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CORE™ Image Intensifier Tube

Thanks to the latest advancements in electro optical manufacturing Armasight redefines affordable high performance night vision with CORE™ (Ceramic Optical Ruggedized Engine) Image Intensifier technology.



CORE™

VS.



Gen 1

Unlike Gen 1 Image intensifier tubes that are fragile by a virtue of being made from glass, CORE™ IITs are made just like Gen 2 and Gen 3 by fusing metal alloys with ceramic compounds. CORE™ technology is based on durable elements and allows tight component stacking, resulting in image tubes that are exceptionally shockproof and vibration resistant. This makes CORE™ IITs ideal for weapon sight application. Robust packaging envelop lacks easy-to-break protrusions common in Gen 1 tubes and allows for streamline design of lighter, compact and more reliable night vision devices.

CORE™ platform offers best in class resolution with over 70 lp/mm, increased photocathode sensitivity level in upwards of 400 μ A/lm and infinite (!) Signal to Noise (SN) providing image quality in prevalent ambient light condition rivaling high end Gen 2 image tubes.

CORE™

Recoil proof • Superior Image quality • Affordable

Key Parameter	Gen 1	Armasight CORE™	Gen 2 (commercial grade)
Photocathode sensitivity, white light , μ A/lm	150-250	350-400	300-500
Resolution lp/mm , typical	27-40	60-70	45-55
Signal to Noise Ratio (SN), typical	∞	∞	18-21
Recommended Recoil, g, Max	200	500	500