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## **Update on AIM HOT cooler developments**

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### **ABSTRACT**

Over the past decade, AIM has developed a family of compact, highly reliable cryocoolers to meet the demands of various customers and its products. These developments mainly focused on the improvement and optimization of size, weight, power consumption and cost (SWaP,C). In particular, efforts have been made to meet the requirements for ultra-compact camera cores using high operating temperature (HOT)-IR sensors as well as for high performance IR-modules using the latest digital ROIC technology.

Design features and performance data of the most recent cryocooler and cooler electronics developments will be presented. Technical details introduced to meet demanding customer requirements will be discussed.

**Keywords:** Cryocooler, Stirling, SWaP,C, IR, HOT, reliability