



# Display Laser Systems

Ray Technologies GmbH, RTI, is a high end laser technology company with its core activities in research, development and proto-typing of specific laser applications and equipment in a wide range of industries, including medical, space and event business.

A strong technical team of optical, IT and tool making experts enables RTI to invent, develop and actually build new products according to highest international standards in the best tradition of German technical craftsmanship.

Cooperations with reputable R&D institutions, the German TUEV technical surveillance organisation or universities and HITECH enterprises

alike is providing a fertile background for continued progress and penetration into ever new fields of applications, such as holographs, lightsensors or cancer treatment to name just a few.

RTI is official integrator of COHERENT Taipan OPSL laser modules and has huge experience in manufacturing high performance laser projection systems. The implementation of RTI-developed and manufactured drivers for COHERENT Taipan systems results in most accurate beam quality, beam stability and brightness.

RTI is a subsidiary of Laserworld (Switzerland) AG.



Certified Coherent Taipan integrator



**COHERENT®**  
**TAIPAN**

[www.raytechnologies.com](http://www.raytechnologies.com)

The RTI **PIKO** is a very compact laser system in a sealed housing. This is one of the smallest available laser system worldwide at a cube of only 25 cm.

**PIKO** is available with an incredible power of up to 4W - full color RGB - or as single color setup with up to 24W power!

Imagine to just take your whole show equipment of e.g. four projectors in your suitcase with you when travelling! Not only is this tiny little unit extremely powerful, but it is also completely sealed at IP54!

The **PIKO** units can easily be configured through the versatile, detachable remote control pad: You can completely adapt the basic settings of the whole system.

Standard control of the **PIKO** units is through ILDA interface, but of course even our very small units can be operated through LAN, DMX, SD-card or Auto mode as well. Even W-DMX™ is available on request.

All single color **PIKO** are equipped with **Coherent OPSSL Taipan modules!**



	output power	red [ 640nm ]	yellow [ 577nm ]	green [ 532/530nm ]	cyan [ 488nm ]	blue [ 445nm ]
<b>PIKO RGB 2.5</b>	2.0 - 2.5W	550mW	-	800mW	-	650mW
<b>PIKO RGB 4</b>	3.2 - 4.0W	1.000mW	-	1.200mW	-	1.000mW
<b>PIKO Y7</b>	5.0 - 7.0W	-	>5.000mW	-	-	-
<b>PIKO C7</b>	5.0 - 7.0W	-	-	-	>5.000mW	-
<b>PIKO G4</b>	3.0 - 4.0W	-	-	>3.000mW	-	-
<b>PIKO G7</b>	5.0 - 7.0W	-	-	>5.000mW	-	-
<b>PIKO G10</b>	8.0 - 10.0W	-	-	>8.000mW	-	-
<b>PIKO G12</b>	10.0 - 12.0W	-	-	>10.000mW	-	-
<b>PIKO G24</b>	20.0 - 24.0W	-	-	>20.000mW	-	-



Select your own additional control options:



PANGOLIN or PHOENIX card available!  
Please choose on purchase.

laser source	Diode Modules, Green DPSS Laser; Coherent OPSSL Taipan	laser class	4
beam specs	ca. 2.8mm / 1.0mrad	power supp	85-250V AC 50/60Hz
op. modes	ILDA; optional DMX, Auto, LAN, SD-card	power cons	300W
scanners	CT-6210 SE 90kpps@4°, 60kpps@8°	dimensions	250/250/250 mm
scan angle	80° max.	weight	13 kg
accessories	Detachable Remote Control Pad		
optional	W-DMX; PeliCase		

# NANO RGB Series

The **NANO** RGB laser projectors are equipped with state-of-the-art high end diode modules. This special type of modules provides brilliant colors and great color mixtures. Beam accuracy and beam shape is extremely advanced, so these units are suitable for high professional applications. The compact built laser systems are waterproof IP65 and very durable.

With their super fast 90 kpps CT scanners these units are suitable for really every possible event. Special optical collimators guarantee a perfect sharp beam with very low divergence. Great quality even at long distance projections!

The **NANO** RGB projectors are standard equipped with ILDA interface, but can also be operated through LAN, DMX, SD-card or in Auto mode if control option is ordered. W-DMX™ is available on request as well.

Projector settings can easily be adjusted through the versatile remote touch control pad (can be attached to the projector as well!)



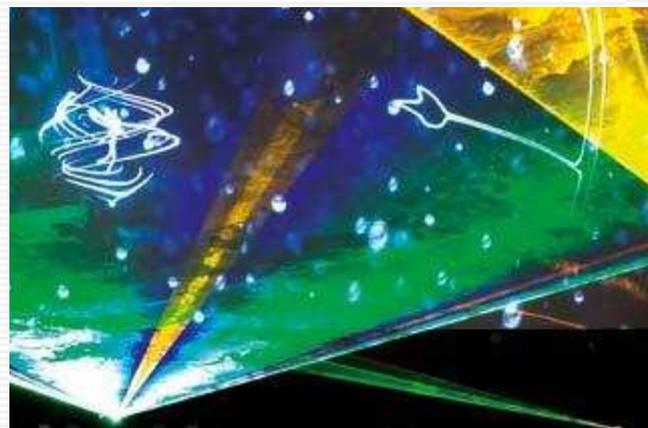
Select your own additional control options:



PANGOLIN or PHOENIX card available!  
Please choose on purchase.

	output power	red [ 640nm ]	green [ 530nm ]	blue [ 445nm ]
<b>NANO RGB 9</b>	7.0 - 9.0W	>1.000mW	>5.000mW	>1.000mW
<b>NANO RGB 15</b>	12.0 - 14.9W	>2.000mW	>8.000mW	>2.000mW
<b>NANO RGB 22</b>	19.0 - 22.0W	>4.500mW	>10.000mW	>4.500mW

laser source	Diode Modules, Green OPSL Coherent Taipan	laser class	4
beam specs	ca. 2.8mm / 1.0mrad	power supp	85-250V AC 50/60Hz
op. modes	ILDA; optional Auto, DMX, LAN, SD-card	power cons	540W/720W/900W
scanners	CT-6210 SE 90kpps@4°, 60kpps@8°	dimensions	431x205x385 mm
scan angle	80° max.	weight	27 kg
accessories	Detachable Remote Control Pad, PeliCase		
optional	W-DMX		



# NANO AT Series

The RTI **NANO** AT is a compact laser system in a sealed and waterproof housing. It is the first choice for many high end applications worldwide - in entertainment as well as in advertisement and installation business.

The **NANO** AT products provide a highly accurate beam: Equipped with high end Coherent Taipan laser modules, the units have an excellent beam shape, color balance and divergence. With the super fast 90 kpps CT scanners, these units are suitable for really every possible event. Colors and color balance are kept stable by exact and highly accurate temperature control. This makes the units perfect for high end applications.

The **NANO** AT Series units are standard equipped with ILDA interface, but can also be operated through LAN, DMX, SD-card or in Auto mode if control option is ordered. W-DMX™ is available on request as well.



Select your own additional control options:



PANGOLIN or PHOENIX card available!  
Please choose on purchase.



Every possible combination of OPSL Coherent Taipan and/or diode module systems is available on request!

	output power	red [ 639nm ]	yellow [ 577nm ]	green [ 530nm ]	cyan [ 488nm ]	blue [ 460nm ]
<b>NANO 3 RGB 7</b>	5.0 - 7.0W	>1.500mW	-	>2.000mW	-	>1.500mW
<b>NANO 3 RGB 12</b>	9.5 - 12.0W	>2.500mW	-	>5.000mW	-	>2.000mW
<b>NANO 4 RYGB 22</b>	17.5 - 22.0W	>2.500mW	>5.000mW	>8.000mW	-	>2.000mW
<b>NANO 6 RRYGCB 35</b>	28.0 - 34.5W	>5.000mW	>6.000mW	>10.000mW	>5.000mW	>2.000mW
<b>NANO 8 RRYGGCBB 45</b>	36.0 - 45.0W	>5.000mW	>6.000mW	>16.000mW	>5.000mW	>4.000mW
<b>NANO 10 RRRYYGGCCBB 60</b>	48.5 - 59.5W	>7.500mW	>12.000mW	>20.000mW	>5.000mW	>4.000mW



laser source	Coherent Taipan OPSL		
beam specs	ca. 2.8mm / 0.9mrad	scan angle	80° max.
op. modes	ILDA; optional Auto, DMX, LAN, SD-card	scanners	CT-6210 SE 90kpps@4°, 60kpps@8°
laser class	4	power supp	85-250V AC 50/60Hz
hardware	Nano3: 431x205x385 mm; 27kg; max. 600W Nano4: 431x205x385 mm; 29kg; max. 720W Nano6: 531x205x385 mm; 32kg; max. 1000W Nano8: 631x205x385 mm; 36kg; max. 1440W Nano10: 773/204/385 mm; 42kg; max. 1600W		
accessories	Detachable Remote Control Pad, PeliCase		
optional	W-DMX		

# NANO Rainbow

The **NANO** Rainbow units are specially designed for applications, where the color brightness and brilliance is essential. Due to the different diodes in a wide wavelength spread these units are able to project a perfect color spectrum in excellent smoothness. The compact built laser systems are waterproof IP65.

These models are especially designed for long lifetime, high stability and accuracy: The **NANO** Rainbow units are highly accurate in their beam, as they are equipped with high end Coherent Taipan lasers combined with the diode modules used in the NANO RGB.

With their super fast 90 kpps CT scanners these units are suitable for really every possible event. Colors and color balance are kept stable by exact and highly accurate temperature control. This makes the units perfect for high end applications.

The **NANO** Rainbow projectors are standard equipped with ILDA interface, but can also be operated through LAN, DMX, SD-card or in Auto mode if control option is ordered. W-DMX™ is available on request as well.

Projector settings can easily be adjusted through the versatile remote touch control pad (can be attached to the projector as well!)



Select your own additional control options:



PANGOLIN or PHOENIX card available!  
Please choose on purchase.

<b>NANO</b>	<b>output power</b>	<b>red</b> [ 640nm ]	<b>yellow</b> [ 577nm ]	<b>green</b> [ 530nm ]	<b>cyan</b> [ 488nm ]	<b>blue</b> [ 445nm ]
<b>Rainbow 27</b>	23.0 - 26.5W	>4.500mW	>5.000mW	>8.000mW	-	>4.500mW
<b>Rainbow 36</b>	33.5 - 36.0W	>4.500mW	>6.000mW	>10.000mW	>5.000mW	>4.500mW

laser source	Diode Modules, Coherent Taipan OPSL	laser class	4
beam specs	ca. 2.8mm / 1.0mrad	power supp	85-250V AC 50/60Hz
op. modes	ILDA; optional Auto, DMX, LAN, SD-card	power cons	max. 1180W
scanners	CT-6210 SE 90kpps@4°, 60kpps@8°	dimensions	773/204/385 mm
scan angle	80° max.	weight	42 kg
accessories	Detachable Remote Control Pad, PeliCase		
optional	W-DMX		



# IMPRESSION

## laser moving head

The **IMPRESSION** laser moving heads are not only built extremely small, but are also extremely powerful: Up to 3.5 W perfect white

balanced laser power with a scan angle of 80° make these systems unique in the whole market. Although the whole system is very compact, it has a multitude of versatile extra features: It can be operated through DMX, SD-card (ILDA format) or can be run in auto mode.

The built-in control display provides several setting options to pre-configure the system.

**IMPRESSION** laser moving heads seamlessly integrate in existing lighting structures and can be easily operated through every standard DMX512 control system.

With its extremely fast head movement (even in high resolution), the **IMPRESSION** laser moving heads can also be combined with other state of the art, high professional lighting equipment.



### Head specifications:

Resolution: 8bit or 16bit (selectable)  
Pan: 660° in 2 seconds  
Tilt: 300° in 1 second  
position feedback



	output power	red [ 640nm ]	green [ 532nm ]	blue [ 445nm ]
<b>IMPRESSION RGB 3.5</b>	2.8 - 3.5W	>1.000mW	>1.000mW	>800mW



laser source	Diode Modules, Green DPSS Laser	laser class	4
beam specs	ca. 2.8mm / 1.0mrad	power supp	85-250V AC 50/60Hz
op. modes	Auto, DMX, SD-card	power cons	300W
scanners	CT-6210 SE 90kpps@4°, 60kpps@8°	dimensions	370x340x145 mm
scan angle	80° max.	weight	ca. 7 kg