

alphashot
design integration

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Company Overview

The promoters of AlphaShot Design Integration LLP bring with them several decades of extensive experience in manufacturing and management across diverse industries.

The company was established with a focused vision: to design and develop indigenous technologies that cater to the requirements of India as well as other developing and developed nations.

Backed by a large team of highly skilled engineers in mechanical, electronics and software engineering, AlphaShot is well-equipped to take on complex challenges in cutting-edge technology development.

Key areas currently under design and development include:

- Attack quadcopters, grenade delivery systems and other munitions
- Miniature body-worn quadcopter/drone detectors
- Quadcopter directional locators
- All-terrain robotic platforms



AlphaShot Advanced Artillery Upgrade Suite

Transforming Legacy Guns into Modern Precision Systems

AlphaShot brings cutting-edge technology to existing **105 mm, 130 mm, and 155 mm Field Artillery Guns**, delivering accurate positioning, automatic laying, ballistic calculation, look-up table integration, optics package for direct fire, MVR and GPS/IMU for navigation. Our turnkey upgrade solution installs directly on-site, seamlessly integrating advanced electronics, sensors, and automation while keeping manual systems fully operational.

With AlphaShot, artillery becomes faster, smarter and more accurate — without the cost of replacing entire weapon systems.

What We Deliver

- Precision Automatic Laying in Elevation and Traverse < 1 mill
- Ballistic Computation & Lookup Tables for both modern and legacy ammunition
- Correction for tilt and inclination
- Optics Package for Direct Fire: Day Camera + Thermal Optics + LRF
- Muzzle Velocity Radar (MVR) for shot-to-shot accuracy
- GPS / IMU Navigation for reliable positioning, even in GPS-denied environments
- Keeps original handle operations functional without replacement

Key Advantages

- Rapid and Accurate Laying in Elevation and Traverse
- Automatic compensation for unlevelled ground, tilt & inclination
- Bright sunlight readable 10" hand held display unit with touch screen
- Complete video display, Day + Thermal, Picture In Picture format with cross hair and LRF data displayed on video screen. Also displayed Ammunition type & stock position
- Automatic recording of all set and measured parameters after each shot.
- Inventory control
- Can be interfaced to existing Radio Modules (optional)
- Multiple guns can be interfaced and commands be given from a single location
- Operates on 24 V DC battery bank.
- Easy installation & service
- MIL STD 461 E/F, JS55555 - Vibration, Shock, Water ingress, EMI/EMC

Upgrade. Enhance. Dominate.

A cost-effective path to modern precision artillery with minimum downtime built for today's missions and tomorrow's battles.