



Artistic Licence



nanoScope tx

User Guide



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Overview

nanoScope tx is a battery powered DMX512 transmitter, designed for test, configuration and fault-finding of lighting rigs. The only user control is a three-way switch on the rear face of the product. In the centre position, nanoScope tx is switched off and the internal batteries are disconnected. Switching to the left (viewed from the rear of the product) causes the product to cycle through six DMX512 profiles; nanoScope tx lights up in a different sequence of colours to signify each one. Switching the button to the right locks the output to the most recently played DMX512 profile. The chosen profile is remembered when the product is switched off.

Connections

nanoScope tx connects via an inbuilt 5-pin XLR. Pins 4 & 5 are not connected.

Power







nanoScope tx is powered by two AAA batteries. Access to the battery chamber is gained by removing the two screws and gently slipping the module out of the case. Continuous operation of around 5 days is achieved using good quality batteries. When in profile cycle mode, nanoScope tx goes into low power stand-by after 15 minutes. It is advisable to remove the batteries if the product is not being used for a long period. If the product strobos when switched on, this means that the batteries are depleted and need changing.

Output timing

The DMX512 output of nanoScope tx uses medium speed timing in order to be compatible with the widest range of products. Timing parameters are:

- Break = 330µS MaB = 70µS Inter-Slot time = 66µS

DMX512 profiles

DMX profile	Summary	Colour code	Repeats in loop	Description
1	Fade All	Grey - W 	1	All channels fade from zero to full and then back to zero. The value of the channel changes by one for each DMX frame. All channels in the DMX frame will have the same value. This flavour is useful when comparing multiple lamp dimmer curves and response times.
2	Alternate	RG 	10	A 'rig check' that alternates across two consecutive channels. Each step lasts for 10 DMX frames.
3	Rig Ch 6	RGB 	5	A 'rig check' that cycles across six consecutive channels. This flavour is useful for testing RGB fixtures. Each step lasts for 10 DMX frames.
4	Rig Ch 8	RGBW 	5	A 'rig check' that cycles across eight consecutive channels. This flavour is useful for testing RGBW fixtures and theatre spot bars (pipes). Each step lasts for 10 DMX frames.
5	Rig Ch 512	YYYY 	1	A 'rig check' that cycles across all consecutive channels. This flavour is useful for exercising the rig and also checking the patch. Each step lasts for 2 DMX frames.
6	Ramp all	WWWW 	1	All channels fade from zero to full and then hold. The value of the channel changes by one for each DMX frame. All channels in the DMX frame will have the same value. This flavour is useful when comparing multiple lamp dimmer curves and response times.

CE Compliance



nanoScope tx is CE compliant

Warranty

All products are covered from date of purchase by a two-year return to base warranty.

By return to base, we mean that the customer is responsible for all costs of transport to and from Artistic Licence.

Returns will not be accepted without prior authorisation. In order to discuss a request to return goods, please email:

Sales@ArtisticLicence.com

Compliance

All Products manufactured or sold by Artistic Licence Engineering Ltd are fully compliant with the appropriate CE, FCC, and RoHS regulations. Product specific information is available on request.

Waste Electrical & Electronic Equipment (WEEE)

Artistic Licence is a member of a WEEE compliance scheme and will happily recycle any of our products that you, at your expense, return to us.



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Due to our policy of continuing product improvement specifications are subject to change without notice

