

About everis Aerospace and Defense

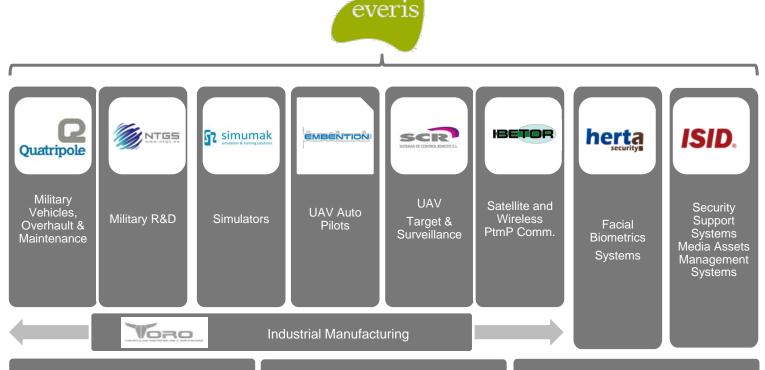




everis Aerospace & Defense

Innovative and reliable technologies offering the best capabilities to our clients

and Defense



Mortar Carrier Challenge



Aerospace



Peak Recoil Force 30 Tons during 0.01 sec. **

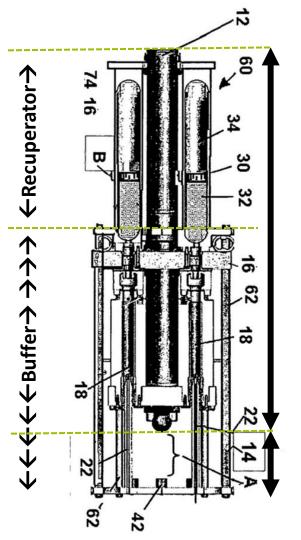
^{*} Measurement based 120 mm mortar from ECIA with 7 supplements (full charge)

^{**} Based on information about SRAMS (first to achieve only 30Tons recoil force)

Mortar Carrier Challenge







Shooting energy ... approx. 500,000 Jules

- Transmitted to the vehicle ≈ 100,000 Jules
- **Absorbed** ≈ 400,000 Jules

But... "Energy can neither be created nor destroyed"

Absorbed ≈ 400,000 Jules ≈ 100,000 Cal



Non dissipated energy, together with the absorber structure limit the system capability for iterative shooting (cook-off)

^{*} Recoil absorber. http://www.google.com.tr/patents/EP2400255A2?cl=en

Mortar Carrier Challenge Effect on the vehicle





Peak Recoil Force 30 Tons during 0.01 sec This is equivalent to 10 Humvees with their crew.



ALAKRAN MORTAR CARRIER



ALAKRAN Mortar Carrier System brings a different perspective to the standard recoil absorber approach.

• Simpler, Smarter and more common sense solution.

Shooting from the ground with an automatic control and aiming from the vehicle.









 $\leftarrow\leftarrow\leftarrow\leftarrow$ 12 seconds to deliver fire power $\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow$ / $\leftarrow\leftarrow$ 5 seconds out of action $\rightarrow\rightarrow\rightarrow$





Some achievements

We have developed the world fastest and most rewarded facial recognition system.

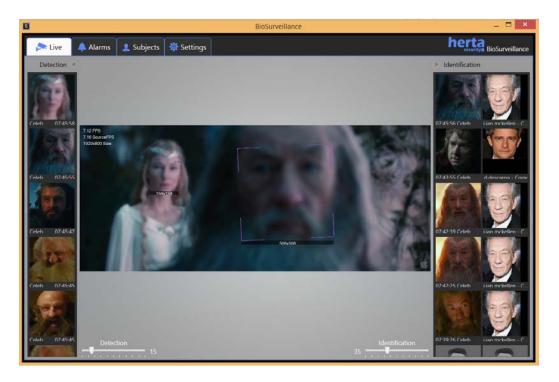






Herta Technology

Algorithms







Every face detected is sent to the identification algorithm



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Faces detection algorithm

Identification algorithm



Video Management vs Photo Management Accuracy

Video (approx. 24 frames per second)



Working with video will provide many identification chances. 3 second video will provide about 72 images to be compared.



Meanwhile working with photos will give us only 1 identification chance.

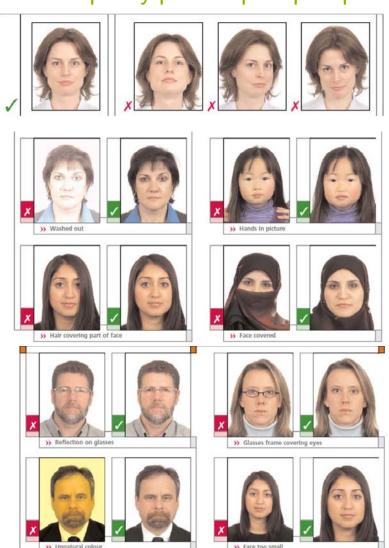
To be successful in photos identification we need to work with really high quality photos in the "wanted list photo set" and the "analysis photo set".

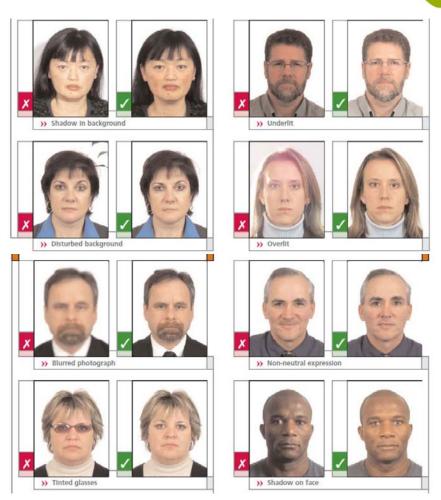
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Video Management vs Photo Management

Good quality photo -passport photo





Good quality photos will provide good identification results. Bad quality photos will provide false positives or non-identification



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