



## RTI - NANO RGB 13 - full color laser

The RTI-Nano RGB13 is a compact laser system in a sealed cabinet.

The driver, thermal management, high speed X/Y-Galvanometer and Controller are integrated to make it a real turnkey-product.

The wavelength is kept stable by exact temperature controlling with high accuracy. All parameters can be adjusted by an "easy to use" touchscreen menu. A fiber coupling adapter is optionally available for all lasers of the Nano series.

All laser modules are built for long lifetime and high stability. Even in harsh environment they remain maintenance free.

Low noise and low heat dissipation make them an easily integratable laser source for high quality applications.

Safety circuits like failure detection, over current protection and an external interlock are standard.

### Applications:

- Measurement devices
- industrial sensing
- research
- medical
- ext. distance light barriers
- print exposure

### Approvals:

EN 60825-1  
EN 60825-2  
EN 60950  
EN 60529:1991



"easy to use"  
Touchscreen

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## Technical Specifications

<b>Control and Programming</b>	
Control options	DMX, ILDA, PC software (supplied) stand alone autostart mode
Resolution x and y	16-bit
Resolution RGB intensity	8-bit
DMX address setting	onboard control panel with backlit LCD Display
Stand alone programming	PC software
Protocol	USITT DMX512-A
<b>Laser</b>	
Class	4
Type	diode Laser, cw emission
P Lambda 440nm-660nm	Max. 25 W cw
White light output	10 W
Maximum output	13 W
Beam divergence	0,8 mrad
Beam diameter	3,2 mm
Wavelength red	640 nm
Wavelength blue	460 nm
Wavelength green	530 nm
<b>Projector</b>	
Horizontal projection angle	80°
Vertical projection angle	80°
SASRT (step response time)	0,3 ms
<b>Connections</b>	
AC power input	3-pin IEC male socket, cable supplied
Analog (ILDA) in/out	25-pin sub-D
DMX data in/out	5-pin locking XLR
Programming and uploads	USB 2.0
<b>Electrical</b>	
AC power input	100-240 V nominal, 50/60 Hz
Power supply unit	auto ranging electronic switch-mode
Main Fuse	6.3 AT
<b>Thermal</b>	
Max. ambient temperature	40°C
IP ratio	65
Min. ambient temperature	5°C - non-condensing
Cooling	Forced air (temperature-regulated, low noise)
<b>Acoustic</b>	
Sound pressure level	<45 dbA at 1 m
<b>Dimensions</b>	
Housing	Aluminium
Finish	Black anodized
Height x width x depth	196 x 320 x 458 mm
Total Weight	25 kg

System manufactured in Germany