



SMALL

RELIABLY

POWERFULL

STABLE BEAMALIGNMENT

**THE MOST POWERFUL 5 WATT**  
WHITELIGHT DIODE LASERSYSTEM  
IN COMPACT DESIGN



## ARC FORTISS

RGB FULL OUTPUT POWER:	> 5,0W	Optional: *6,5W RGB!
PURE WHITELIGHT BALANCE:	typ. 4,0W	with new & powerful
DIMENSIONS/METRICS:	390mm x 212mm x 260mm	2W 445nm diode
SYSTEM WEIGHT:	~ 20kg	World's Premiere 2008!

Completely sealed optical module.  
Dustproof housing.

## INTERNAL LASERBEAMSOURCE

Whitelight balance:	ca.50%: Red 640-642 nm:	1,5W / Arctos diode pattern   <b>NEW</b>
Whitelight balance:	ca.30%: Green 532nm:	3,0W / JENLAS, Jenoptik   <b>NEW</b>
Whitelight balance:	<20%: Blue 445nm to 450nm:	1,0W / Arctos diode pattern
	*Blue 445nm	* 2,0W / Arctos diode pattern   <b>NEW</b>

## BEAM DATA

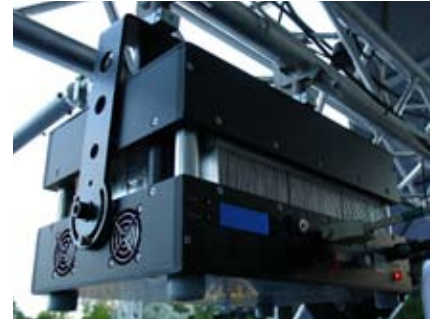
<b>Scanner:</b>	<b>CT6800, 1M0 CT Servoamp, incl. scanner safety</b>
Beam parameters:	<3,0mm; 0,8mrad (full angle) divergence
System power consumption:	110-230VAC@ 1,5KW
Modulation-frequency:	up to 30 kHz analog input: 0-5V
Operating-t°:	<8C° to 30C°; optimal operational t°: 25C°
T°-controlled:	heating and cooling for optimal laser parameters & stability
ILDA Standard:	D-Sub 25p

**Scanner CT 6800 up to 60kpps** depend. on scan-angle and frame. (up to 30kpps@54° full angle)

## Originally integrated @Arctos EXW

:: Power and warm-up time: <5min @27°C ; <30min @10°C

:: Projection distance to display-surface during scanner installation at Arctos/test:1mx1m: @1m distance.



### ALL CLIENT EXPECTATIONS IN ONE UNIT

**:: Stable RGB alignment**

- :: Guaranteed safety for laser sources and laser software controllers!
- :: Miniaturization of high laser power in compact size instead of past 50kg now: **only 20kg**

- :: Active diode-safety against potential differences/  
protection against any voltage problems in net etc.

- :: Long lifetime, high diode-source reliability
- :: Low divergence, high laserpower density

- :: Scanner - safety control system incl. net-filters/  
t° and ground-lift input of all ILDA signals

- :: CE/UL standard, conform

- :: **Patent Pending**

### PINOUT Standard ILDA 25 Sub-D in/out & Connector

Signal Name	Pin	Notes
X +	1	+ 5V
X -	14	- 5V
Y +	2	+ 5V
Y -	15	- 5V
Red +	5	+ 2,5V
- Red -	18	- 2,5V
- Green +	6	+ 2,5V
- Green -	19	- 2,5V
- Blue +	7	+ 2,5V
- Blue -	20	- 2,5V
- Shutter	13	+ 5V
- Ground	25	Cable shield



### ARCTOS QUALITY STANDARDS SUMMARY

- :: Completely air cooled & sealed
- :: t°-control/intelligent-automatized
- :: Low power requirements, silent
- :: High whitelight balance, brilliant colours
- :: 100% diode pattern stability, patent pending
- :: High-end optics & engineering design
- :: LCD system - status display
- :: Original for ARC-Series: Electric Mainboard
- :: CE/UL conform CDRH Variance

### IMPORTANT NOTICE

- :: This is a high-tech laser equipment!  
Be careful of mechanical shocks avoid exposure to high or low temperatures / sun / t° over 45°, avoid condensation  
System shut down at overtemperature
- :: From 25C° additional air-condition necessary, depending on the operational-time and outside t° or room t°
- :: 25-Pol ILDA cable connector: ensure the 25-Pol connector is slaved 1 : 1 every Pin.  
Max cable length: 100m (with ground-shield)
- :: Avoid any static-electrical power during the installation of the laser-software.  
Ensure the AC power input from the computer is equal with the laser system.
- :: After "switch on" the laser system, please wait > than 1 minute.  
Warm-up time: 0 up to 10 minutes. (depend. on the air-temperature).
- :: Avoid any electric potential differences between the laser (with/without yoke) and the truss.  
Please ensure: the laser is operated as delivered: with rubber feet. (reduce "buzz"-factor)
- :: **System warranty: 5000h or 12 month (what appears first)**  
**CT Scanners are not subject of warranty\*. Scanners ARC-integrated: original and calibrated.**  
**The removal or breaking of the seals immediately makes the warranty void.**  
**Please take notice of the national assignations and regulations in your country.**

\* We can't control your framesize, independent of scan speed