

Longer-Range Body Scanner

(LRBS)



**TELEDYNE
DEFENCE LIMITED**

A Teledyne Technologies Company



UNCOOPERATIVE ENVIRONMENTS

LONGER-RANGE BODY SCANNER

The Problem.

Current screening systems are limited in their operational use and effectiveness due to the following constraints:

- Stand in scanners are reliant on cooperative environments where targets must step into and remain stationary in the scanner or at a minimum, pass through the scanner in a prescribed manner. These cooperative environments are costly to construct and not always feasible.
- Stand off scanners are limited to a short effective range and a narrow depth of focus again requiring the target to be cooperative and often stationary on a fixed point for a number of seconds.

The Need.

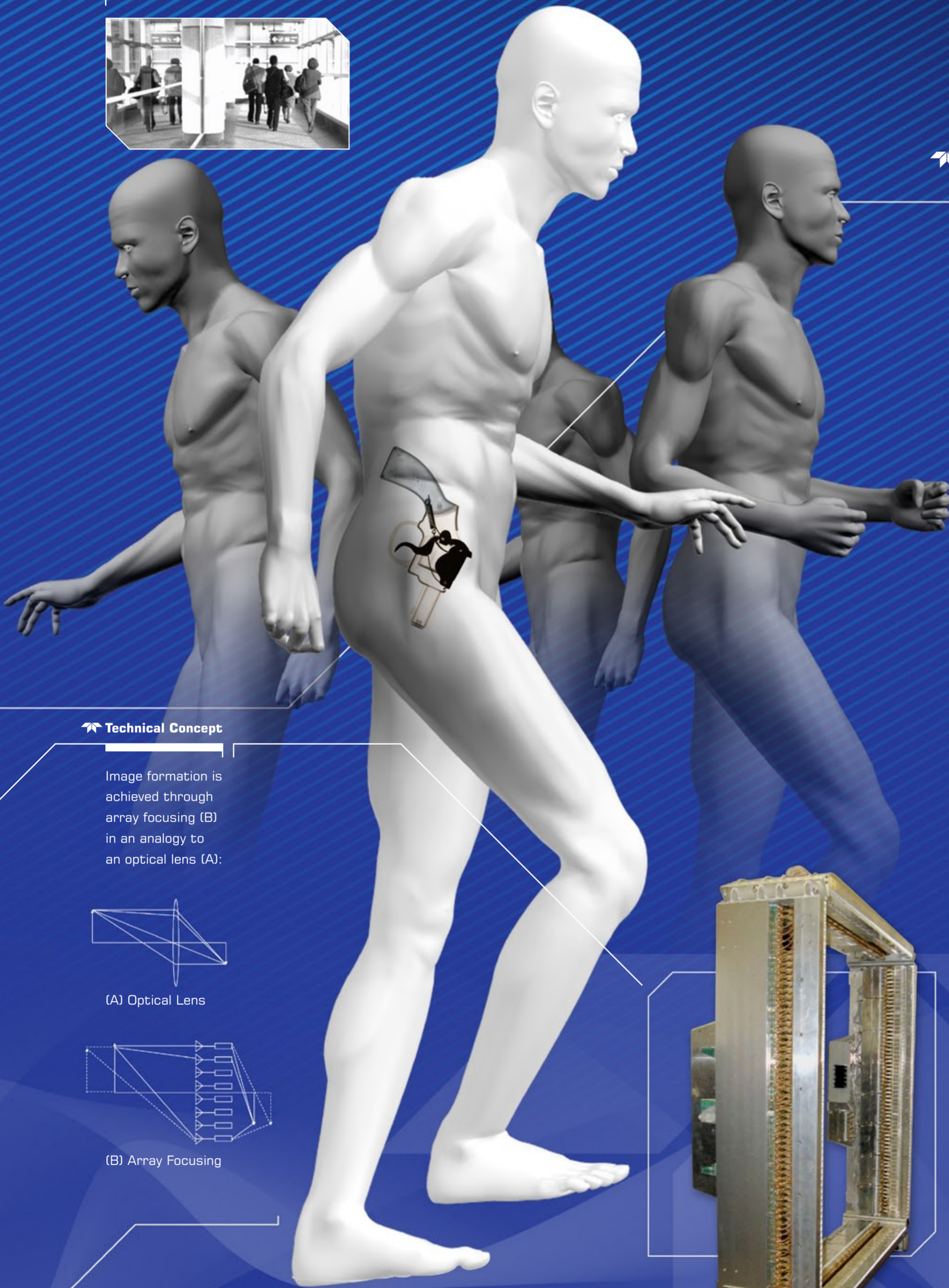
Screening systems remain of primary importance within a wide range of security applications but their effectiveness must be increased and their implementation simplified.

The Solution.

Utilising cutting edge MIMO radar technology, Teledyne Defence is developing a method of scanning to detect concealed weapons and other metallic anomalies in more uncooperative environments.

The Benefits.

- Use in uncooperative environments
- Greater range – 20m in some cases
- Ability to scan walking targets
- Ability to scan at varying distances
- Lower cost of implementation
- Simplified implementation

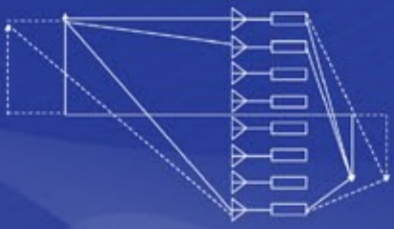


Technical Concept

Image formation is achieved through array focusing (B) in an analogy to an optical lens (A):



(A) Optical Lens



(B) Array Focusing



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