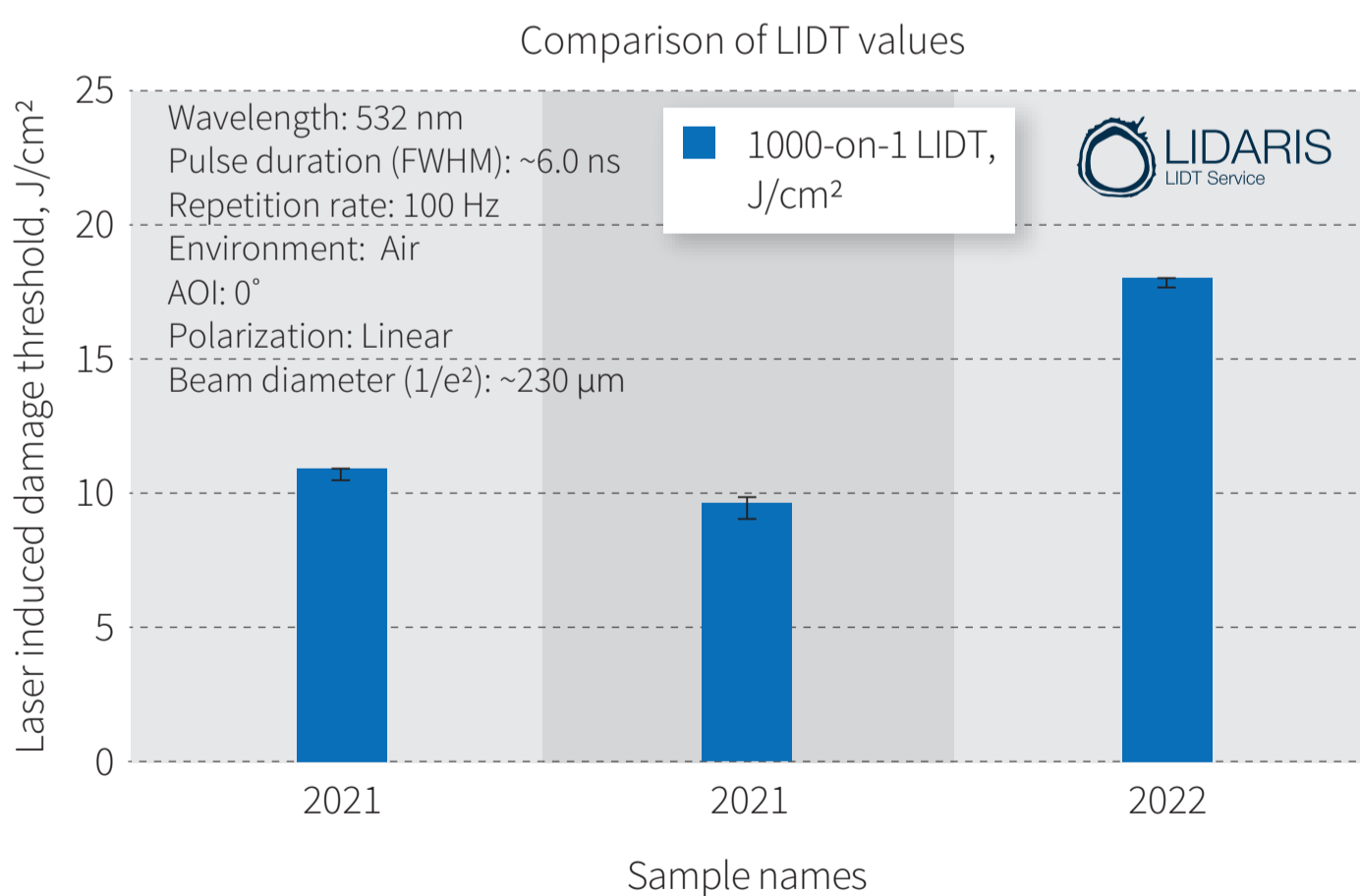


# MEDICAL APPLICATIONS

SURGICAL · AESTHETICS · OPHTHALMIC

The complexity of such solutions is related to the nature of these types of laser. A combination of 1064 + 532 nm with 755 nm is needed to effectively remove hair for all skin types. A key performance indicator for this application of optics is outstanding LIDT, supported by top-notch spectral properties.

In the past year, Altechna has developed tri-band AR optics with additional sub-surface preparation before the deposition of optical coatings. Using this technique, we were able to almost double the LIDT from  $>10 \text{ J/cm}^2$  @ 532 nm, 6 ns in 2021 to  $>18 \text{ J/cm}^2$  @ 532 nm, 6 ns in 2022.



# MEDICAL APPLICATIONS

SURGICAL · AESTHETICS · OPHTHALMIC

We have also developed ultra-low absorption, high LIDT AR coatings for a single wavelength 1064 nm (absorption  $<0.4$  ppm, LIDT  $>100$  J/cm<sup>2</sup>) Nd:YAG laser line, which is a core component of such aesthetic systems.

