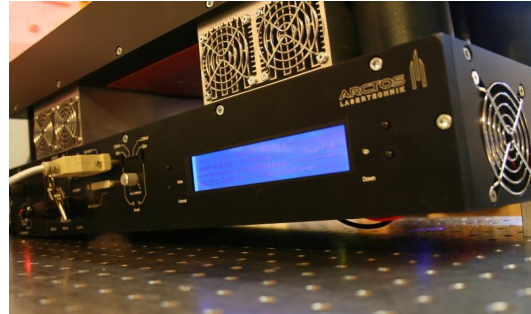


**ARC – ESSENTIAL 30 000**  
**Whitelight Diode Lasersystem**  
**Output: >31W RGB / whitelight balance: >30W**



**Internal RGB-Laser beamsources:**

whitelight balance: ca.50%: Red 650nm or 640nm: 7,2W / Arctos diode pattern  
 whitelight balance: ca.30%: Green 532nm: 16,0W Jenlas Jenoptic  
 whitelight balance: <20%: Blue 445nm to 450nm: 8,0W / Arctos diode pattern

**Scanner/Choice of: CT 6810, G120D, CT6215 M01 CT Servoamp, incl. safety.**

Beam parameters: ~5,0mm; 1,0mrad @full angle  
 System power consumption: 110-265VAC@<1,7kW  
 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): 750 x 420 x 300  
 System weight: < 90kg

**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/Customer choice of: CT 6810, G120D, CT6215. On individual request.**

**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