

RTI PIKO

LASER PROJECTORS

EDITED: 2024-04

LaserAnimation
SOLLINGER



The RTI PIKO projectors are completely manufactured in Germany and they are basing on unique red, green and blue RTI RSL laser modules, manufactured by LaserAnimation. Depending on the model some projectors are equipped with green, yellow or orange Coherent Genesis TAIPAN OPSL modules for even better visibility. The RSL modules with their very low divergence and a homogeneous beam shape make the RTI PIKOs highly professional laser systems. The small beam diameter enables the use of small scanner mirrors with less inertia, which enables high scanning speeds. CT-6210 scanners with LAS Turboscan XD drivers are optionally available for most devices, enabling even higher scanning speeds of up to 60kpps ILDA 8° (max. 60°).

The intelligent LaserAnimation Sollinger Mainboard is integrated into the laser projector, which provides the laser operator with a variety of control and setting options (e.g. the LA.toolbox) or transmission options (such as AVB). Together with the ShowNET laser mainboard, which is also integrated, ILDA, LAN (software), DMX and ArtNET control, ILDA streaming, stand-alone operation, among others, are available, ensuring the highest possible flexibility.

Control signals can be looped through directly via the network switch, which is also integrated.

The RTI PIKO lasers are suitable for indoor and outdoor applications, e.g. at concerts, festivals and other major events. Demanding graphic projections and projections over long distances are no problem for these devices thanks to the low divergence.



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Control Modes

AVB / TSN interface for data streaming via Ethernet, AIFF player function, stand-alone player, ILDA, DMX / ArtNET, control software "LA.toolbox" for PC or Mac included, LAN (software) with ShowNET DAC (depending on model)

Typical wavelengths:

637 nm | 577 nm / 590 nm | 525 nm | 455 nm

Type

CW analog modulated

Beam Diameter*

5 mm (PIKO 33 | PIKO 38 | PIKO 42 ROGB | PIKO 45 RYGB)

8 mm (PIKO 46) | 10 mm (PIKO 65 | PIKO 80 | PIKO 50 G)

Beam Divergence*

< 0.7 mrad (PIKO 42 ROGB | PIKO 45 RYGB)

< 0.8 mrad (PIKO 33 | PIKO 38 | PIKO 46 | PIKO 65 | PIKO 80)

< 0.9 mrad (PIKO 50 G)

Scanner

45 kpps ILDA 8°, max. 50°

optional: CT-6210 with LAS TurboScan digital: 60 kpps ILDA 8°; max. 60°

38 kpps ILDA 8°, 28 kpps @ max. 48° (PIKO 46 | PIKO 65 | PIKO 80)

38 kpps ILDA 8°, 25 kpps @ max. 48° (PIKO 50 G)

Weight

ca. 27 kg (PIKO 33) | ca. 34.5 kg (PIKO 38) | ca. 36 kg (PIKO 46) | ca. 37 kg

(PIKO 50 G) | ca. 39 kg (PIKO 42 ROGB | PIKO 45 RYGB | PIKO 65 | PIKO 80)

Dimensions

L 49,1 cm x W 27,1 cm x H 29,6 cm

IP Rating

IP54



CAUTION - CLASS 4 LASER
RADIATION WHEN OPEN
AVOID EYE OR SKIN EXPOSURE TO
DIRECT OR SCATTERED RADIATION

LASER RADIATION
AVOID EYE OR SKIN
EXPOSURE TO DIRECT
OR INDIRECT RADIATION
CLASS 4 LASER PRODUCT
DIN EN 60826-1:2015-07

Thermal

Operating temperature: 5°C - 45°C

Operating temperature: max. 35°C (PIKO 65 | PIKO 80 | PIKO 50 G)

Electrical Input

Universal input: 86 VAC - 264 VAC, 47 - 63 Hz

Power consumption: 900 W - 2500 W (depending on model)

Laser Safety

- Electronic mask to define protected areas in a laser projection using controlling software
- Scanfail safety circuit
- Key switch, Interlock, Emission LED, Status LED

Standardized Connectors

- AC Mains Connector: Neutrik PowerCon TRUE1
- Projector Signal, analog: ILDA In D-sub 25, differential inputs
- Remote: 7pin XLR (external key switch, interlock)
- DMX In / Thru
- LAN

Properties

- RTI RSL Laser Module Technology for a very good beam profile in all colors. Green, yellow or orange Genesis TAIWAN OPSSL module made by Coherent (depending on model)
- Integrated intelligent LaserAnimation Sollinger Mainboard
- Control via "LA.toolbox" software (color correction, laser disable). Software included in delivery
- AVB interface for streaming data via Ethernet
- LAN control through integrated ShowNET, FB4 integration optionally possible
- LAS motorized dichroic filters optionally available
- Replacement of the standard integrated 525 nm green with 10 W 532 nm OPSSL optionally possible (depending on model)
- Incl. waterproof flightcase and rain cover (IP54 rated)

*FWHM average depending on model

Laser Projector	Guaranteed output power	Red Module (637 nm)	Yellow / Orange Taipan OPSSL (577 nm / 590 nm)	Green Module (525 nm)	Blue Module (455 nm)
PIKO 33	35 W	8 W	-	13 W	20 W
PIKO 38	38 W	8.5 W	-	15 W	20 W
PIKO 46	46 W	16 W	-	16 W	24 W
PIKO 65	65 W	24 W	-	22 W	30 W
PIKO 80	80 W	17 W	-	32 W	45 W
PIKO 42 ROGB	42 W	8 W	5 W (590 nm)	15 W	22 W
PIKO 45 RYGB	45 W	8.5 W	6 W (577 nm)	15 W	24 W
PIKO 50 G	50 W	-	-	60 W	-