5min @200J @77K @23°C
Steady State Input Power	4Wdc @160mW @77K @23°C
Maximum Input Power	13Wdc
Temperature Stability	±0.2K
Input Voltage	12Vdc
Operational	-40°C ~ +71°C
Non-Operational	-55°C ~ +85°C
Acoustic Noise	Non detectable from 30m
MTTF	10,000hr @MIL-HDBK-781
Weight	265g
Environmental Conditions	MIL-STD-810
Standard Warranty	3,000hr / 2years

MAIN FEATURES

- IDCA Type
- Low Acoustic Noise
- High Reliability
- BLDC Motor
- Cold Finger Diameter 6.4mm

KR730

KR750

0.5W Stirling miniature cooler



SPECIFICATIONS

Parameter	Value
Cooling Power	500mW @77K @71°C
Cooldown Time	5min @250J @77K @23°C
Steady State Input Power	5.5Wdc @220mW @77K @23°C
Maximum Input Power	15Wdc
Temperature Stability	±0.2K
Input Voltage	12Vdc / 24Vdc
Operational	-40°C ~ +71°C
Non-Operational	-55°C ~ +85°C
Acoustic Noise	< 23dB @5m
MTTF	20,000hr @MIL-HDBK-781
Weight	450g
Environmental Conditions	MIL-STD-810
Standard Warranty	5,000hr / 2years

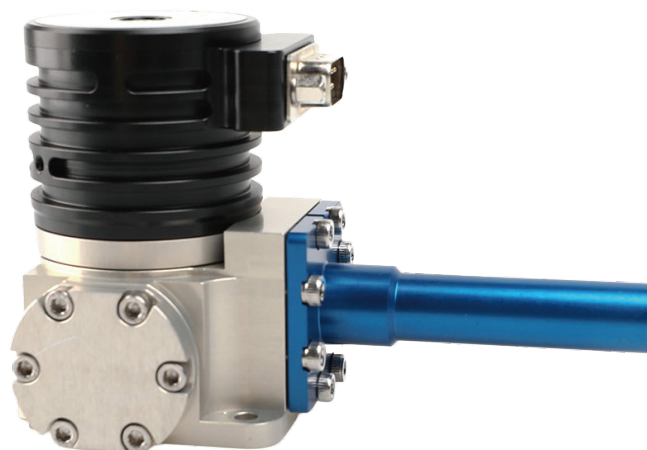
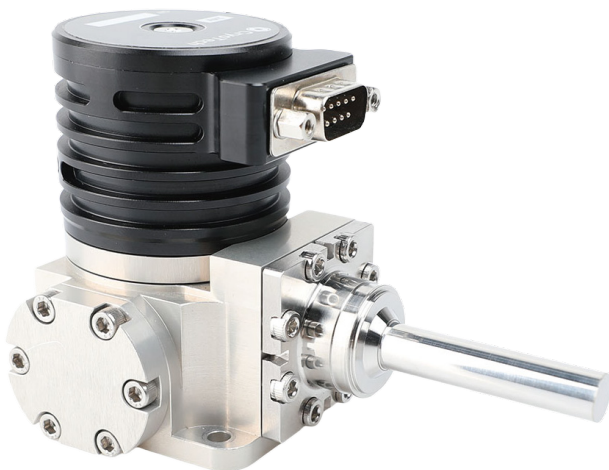
MAIN FEATURES

- IDCA Type
- Low Acoustic Noise
- High Reliability
- Onboard Controller
- BLDC Motor
- Cold Finger Diameter 8mm

KR750

KR780

0.8W Stirling miniature cooler



SPECIFICATIONS

Parameter	Value
Cooling Power	800mW @77K @71°C
Cooldown Time	5min @500J @77K @23°C
Steady State Input Power	10Wdc @300mW @77K @23°C
Maximum Input Power	40Wdc
Temperature Stability	±0.2K
Input Voltage	24Vdc
Operational	-40°C ~ +71°C
Non-Operational	-55°C ~ +85°C
Acoustic Noise	< 26dB @5m
MTTF	15,000hr @MIL-HDBK-781
Weight	600g
Environmental Conditions	MIL-STD-810
Standard Warranty	5,000hr / 2years

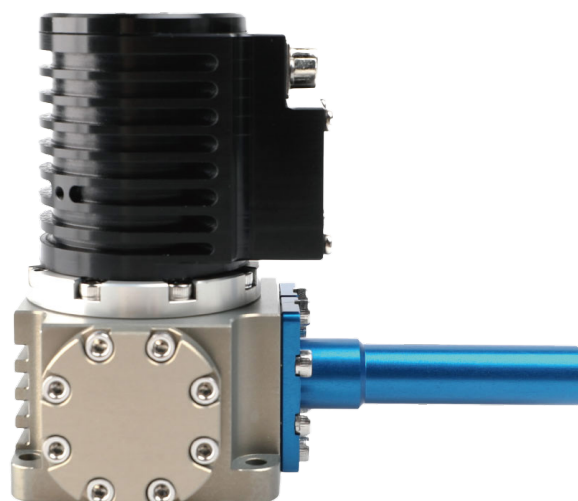
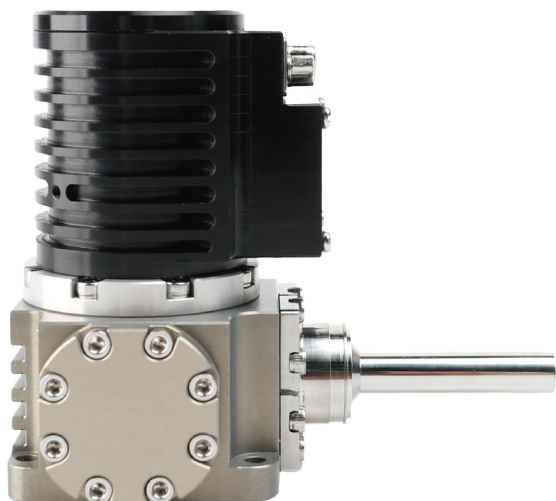
MAIN FEATURES

- IDCA Type
- Low Acoustic Noise
- High Reliability
- Onboard Controller
- BLDC Motor
- Cold Finger Diameter 9.4mm

KR780

KR7100

1W Stirling miniature cooler



SPECIFICATIONS

Parameter	Value
Cooling Power	1000mW @77K @71°C
Cooldown Time	7min @980J @77K @23°C
Steady State Input Power	15Wdc @520mW @77K @23°C
Maximum Input Power	45Wdc
Temperature Stability	±0.3K
Input Voltage	24Vdc
Operational	-40°C ~ +71°C
Non-Operational	-55°C ~ +85°C
Acoustic Noise	< 28dB @5m
MTTF	15,000hr @MIL-HDBK-781
Weight	850g
Environmental Conditions	MIL-STD-810
Standard Warranty	5,000hr / 2years

MAIN FEATURES

- IDCA Type
- High Reliability
- Onboard Controller
- BLDC Motor
- Cold Finger Diameter 9.4mm

KR7100



Contact

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