

E-Beam Lithography Mastering

Diffraction Optically Variable Image Devices

APPLICATION DOMAINS

Security Applications

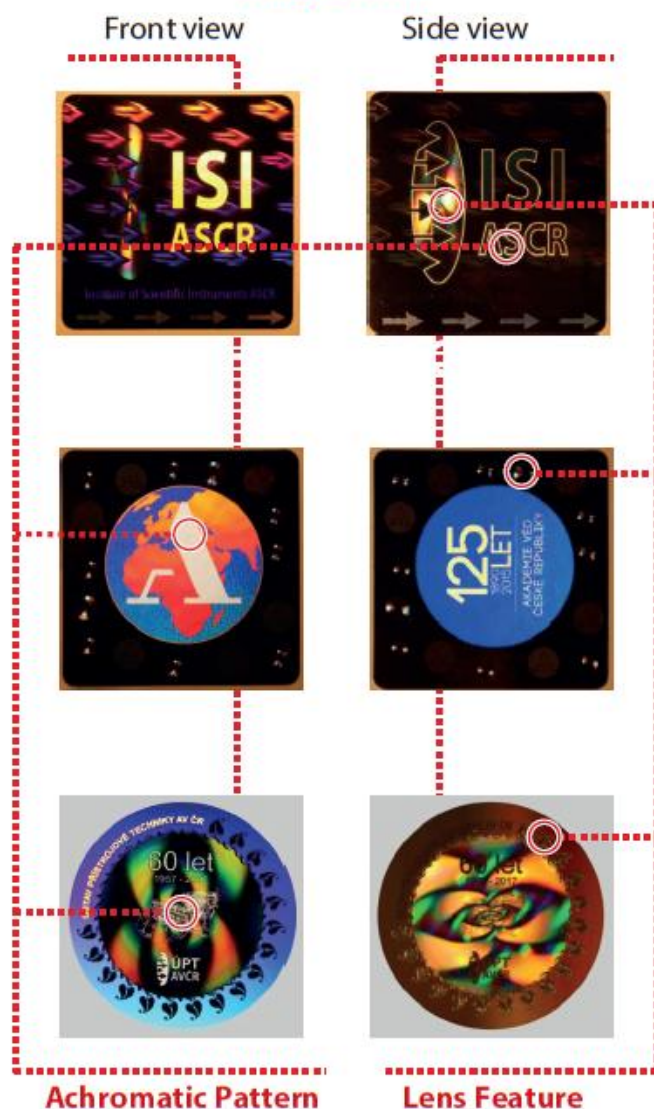
- ✓ Security documents, ID's
- ✓ Certificates, warranty
- ✓ Brand protection & promotion
- ✓ Stickers, original, genuine, ...

Art Applications

- ✓ Holographic and lens-like packaging
- ✓ Eye-catching images, ...
- ✓ Coins, jewelry, tokens, ...
- ✓ Collection cards, ...

CASE STUDIES — EXAMPLES

Image Switch



Achromatic Pattern

Lens Feature

MAIN FEATURES

Basic Features

- ✓ Image switch ①
- ✓ Achromatic image ②
- ✓ Lens-like feature ③



Advanced Features

- ✓ Omni directional animation ④
- ✓ Gyrocompass effect ⑤
- ✓ Zero-order colors ⑤
- ✓ Embossing feature ⑤

Hidden Features

- ✓ Laser-readable ⑥
- ✓ Colored micrographics ⑦
- ✓ Nano lettering ⑧



Customized Features

- ✓ Polarizing structures
- ✓ Plasmonic features
- ✓ Diffractive black

What you will benefit from

- ✓ Long-lasting experience (more than 20 years).
- ✓ Fast master hologram production
- ✓ Beyond the limits experience.
- ✓ From science through R&D, to final product.



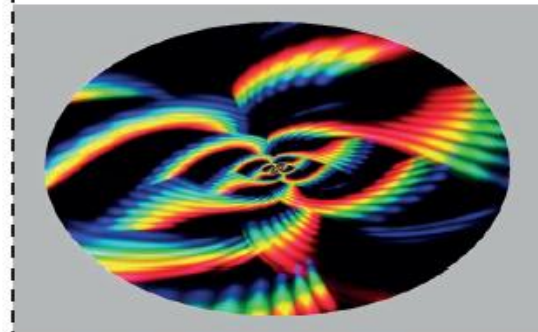
Master hologram production

Technical Advantages

- ✓ Large mastering area (up to 150 mm × 150 mm).
- ✓ High flexibility in design (combination of various features).
- ✓ Customer-related approach.



Jewelry with a teardrop motif



Spiral grating background pattern



6-inch mask for candies imprint



Ear drop with a diffractive motif