

PLATFORMS — AIR, LAND & SEA

Defending the Moving Platform.

Physical-layer electromagnetic protection engineered for combat aircraft, unmanned systems, ground vehicles, naval combatants, and mobility fleets — where signature control, EMI hardening, HPM resilience, and directed-energy protection must be engineered onto the platform, not bolted to it.

AIRCRAFT · UAS · GROUND VEHICLES · NAVAL · MOBILITY

In production. Manufactured in Dallas, Texas.
Independently validated under ASTM D4935-10 across the 30 MHz through 1.5 GHz sweep by an accredited third-party laboratory. Configured per program, delivered to accredited-integration point.

40–100+ dB

Attenuation

Configured per airframe

ASTM D4935-10

Independently validated

Planar shielding standard

In Production

Dallas, Texas **GT OPTICS, INC.**

U.S. supply chain | Corporate HQ: 1601 Elm Street, Suite 1100, Dallas, TX 75201

Manufacturing Facility: Dallas, Texas · Manufactured in USA · Independently validated under ASTM D4935-10

Brian Figueroa, Chairman · brian@gtoptics.io · 949-482-7825

Grams/m²

Weight budget

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NAVAL INTEGRATION

SecureWrap® applied to superstructures and radar apertures — signature control without profile penalty.

MARKET & PLATFORM

One Platform. Every Moving Envelope.

Sector Reality.

Mobile platforms — combat aircraft, ground vehicles, naval combatants, unmanned aerial systems, commercial aviation, and mobility fleets — carry the same physical-layer threat profile as fixed facilities, but under weight, profile, and drag constraints that bulk shielding cannot meet. Signature control, EMI hardening, HPM resilience, and directed-energy protection have to be engineered onto the platform, not bolted to it.

The GT Optics Answer.

SecureWrap® is a coating and film system applied at grams per square meter to composite, metal, glass, and polymer substrates. It is form-factor-flexible and platform-agnostic — engineered per airframe, hull, or vehicle class, and qualified against the substrate, film stack, and integration geometry of the host platform. Same platform. Every threat band. No dead-weight added.

GT OPTICS · DALLAS, TEXAS

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APPLICATIONS

Environments & Configurations.

APPLICATION	WHAT IT PROTECTS	GT OPTICS CONFIGURATION
Combat aircraft	Fixed-wing airframes requiring signature control and RF/IR hardening.	Coating applied across composite skins, radomes, and canopy adjacencies — configured to the mission threat profile.
Unmanned aerial systems	MQ-9 Reaper-class and similar UAS airframes across ISR and strike missions.	Coating on composite fuselage, sensor turret, and wing skins — grams per square meter, no drag penalty.
Ground vehicles	Combat vehicles, tactical wheeled platforms, and mobile command posts.	Retrofit film application to hull skins, hatches, and antenna enclosures — configurable per platform class.
Naval combatants	Surface combatants, patrol craft, and subsurface adjacencies.	Coating applied to superstructure surfaces, radar apertures, and sensor housings — engineered for maritime environment.
Commercial aviation & mobility	Fleet aircraft, secure-executive travel, and mobility platforms requiring physical-layer protection.	Film retrofit or coating during MRO cycles — configured per operator threat profile.
Portable secure envelopes	Mobile ground stations, expeditionary command, and transportable secure units.	Factory-integrated film treatment of transportable skins and modular units — accreditation-ready.

FIELD-DEPLOYABLE TODAY

Grams per square meter across every substrate — engineered onto the airframe, hull, or vehicle class, not bolted on afterward.

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THREAT COVERAGE

What SecureWrap® Addresses.

THREAT / REQUIREMENT	HOW SECUREWRAP® ADDRESSES IT
Signature control (radar / IR)	Broadband attenuation and IR-band engineering delivers cross-spectrum signature reduction on moving platforms.
HPM and directed-energy	Engineered attenuation across HPM and directed-energy bands protects platform electronics from pulsed and continuous threats.
RF exploitation & signal pickup	Physical-layer barrier defeats remote signal reconstruction across composite and metallic skins.
EMI and self-interference	Isolates onboard emitters and sensor payloads — protects signal integrity across shared platform buses.
Weight, profile, drag budget	Applied at grams per square meter to existing skins — no structural load, no profile penalty, no drag added.
Depot cycle disruption	Retrofit possible during MRO windows without demolition or heavy structural modification.

INDEPENDENT VALIDATION

Validated, not promised.

Every performance figure traces to an independent third-party report on file. SecureWrap® is qualified under ASTM D4935-10, the planar-material shielding-effectiveness standard, at an accredited third-party laboratory across the 30 MHz through 1.5 GHz sweep. Attenuation is configurable from 40 dB to 100+ dB per program — engineered against the host substrate, film stack, and integration geometry. Configuration-specific qualification is performed at the integration point by the accrediting authority.

ASTM D4935-10

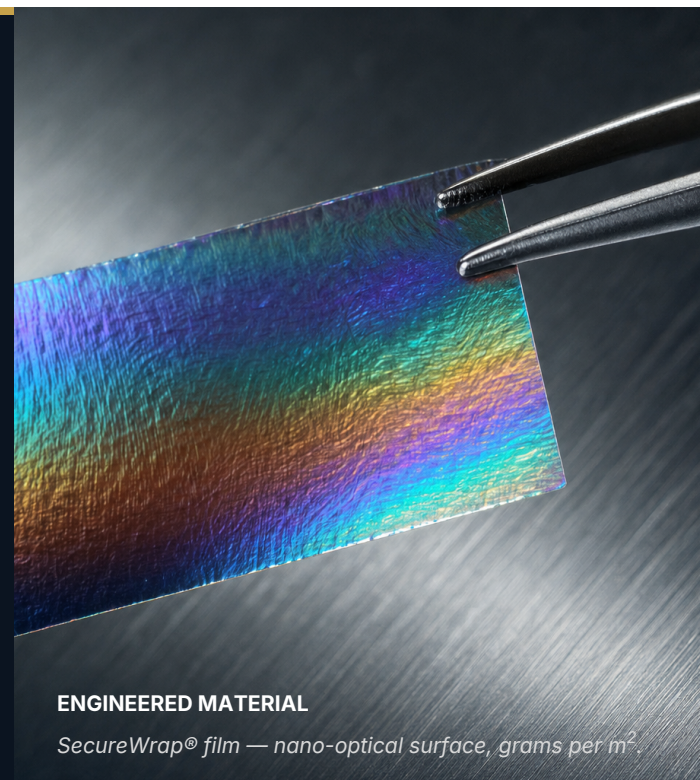
Planar-material shielding-effectiveness standard

30 MHz – 1.5 GHz sweep

Independently swept frequency band by accredited lab

3rd-party laboratory

Accredited reports on file per configuration



ENGINEERED MATERIAL

SecureWrap® film — nano-optical surface, grams per m².

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WHY SECUREWRAP® FOR PLATFORMS — AIR, LAND & SEA

The Case for the Platform.

- **Airframe-grade attenuation, film-thin.** 40 dB to 100+ dB per program with no dead-weight added — independently validated under ASTM D4935-10.
- **Retrofit or new build.** Coating during platform manufacture, film during depot cycles, factory-applied for modular units — same platform, every form factor.
- **Full-spectrum by design.** One optical stack engineered simultaneously across RF, IR, and directed-energy bands.
- **U.S.-domiciled supply.** Manufactured at the GT Optics facility in Dallas, Texas; tested through accredited third-party laboratories.

THE PLATFORM ADVANTAGE

"Mastering the spectrum of stealth — in production today, manufactured in Dallas, Texas, validated by accredited third-party laboratories."

TYPICAL BUYERS & INTEGRATION PARTNERS

Who We Work With.

- **Prime aerospace & defense integrators.** Combat aircraft, UAS, and rotary-wing platform programs.
- **Ground vehicle OEMs & tactical integrators.** Combat vehicles, tactical wheeled platforms, and mobile command programs.
- **Naval combatant programs.** Surface combatants, patrol craft, and specialized maritime platforms.
- **Commercial aviation & mobility.** Fleet operators, secure-executive travel, and mobility program teams.



MANUFACTURED IN DALLAS, TEXAS

Engineered onto the platform.

READY FOR BRIEFING

Talk to GT Optics.

Full white papers, capability briefs, product one-pagers, and test reports available on request.

DIRECT CONTACT

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