

RTI NEO S12

LASER PROJECTOR

LaserAnimation
SOLLINGER



The **RTI NEO S12** laser projectors are white light RGB beam arrays with analog modulation and six beam outlets. Each outlet has its own XY scanner set with 45 kpps at 8° ILDA.

In addition to the single beam, the RTI NEO S12 offers more than 100 standard pre-set patterns (stored on SD card via ShowNET), which can be displayed by all six laser outlets or selected individually.

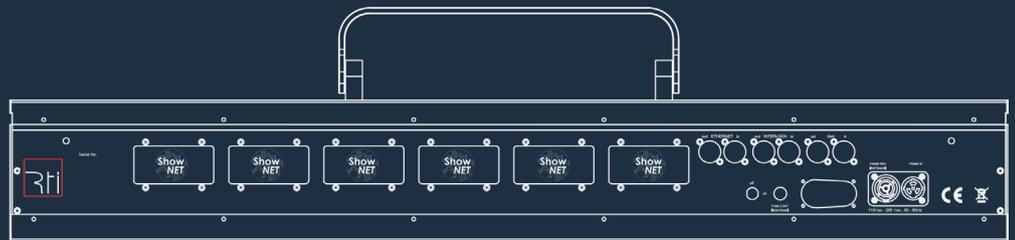
The RTI NEO S12 lasers can be controlled through DMX and ArtNet, as well as directly through various computer software programs, such as Showeditor, Showcontroller, TouchDesigner, or MadMapper/MadLaser, thanks to the internal ShowNET hardware. It is possible to create different chaser, beam and fan laser light effects and to integrate the projectors into existing lighting setups.

These devices are excellent for enhancing visual effects on stages, live gigs, nightclubs, show productions, and any event that requires a unique visual enhancement.

Compared to previous laser projectors in the RTI NEO Series, the RTI NEO S12 offers the user additional control options with the integrated ShowNET professional laser mainboards:

Automatic mode:

This mode allows for playback of internal animations and patterns. Over 100 pre-made patterns are saved on an SD card and can be triggered automatically to either run consecutively or as single file loop.



Technical drawing of the rear side of the device

Professional DMX & ArtNet:

It is possible to switch between two different DMX modes, using 19 channels or 34 channels per ShowNET. In DMX or ArtNet mode, the patterns saved on the SD card can be triggered. The patterns on the SD card can be modified and new content (.ILD files) can be uploaded. The upload is done via the Admin Tool software. **Projection and safety zones can be easily set using just a DMX / ArtNet / lighting controller or the Admin Tool.** These zones are then stored inside the ShowNET mainboard for safe operation.

No additional computer or license is required for these settings.

Computer control:

The ShowNET mainboard integrated in the RTI NEO S12 allows direct control via LAN, i.e. various software programs can be used to control this laser projector directly. The software programs include

- MadMapper/MadLaser
- TouchDesigner
- Millumin
- Showcontroller
- Showeditor

This feature is also a great advantage in terms of distributed scanning across the 6 laser outputs for enhanced graphics display.



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Control Modes

DMX, ArtNet, Automatic, Single File Playback, direct computer software control

Typical wavelengths:

638 nm | 520 nm | 450 nm

Type

CW analog modulated

Beam Diameter*

5 mm

Beam Divergence*

0.9 mrad

Scanner

45 kpps ILDA 8°, max. 45°

Weight

17.5 kg

Dimensions

L 100 cm x W 22,5 cm x H 15 cm

IP Rating

IP5X

Electrical Input

Power consumption: 500 W

Laser Safety

- Scanfail safety circuit
- Key switch, Interlock, Emission LED

Standardized Connectors

- AC Mains Connector: PowerCon TRUE1 type
- Interlock & LAN control: RJ45 connector
- DMX In / Thru

Properties

- Can easily be integrated into an existing lighting setup
- Integrated ShowNET intelligent laser mainboards per outlet
- Professional DMX with customizable patterns
- Setting up projection and safety zones via DMX / ArtNet / lighting controller and storing them on the ShowNET mainboard for safe operation
- Distributed scanning across the 6 laser outlets (software depending)
- Direct control via LAN by various software programs like MadMapper/MadLaser, TouchDesigner, Millumin, Showcontroller, Showeditor, etc.
- 6 x X/Y scanners at 45 kpps @ 8° ILDA
- Laser class: class 4 laser product DIN EN 60825-1: 2015-07

*FWHM average

LASER RADIATION
AVOID EYE OR SKIN
EXPOSURE TO DIRECT
OR INDIRECT RADIATION
CLASS 4 LASER PRODUCT
DIN EN 60825-1:2015-07



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

Laser Projector	Guaranteed output power	Red Module (638 nm)	Green Module (520 nm)	Blue Module (450 nm)
RTI NEO S12	12 W	6 x 600 mW	6 x 500 mW	6 x 900 mW

