

GHOST

Multispectral Thermal Concealment System

by SPECTRA SOL

GHOST is particularly effective in reducing the thermal and multispectral signature of communication equipment, power units, sensors, and field infrastructure that generate heat during operation, especially in environments where drone surveillance, FLIR observation, or LiDAR mapping are expected.

GHOST

OPERATIONAL ADVANTAGES

- Reduced probability of thermal detection
- Lower signature contrast against natural backgrounds
- Rapid deployment in field conditions
- Adaptable to fixed or mobile configurations

DEPLOYMENT CONSIDERATIONS

(For optimal performance)

- Maintain an air gap between heat source and material
- Ensure ventilation where possible
- Avoid direct contact with high-temperature surfaces

These measures significantly improve thermal signature reduction.

DESIGNED FOR REAL CONDITIONS

- Desert environments
- High solar load conditions
- Mobile and static configurations
- Extended field deployment



MULTISPECTRAL THERMAL CONCEALMENT SYSTEM



Signature Control. Operational Advantage.

GHOST

Our company pays attention to the quality controlling, researching, developing and the environmental protection.

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GHOST

by SPECTRA SOL

SPECTRA

PROFESSIONAL FABRICS MILITARY/POLICE/INDUSTRY

SOLUTION

GHOST by SPECTRA SOL

Multispectral Thermal Concealment System

GHOST is a multispectral concealment material engineered to reduce the detectability of personnel, vehicles, and equipment against modern surveillance and targeting systems, including MWIR and LWIR thermal imaging devices, FLIR systems, LiDAR-based sensors, and drone-mounted reconnaissance platforms.

- Reduces thermal signature
- Minimizes contrast with the environment
- Delays heat transfer to the outer surface
- Significantly lowers the probability of detection

GHOST Multispectral Thermal Concealment System



KEY CAPABILITIES

- **Thermal Signature Reduction**

- **Counter-Drone Signature Reduction**

Material properties reduce detectability from UAV-mounted thermal cameras, electro-optical sensors, and automated aerial reconnaissance systems, decreasing probability of detection and identification.

- **Multispectral Performance**

Optimized surface properties reduce visibility in:

- Visible spectrum (VIS)
- Mid-Wave Infrared (MWIR)
- Long-Wave Infrared (LWIR)
- Reduced detectability against active sensing technologies such as LiDAR

- **Controlled Emissivity Surface**

Outer layer engineered to stabilize surface temperature and reduce radiative contrast.

- **Thermal Buffering Structure**

Material structure slows heat transfer and helps maintain external temperature closer to ambient conditions.

- **Low Weight / High Mobility**

Designed for rapid deployment and integration with field equipment.

- **Environmental Resistance**

Operational in:

- High temperature environments
- Sand and dust exposure
- UV radiation
- Humidity and precipitation

OPERATIONAL PURPOSE

Modern reconnaissance platforms rely on thermal imaging (including FLIR), optical sensors, LiDAR scanning, automated detection algorithms, and UAV-based surveillance systems.

GHOST is designed to reduce exposure to these threats by limiting thermal contrast, reducing multispectral visibility, and disrupting target recognition and sensor acquisition.



APPLICATIONS

- Personnel concealment
- Vehicle signature reduction
- Equipment protection
- Temporary field positions
- Observation and surveillance posts
- Critical infrastructure protection
- Concealment of assets against UAV and counter-drone reconnaissance

GHOST = TOP PRODUCT by SPECTRA SOL