

CONQUEROR *ALL-IN-ONE* UV-LASER SOURCES

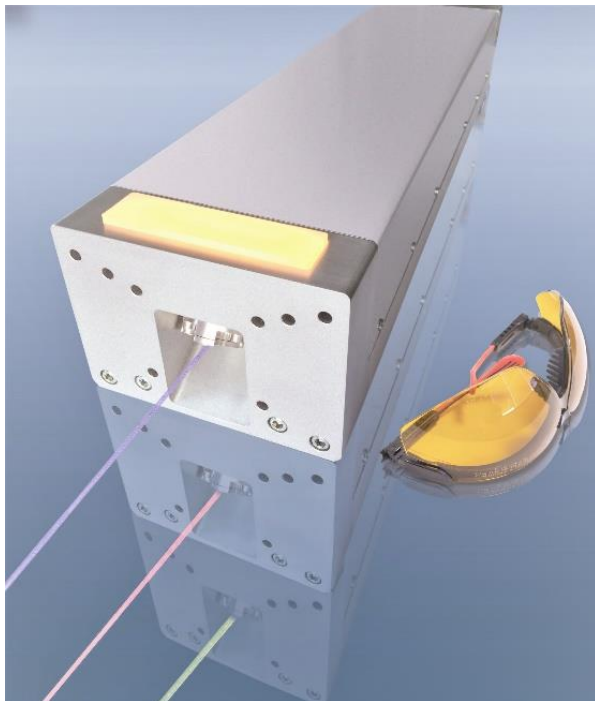
PRODUCT ADVANTAGES

State-of-the-art diode-pumped, q-switched solid-state laser

Laser head, power supply and controller are integrated into one highly compact unit

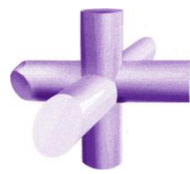
Powerful all-round laser system for maximum flexibility and productivity

Optimized temporal pulse profiles due to external frequency conversion



- High average power: > 15 W @ 50 kHz
- Short laser pulses of 8 ns
- Perfect beam quality $M^2 < 1.3$
- High UV single pulse energy of 500 μ J available
- Single-shot to 300 kHz
- Modular architecture consisting of hermetically sealed modules
- Software driven motorized THG-Shifter (up to 1,600 spots!) implemented as standard

- **Uncompromised extra-large THG-crystal, expected life-time over 50,000 hours**
- **Service and maintenance friendly design:**
 - Easily replaceable, resolvable output window for harsh environments
 - Straightforward safe cleaning of air-cooling device
 - Controller unit consisting of one single circuit board only
 - Total system power consumption < 300 W
 - Very low heat emission even under permanent use
- **With a water cooling-plate or optional entirely air-cooled**



COMPACT
LASER
SOLUTIONS

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APPLICATION NOTE

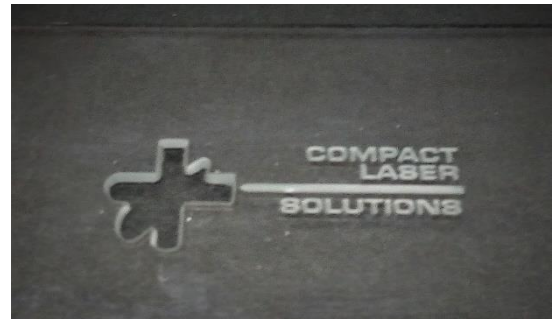
UV laser machining of transparent materials:
glass, fused silica, sapphire, diamond, polymers

Example: soda-lime glass (thickness = 1 mm)

Internal Coding & Marking (front and rear surface remain intact)



Surface Marking and Deep Engraving (micro-material removal)



Surface Functional Structuring (e.g. for micro fluid applications)

