




Johnson Criteria on Thermal Detection, Recognition and Identification

Human DRI | Vehicle DRI | Inflatable Boat DRI

The Johnson Criteria assumes that the critical dimension for a human being is 0.75 meters. To get DRI, you need 1.5 pixels, 6 pixels and 12 pixels across 0.75 meters in the object pane. That means:

- Detection**
1.5 pixels / 0.75m = 2 pixels per meter
- Recognition**
6 pixels / 0.75m = 8 pixels per meter
- Identification**
12 pixels / 0.75m = 16 pixels per meter

Assuming that a man is 1.83m by 0.5m, the following would apply:




		
Detection 3.6 pixels by 1 pixel (You can see something is there)	Recognition 13 pixels by 5 pixels (You can see that a person is there)	Identification 28.8 pixels by 8 pixels (You can see that the person looks like a soldier)

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- Recognition**
6 pixels / 0.75m = 8 pixels per meter
- Identification**
12 pixels / 0.75m = 16 pixels per meter

Assuming that a vehicle is 4m by 1.5m, the following would apply:




		
Detection 2.8 pixels by 1 pixel (You can see something is there)	Recognition 13 pixels by 5 pixels (You can see that a vehicle is there)	Identification 26 pixels by 10 pixels (You can see that the vehicle may be a humvee)

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- Recognition**
6 pixels / 0.75m = 8 pixels per meter
- Identification**
12 pixels / 0.75m = 16 pixels per meter

Assuming that a inflatable boat is 9m by 1m, the following would apply:

		
Detection 4.5 pixels by 1 pixel (You can see something is there)	Recognition 18 pixels by 2 pixels (You can see that a boat of some kind is there)	Identification 36 pixels by 4 pixels (You can see that the boat is a small Inflatable Boat)