



LASER THUNDER ART COMPACT

**Nd:YAG Q-switched laser
Art.19787/COMP**

This model is designed for restoration and conservation of works of art and is suitable for cleaning and conservation treatments on materials such as stone, plaster/stucco, wood, metal, and glass.

When using the laser on surfaces such as stone and frescoes, parameters such as energy, wavelength, pulse frequency, and focusing must be adjusted with great care; incorrect settings may leave marks or cause damage to the surface. For this reason, such devices are generally operated by professional conservators/restorers.

A single compact restoration laser with two different laser emission wavelengths in the same unit:

1 J at **1064 nm (infrared)** and **500 mJ at 532 nm (green)**.

With its compact dimensions and low weight, this next-generation laser system combines two different laser wavelengths (1064–532 nm) with high energy values (1–0.5 J). The wide and adjustable spot diameter speeds up cleaning applications. This versatile device can be used on many surfaces such as plaster, wood, fabric, glass, and stone. The **532 nm wavelength** is particularly effective for the removal of biological growth and biological encrustations.

The system is equipped with a modern **touchscreen interface** that allows easy adjustment of the laser emission parameters.

Technical Specifications

- **Wavelengths:** 1064 nm and 532 nm
- **Pulse duration (Q-switch mode):** 6 ns
- **Maximum energy per pulse:**
 - o 1064 nm: 1 J
 - o 532 nm: 500 mJ
- **Repetition rate:**
 - o up to 20 Hz at 500 mJ (1064 nm)
 - o up to 10 Hz at 500 mJ (532 nm)
- **Spot diameter:** 10 mm
- **Beam delivery:** 7-mirror articulated arm
- **Handpiece:** Fixed focal length
- **Beam profile:** Gaussian





BRESCIANI

Restorasyon ve Koruma Malzemeleri ve Ekipmanları



TEKNİK VERİ SAYFASI

ver.1/1



- **Triggering:** Controlled by the operator via a **foot pedal** (an **integrated trigger on the handpiece** is also available)
- **Cooling system:** Closed-loop air/liquid assisted cooling system with heat exchanger
- **Power requirements:** 230 V / 50–60 Hz / 10 A
- **Dimensions (D × W × H):** 24 × 79 × 92 cm
- **Weight:** 60 kg
- **Safety class:** Class 4 laser

Note: The use of **laser safety goggles with specifications appropriate to the device's operating frequency** is mandatory.

The **Q-Switch technology** generates extremely short **high-energy pulses (in the nanosecond range)**, allowing the controlled removal of **dirt, biological deposits, corrosion products, and other unwanted surface layers** without damaging the underlying material.

BRESCIANI TR

The information provided herein is accurate and complete to the best of our knowledge, but does not constitute any guarantee unless explicitly stated. As the conditions of use are beyond our control, we disclaim all liability, including any patent infringement, that may arise in connection with the use of this product data or the recommendations provided.

Professional use only