

**ARC – PIONEER 2 000**  
**Whitelight Diode Lasersystem**  
**Output: 2,0W RGB / whitelight balance: <=2,0W**



**Internal RGB-Laser beamsources:**

whitelight balance: ca.50%: Red 650nm or 640nm: >1,0W / Arctos diode pattern  
whitelight balance: ca.30%: Green 532nm: >0,5W / DPSS selected  
whitelight balance: <20%: Blue 445nm to 450nm: 0,3W / Arctos diode pattern

**Scanner: CT6800 or CT6215, M01 CT Servoamp, incl. scanner safety**

Beam parameters: 3,5mm; 0,8mrad  
System power consumption: 110-230VAC@<300W  
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  
Completely sealed optical module. Dustproof housing.  
Dimensions/Metrics (mm): **390 x 180 x 260** (without yoke: see/accessories)  
System weight: < 20kg  
DMX/Flashback available on request. (FB3 Series)

**ASK FOR MORE LASER-POWER in 2W HOUSING: optional from April/2008!**

**PINOUT:**

| 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 |

**Important Notice:**

- This is a high-tech laser equipment. Be careful of mechanical shocks; avoid exposure to high or low temperatures, sun or t° over 35° Celsius.
- From 25C° additional air-condition necessary, depending on the operational-time and outside t° or room t°.
- 25-Pol 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: 1 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)

**Scanner CT 6800:** up to 60kpps; depend. on scan-angle and frame. (30kpps@ 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; 1min.

**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;
- :: only selected beam sources;
- :: high-end optics & engineering design;
- :: LCD safety control 100%
- :: Original for ARC-Series: Electric Mainboard
- :: CE/UL conform. CDRH Variance.

:: 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 assignments and regulations in your country.

Laser Status: Patent Pending / 20 2005 009 294.0  
 Laser Status: Patent Pending / 20 2005 003 856.3  
 Laser Status: Patent Pending / 20 2004 013 003.3  
 Laser Status: Patent Pending / 20 2004 021 111.4