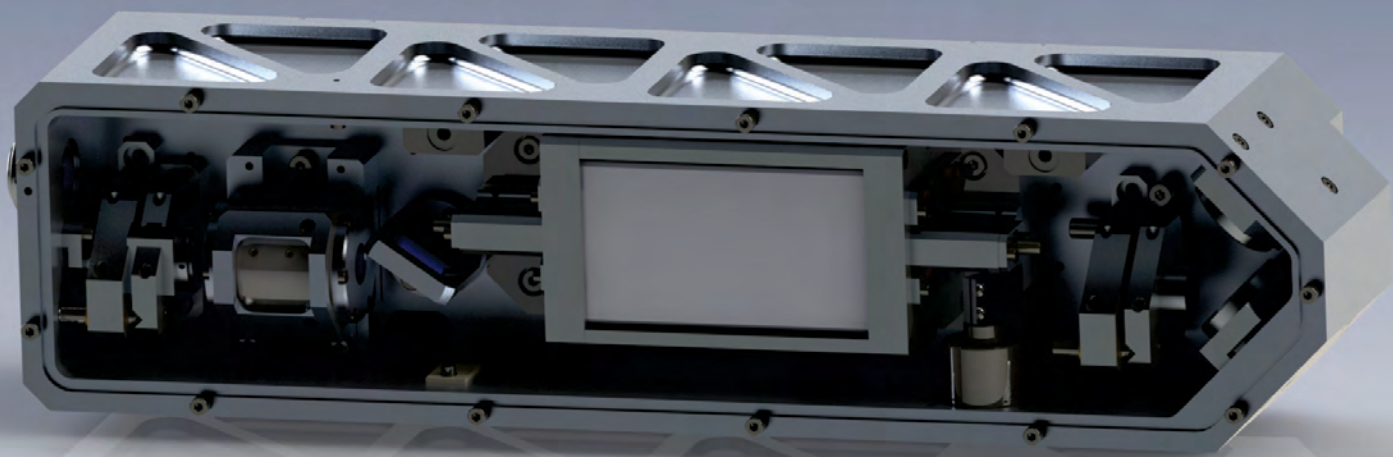


# Flashlamp pumped solid-state lasers for medical and aesthetic applications



Photonics Laboratories

## Handheld lasers

- Long pulse Nd:YAG
- Q-switched Nd:YAG + KTP
- Q-switched Ruby
- Q-switched Alexandrite
- Long pulse Er:YAG + fractional
- Long pulse Er:Glass + fractional
- Long pulse Nd:YAP 1.34um + fractional

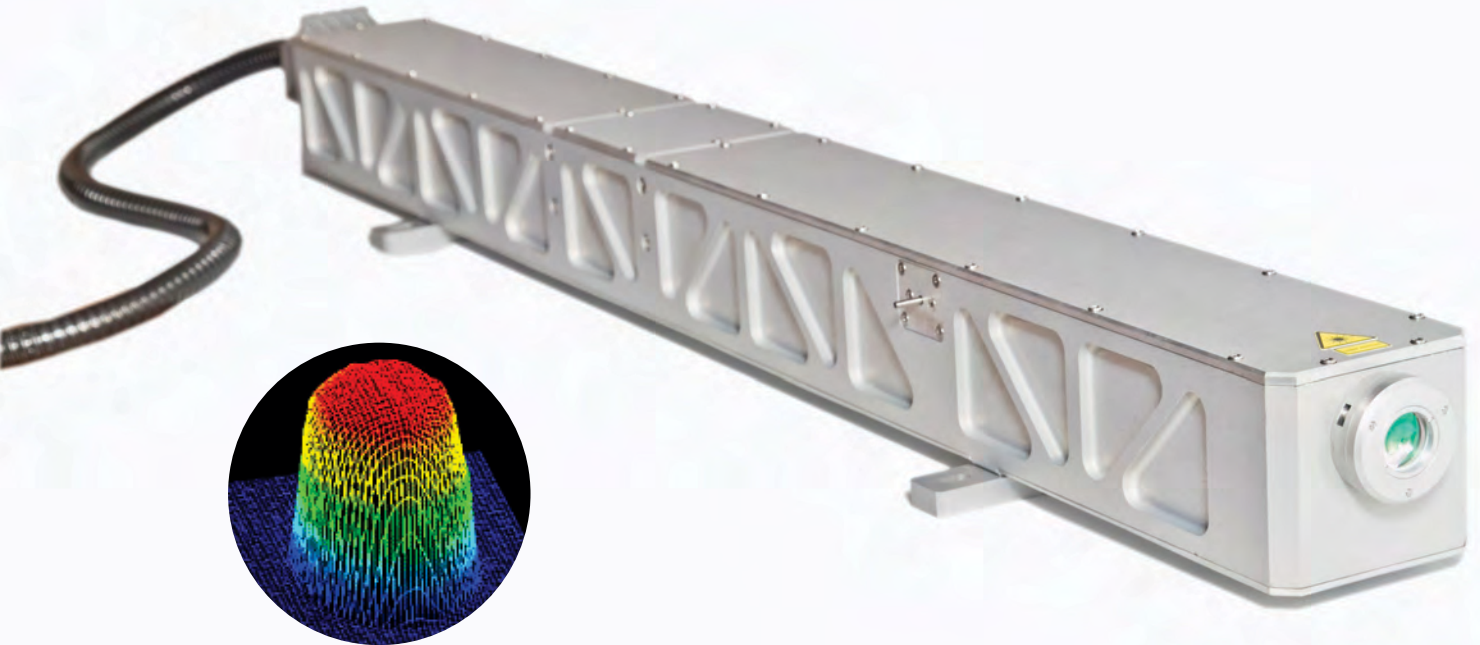
## Embedded lasers w/ articulated arm delivery

- Q-switched Nd:YAG + KTP
- Q-switched Ruby
- Q-switched Alexandrite
- High power Er:YAG

## Embedded lasers w/ fiber delivery

- High power Nd:YAG
- High power Alexandrite
- High power CTH:YAG

# Scientific and industrial lasers



## Flashlamp pumped q-switched Nd:YAG

Oscillator only (up to 500mJ per pulse)  
Oscillator + amplifier (up to 1500mJ per pulse)  
Dual channel lasers for LIBS (up to 300mJ per pulse)  
Optional SHG, THG

## Diode pumped q-switched Nd:YAG

Oscillator only (up to 200mJ per pulse)  
Oscillator + amplifier (up to 400mJ per pulse)  
Optional OPO, SHG, THG

## Flashlamp pumped fiber coupled Nd:YAG

Up to 100J/100W (ideal for spot welding)

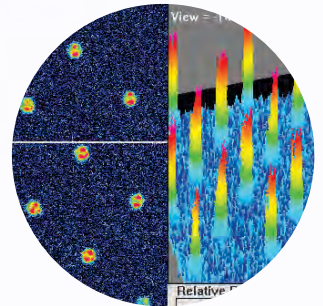
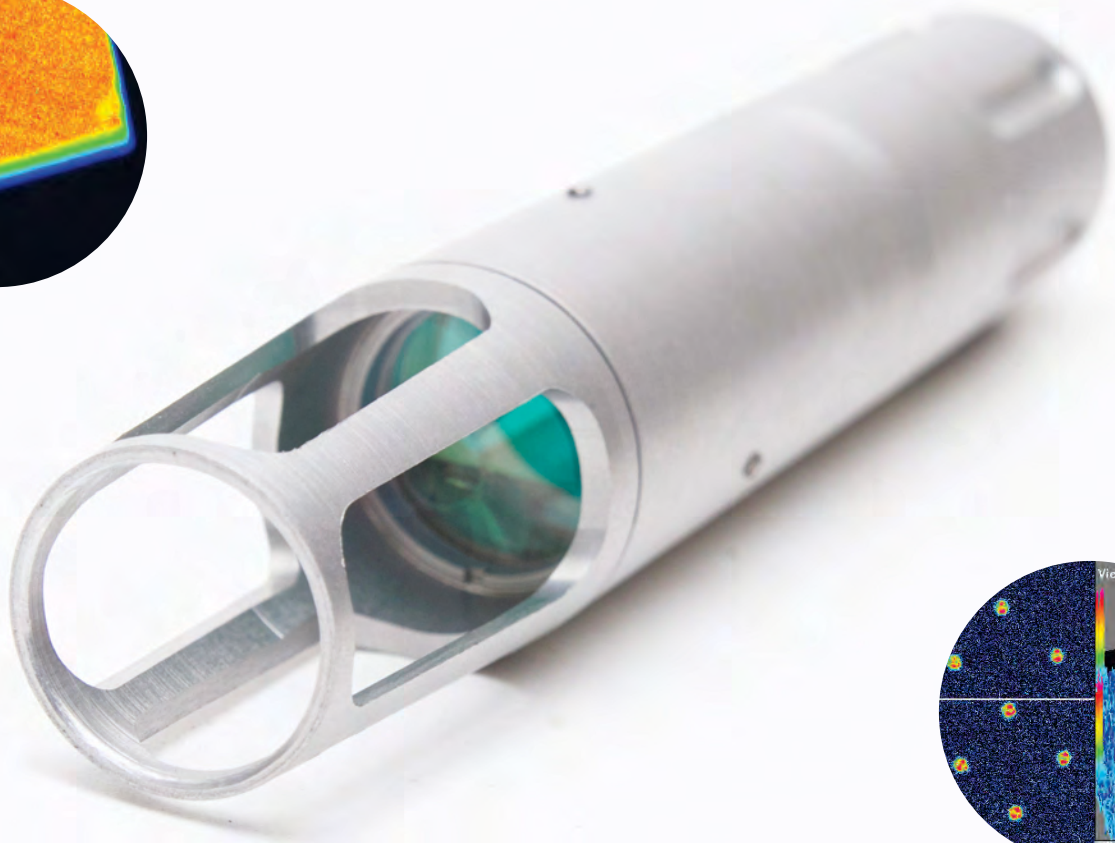
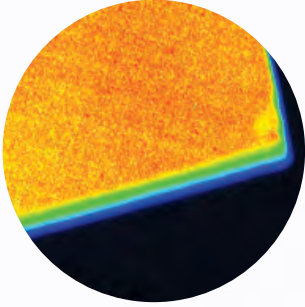
## Flashlamp pumped Alexandrite

Up to 50J/50W

## Flashlamp pumped Er:YAG

Up to 2.5J/25W

# Beam shaping products



Precise focusing and collimating

Beam expansion

Fixed magnification  
Zoom expansion

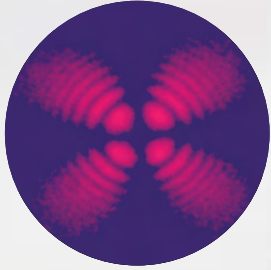
Beam homogenization

Fiber handpieces

Fiber handpieces with round spot  
Fiber handpieces with square spot  
Zoom fiber handpieces with round spot  
Zoom fiber handpieces with square spot  
Optional line, rectangular and hexagonal spot  
Optional fractional patterns

Fractional patterns generation

# Specific and non-standard optical components



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## Metallic mirrors

Flat, elliptic and parabollic mirrors

Copper and aluminium substrate, silver and gold reflective coating, sapphire protective coating

## Microlens arrays

For beam homogenizing purposes, for fractional patterns generation

## Specular reflectors

## Sapphire optics

Windows, lenses, prisms, other products

## DKDP Pockels cells