## ARRAY SYSTEMS COMPUTING INC.

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**Keywords:** X-ray detection systems.

**History:** Ontario Corporation, established in 1981.

**Capability/Products:** Array specializes in software development and systems integration in the areas of signal and image processing. CAXSS (Computer-Assisted X-Ray Screening System) consists of a touch-screen colour monitor, a computer with high speed processors and a digital interface. It operates as an add-on to x-ray scanners found in most airports such as the Linescan and the E-Scan manufactured by EG&G Astrophysics. Bomb detection is available with dual-energy scanners.

**Experience:** Array staff have worked on systems ranging from microcomputers to supercomputers and are familiar with various operating environments and programming languages. The company has supplied computerized systems for military and commercial applications, and based on a variety on sensors including satellite, radar and x-ray. Recently Array developed CAXSS for Transport Canada. This innovative system uses x-ray imaging and computer vision technology to automatically detect threats in passenger hand baggage. After analyzing the contents of the luggage, CAXSS categorizes and highlights on a colour monitor all dangerous objects found in the baggage. High level threats, such as bombs and flat guns, are highlighted in red; medium level threats, knives for examples are coded in yellow; and low level threats, like electronics, are in blue.

**Product:** CAXSS consists of a touch-screen colour monitor, a computer with high speed processors and a digital interface. It operates as an add-on to x-ray scanners found in most airports such as the Linescan and the E-Scan manufactured by EG&G Astrophysics. Bomb detection is available with dual-energy scanners.

**Plant Size:** 10,000 square feet

**Average Work Force:** 30

**Export Markets:** U.S.A., Asia

**Ratio Commercial/Defence:** 30/70

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