Counterfeit goods cost the United States over $600B each year. The anti-counterfeiting industry continuously develops new technologies since market ready solutions do not eliminate all counterfeiting techniques. There is a particular need for stronger methods of anti-counterfeiting in the pharmaceutical, ticketing, and bank note industries.

The proposed technology enables full color holographic image projection across the electromagnetic spectrum for static or dynamic images with high efficiency and almost no absorption losses. The holographic images can operate in transmission or in reflection, making them incredibly difficult to counterfeit.

- Increases efficiency by reducing absorption losses.
- Allows customization regarding hologram design (2D or 3D, reflective or transmissive).
- Lowers manufacturing costs.
- Projects across both visual and non-visual light spectra.
- Tunable to multiple security and anti-counterfeit applications.


**TECHNOLOGY SUMMARY**

**TECHNOLOGY TYPE**
Holography  
Anti-Counterfeit Technology Devices  
Security  
Nanotechnology  
Optical Sensors

**STAGE OF DEVELOPMENT**
- Prototype developed.
- Ongoing tests to demonstrate efficacy.

**IP PROTECTION**
PCT filed.

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**LEARN MORE**
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