

Table 2. Typical System Trade Considerations for Border Security Applications

Security Tasking	Area Coverage	Coverage Rate	DRI Requirement	SWaP	Cost
Event Detection	<ul style="list-style-type: none"> • Very Wide • Up to 360-°Az/EI • Very broad detection range capabilities 	Very high, up to instantaneous with multiple sensors	Detection, above minimum detection threshold	Lowest SWaP to cover largest areas in depth	Low
Perimeter Detection	<ul style="list-style-type: none"> • Wide Area • Well defined detection range limitations 	100% perimeter coverage, trading off individual sensor capabilities for number of sensors	Detection, typically for a specific target type (vehicle or personnel)	Limited SWaP to cover large perimeters	Low
Intrusion Detection	<ul style="list-style-type: none"> • Limited Area 	Defined by sensor Coverage Rate and Target Speed	Recognition, of Personnel and Vehicles	Higher SWaP due to limited areas covered	Moderate
Threat Identification	<ul style="list-style-type: none"> • Very Limited 	Slow or fixed-point coverage with limited slewing capability	Identification, of Personnel and Vehicles	Highest SWaP to perform identification in limited situations	Highest