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Cost Effective Split and Integral Linear Stirling-Type Cryocoolers for HOT IR Imaging

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Development of cost effective, long life and low size, weight and power cryogenic cryocoolers is imperative for further advancement of existing and appearance of new sectors in cooled infrared imaging marketplace. CRYOTECH LTD reports on further progress towards development of two novel (patent pending) Stirling type split and integral linear cryogenic coolers for high operational temperature infrared imagers. The authors present the outcomes of the full scale feasibility study, characterization and initial optimization along with updated predictions of theoretical performance.