



GERMANY

EXCELLENCE IN LASER AND MEDIATECHNOLOGY



LightCube Lasersystems
375nm up to 670nm, 10mW up to 30W
Single Diode up to high integrated Systems

*Diode, DPSS and OPSL Lasersystems
unique - reliable - maintenance free*

Diode, OPSL und DPSS Lasersysteme
einzigartig - zuverlässig - wartungsfrei



VULCAN Industrial Laser
Adjustment and Positioning Systems

*from an easy laser-line up to
complex CAD-drawing-projection*

von der einfachen Hilfslinie bis zur komplexen
CAD-Zeichnungsprojektion



OEM - Electronic - Products
Diode Drivers, TEC Coolers, Scann Amplifiers

*Serial products and customized solutions for easy
implementation*

Serienprodukte und kundenspezifische Lösungen zur
einfachen Integration



Components
Mirrors, Filters, Lenses, Achromates, Aspheres

*Precise optical and mechanical
solutions for easy implementation*

Optische und Mechanische Präzisions - Lösungen zur
einfachen Integration



Service
Gas Ion Laser Refill,
Laserservice, Lasersafety-training
Soft & Hardware training

Gas Ionen Laser Refill
Laserservice, Lasersicherheitsschulungen
Soft & Hardware Schulungen

Certified Quality

DIN ISO 9001 : 2008

Coherent
Jenoptik



Awarded

More than 30 national
and international awards
for products, installations
and shows.



Customized developments
are welcome

NEW WEB SHOP

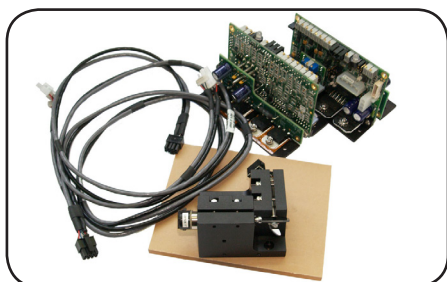
<http://shop.hb-laser.com/>

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APOLLO SUPERMICRO CT 6210

max. scan-angle 80°, 60.000 pps @ 7° scan-angle
2x CT6210HP Scanners
2-axis Apollo SuperMicro Servo Amplifier
with over-temperature sensor and shutter-output
2x Scanner cableset, 50 cm
1x X/Y-Scannermount
3 mm aperture X/Y scanner-mirror-set, broadband visible coating 450 - 670 nm
input-voltage: ± 22 up to ± 30 VDC, 1.5 A



APOLLO PROFESSIONAL CT 6215

max. scan-angle 80°, up to 80.000 pps @ 7° scan-angle
2x CT6215HP Scanners
2x CT671215HHJ-0HP, Servo Amplifiers
2x Scanner cableset, 50 cm
1x X/Y-Scannermount
3; 5; or 8 mm aperture X/Y scanner-mirror-set, broadband visible coating 450 - 670 nm
input-voltage: ± 22 up to ± 48 VDC, 3 A



APOLLO INFINITY

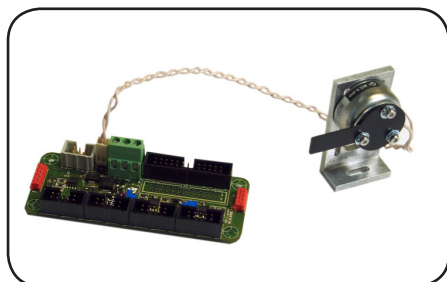
max. scan-angle 60°, up to 60.000 pps @ 7° scan-angle
2 x closed-loop Apollo Infinity galvanometer scanners
2x EMS 4000 Servo Amplifiers
2x Scanner cableset, 50 cm
1x X/Y-Scannermount
3; 5; 8; or 10 mm aperture X/Y scanner-mirror-set
broadband visible coating 450 - 670 nm
input-voltage: ± 22 up to ± 30 VDC, 3 A



APOLLO SERIES SINGLE COMPONENTS

All Components available as single Parts on request

Apollo SuperMicro -X/Y scan-amplifier (2-channel), fast with smallest dimensions for CT-scanner (CT6800 or CT6210), miniaturised (91x55x35 mm) with integrated scanner safety and shutter-output, incl. temperature-sensor and temperature safety-circuit, input-voltage: ± 22 up to ± 30 VDC, 2 A



APOLLO SCAN SAFETY

Ultrafast dynamic Scan-fail safety electronic

detects scan-fails in less then 50 μ sec
with direct access to the laser modulation for 4 color canals
The system regulates dynamical the laserpower compared to the scanspeed.
In case of any fault on the scanner the system has 2 independant safety-circuits:
Switch off modulation in 50 μ s and a mechanical shutter which reacts in 50 ms.
In normal use the system works without influence the projected graphic.

NEW WEB SHOP <http://shop.hb-laser.com/>

SYSTEMS MEDIATECHNOLOGY ENGINEERING SERVICE