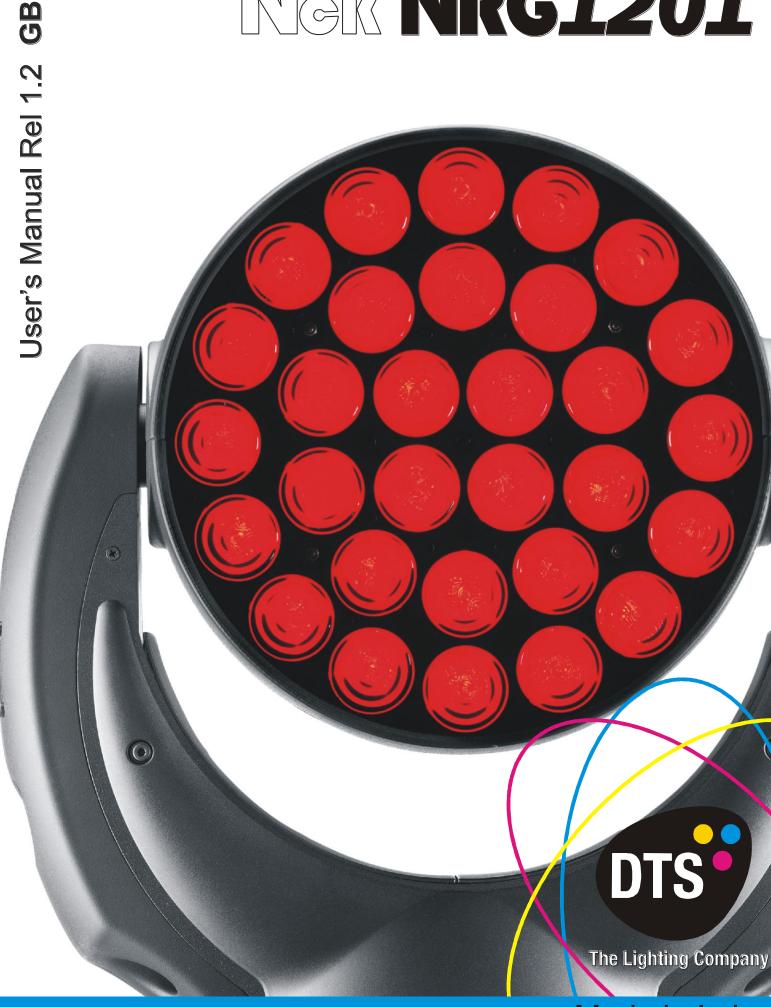
Nek NRG1201



D.T.S. Illuminazione srl Via Fagnano Selve 10/12/14

Made in Italy

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1- SYMBOLS

Graphic symbols used on this manual:



THIS SYMBOL INDICATES A HOT SURFACE



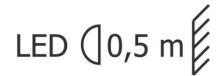
THIS SYMBOL INDICATES ELECTRIC SHOCK RISK



THIS SYMBOL INDICATES GENERAL RISK



THIS SYMBOL MEANS "YOU CAN PLACE THE UNIT ON NORMALLY FLAMMABLE SURFACES"



THIS SYMBOL INDICATES THE MINIMUM DISTANCE FROM THE ILLUMINATED OBJECTS



THIS SYMBOL INDICATES THE EUROPEAN COMMUNITY DIRECTIVE 2002/96/EC ON WASTE ELECTRICAL AND ELECTRONIC EQUIPMENT (WEEE)

2- GENERAL WARNING

Read the instruction contained in this user manual carefully, as they give important information regarding safety during installation, use and maintenance.

The device is not for domestic use and must be installed by a qualified electrician or experienced person.

Always disconnect the device from the mains before maintenance.

The device must always be equipped with an efficient ground connection.

3- GENERAL WARRANTY CONDITIONS

The unit is guaranteed for 36 months from the date of purchase against manufacturing material defects.

4- TECHNICAL FEATURES

Overview

NICK NRG 1201 is the most efficient LED moving head wash light ever produced and, thanks to its specifically developed optical group, fears no competition.

The exceptional brightness/consumption ratio makes NICK NRG 1201 a truly "green" fixture.

NICK NRG's new-generation optical group is an exclusive D.T.S. feature.

NICK NRG 1201 is equipped with 30 high-power FULL COLOUR LEDs (RGBW).

NICK NRG 1201 features 8°- 50° motorized zoom with a high efficiency optical system enabling it to be used as a PC Beam or a very wide Wash and ultra-fast silent Pan/Tilt. NICK NRG 1201, is also equipped with the "FPR" system (patent pending), which enables limitless pan rotation in both directions, with no need for inversion.

Applications

NICK NRG 1201 is suitable for top professional applications, such as tours and special events.

NICK NRG 1201 is also available as NICK NRG 1201 CT (30 Full White LEDs, 2700K-6500K).

D.T.S. Product codes:

03.LDR006.F NICK NRG 1201 FC Black finish NICK NRG 1201 FC FPR Black finish

03.LDR006.FW NICK NRG 1201 CT Black finish NICK NRG 1201 CT FPR Black finish

LED Technology

* 30 x FULL COLOUR LEDs (RGBW)

Optical group

- * 8°- 50° linear motorized zoom with high-efficiency optical system
- * Uniform projection on surfaces, from very wide Wash to PC Beam

Colour generation

- * 16 million colours
- * Wide palette of pure uniform whites with variable linear colour temperature (2700K 8000K)

Interface / Control / Programming

- * Multi-function OLED graphic colour display + 4 soft keys: control / management / monitoring of the main parameters
- * Controlled via DMX 512 and RDM standard digital communication protocols
- * Wireless ready
- * Ethernet ready
- * Internal operating system updatable via D.T.S. RED BOX interface via "D.T.S. firmware upgrade utility" program on windows based PC

DMX

20 DMX channels

Pan & Tilt

NICK NRG 1201 FPR (Cod. 03.LDR006.FFP; Cod. 03.LDR006.FWFP)

* 'FPR': limitless pan rotation, in either direction, never having to reverse motion Tilt 270° (1,2 sec.)

NICK NRG 1201 (Cod. 03.LDR006.F; Cod. 03.LDR006.FW)

- * Ultra-fast movement: Pan 540° (2 sec.); Tilt 270° (1,2 sec.)
- * 16-bit movement resolution
- * Selectable speed ranges

Power supply

- * Electronic full-range AC 90-260V 50-60 Hz
- * Power consumption: 90 V 3.7 A 340 W; 120 V 2.83 A 340 W; 230 V 1.47 A 340 W; 260 V 1.3 A 340 W

Connectors

- * DMX: 4 XLR connectors (3-pole In and Out; 5-pole In and Out) by Neutrik;
- * Power supply: POWERCON In/Out connectors by Neutrik.

Operating ambient temperature

-10° / 40°

Weight

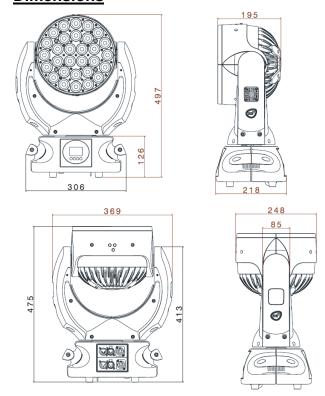
10,5 Kg

International certifications

Certification CE; LED Class: Class 2 LED product

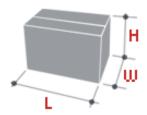
5- TECHNICAL SPECIFICATIONS

Dimensions



Packaging Dimensions (LxWxH) 530 x 430 x 414 mm

Weight: 13 Kg



6- ACCESSORIES

As standard

- 1 x POWERCON male cable connector (cod. 0520P014)
- 1 x XLR 5 Pins male cable connector (cod. 0508B028)
- 1 x XLR 5 Pins female cable connector (cod. 0508B027)
- "C" Clamp GQUICK with "Fast Lock" connection 1/4 turn (cod. 0521A014)
- User's manual

Optional (on request)

Flight case

• Professional Flight case for 4 units; compartment for accessories, swivel wheels, cover with hinges with-stay, dishes on cover for piling, 8 handles (2 eachside) (cod. 0521C051.1)

Wireless DMX receiver retrofit

 Wireless DMX Receiver Card with INDOOR IP20 omni, 2dBi antenna included (cod.03.LA.126)

Clamps / safety wires

- "C" Clamp G60 black (max. load 50Kg) (cod. 0521A004)
- "C" Clamp GQUICK with "Fast Lock" connection 1/4 turn (max. load. 80Kg) (cod. 0521A014)
- "C" Clamp G100 black / professional (max. load. 200Kg) (cod. 0521A015)
- Omega clamp with "Fast Lock" connection 1/4 turn 1 couple (2 pieces) (Cod. 02K00467)
- Safety wire (3mm x 60 cm), max. capacity load 60Kg (cod. 0521A010)

7- IMPORTANT SAFETY INFORMATION

7.1 Fire prevention:

- -It is permissible to place the unit on normally flammable surfaces. Suitable for mounting on normally flammable materials surfaces greater than 200°C with some combustion time lag.
- -Minimum distance from the closest illuminable surface: 0,5 m. LED (0,5 m)
- -Replace any blown or damaged fuses only with those of identical value (5AT). Refer to the wiring diagram if there is any doubt.
- -Connect the projector to mains power via a thermal magnetic circuit breaker.

7.2 Prevention of electric shock:



- -High voltage is present inside the unit. Unplug the unit prior to performing any function which involves touching the inside of the moving head.
- -The level of technology inherent in the NICK NRG 1201 requires the assistance of specialised personnel for all servicing.

Please refer to an authorised D.T.S. service centre.

- -A good earth connection is essential for proper functioning of the projector.
- -Never connect the unit without proper earth connection.
- -The fixture should be located in places with a good air ventilation.

7.3 Safety:



- -The projector should always be installed with bolts, clamps and other tools that are capable of supporting the weight of the unit.
- -Always use a second safety cable to sustain the weight of the unit in case of the failure of the main fixing point.
- -The external surface of the unit, at various points, may exceed 70°C. Never handle the unit until at least 10 minutes have elapsed since the projector was turned off.
- -Never install the fixture in an enclosed area lacking sufficient air flow.

The ambient temperature should not exceed 40°C.

7.4 Level of protection against the penetration of solid and liquid objects:



-The projector is classified as an ordinary appliance and its protection level against the penetration of solid and liquid objects is IP 20.

7.5 Waste Electrical and Electronic equipment (WEEE) directive:



-The machine, accessories and packaging should be sorted for environmetal-friendly Recycling.

For EC countries: according to the European Directive 2002/96/EC for Waste Electrical and Electronic Equipment and its implementation into national right, luminaires that are no longer usable must be collected separately and disposed of in an environmentally correct manner.

8- VOLTAGE AND FREQUENCY

The NICK NRG 1201 can operates at 90-260V 50-60 Hz.

9- INSTALLATION

NICK NRG 1201 may be either floor or ceiling mounted.

For floor mounting installations, the NICK NRG 1201 is supplied with four rubber mounting feet on the base.

For ceiling mounted installations, we reccomend the use of appropriate clamps to fix the unit to the mounting surface.

The supporting structure from which the unit is hung should be capable of bearing the weight of the unit, as should any clamps used to hung it. The structure should also be sufficiently rigid so as not to move or shake whilst the NICK NRG 1201 is moving. Four 1/4 turn Fast Locks connections placed in the base of the unit allow to hang the NICK NRG 1201 by using the Fast Lock "C" clamps provided in the box.





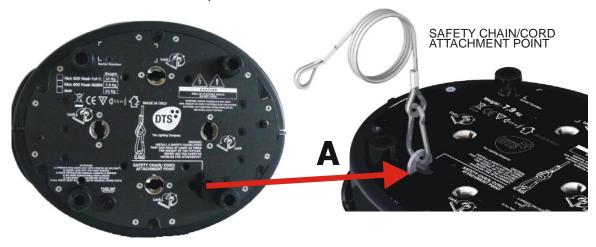
9.1- Safety cable



We recommend the use of a safety cable or chain connected to the NICK NRG 1201 and to the suspension truss in order to avoid the fixture accidentally falling should the main fixing point fail.

Make sure that the iron cable or chain can bear the weight of the entire unit.

You may attach the safety chain/cord to the attachment point (A) located on the base of the fixture, as shown in the picture below.



9.2 Protection against liquids



The projector contains electric and electronic components which should under no circumstances come into contact with oil, water or any other liquid.

The proper unit functioning would be compromised should this occur.

9.3- Movement

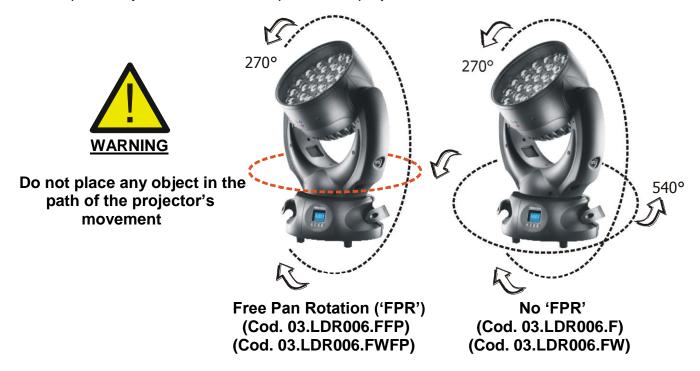
NICK NRG 1201 FPR (Cod. 03.LDR006.FFP; Cod. 03.LDR006.FWFP)

Unlimited Pan rotation; Tilt 270° (1,2 sec.)

NICK NRG 1201 (Cod. 03.LDR006.F; Cod. 03.LDR006.FW)

Ultra-fast movement: Pan 540° (2,0 sec.); Tilt 270° (1,2 sec.)

Do not place any obstructions in the path of the projector's movement.



9.4- Risk of fire

Each fixture produces heat and must be installed in a well-ventilated place. It is permissible to place the unit on normally flammable materials surfaces. Suitable for mounting on normally flammable materials surfaces greater than 200°C with some combustion time lag.

Minimum distance from the object being illuminated is 0,5 m. LED (0,5 m)

9.5- Forced ventilation

You will note, on inspection, that the unit features various air inlets and cooling fans. These should, under no circumstances, be blocked or obstructed whilst the projector is in operation. Doing so could cause the fixture to seriously overheat thereby compromising its proper operation.

9.6- Ambient temperature

The projector should never be installed in places that lack a constant air flow. The ambient temperature should not exceed 40°C.

10- MAINS CONNECTION

NICK NRG 1201 operate at 90-260V 50-60 Hz.

Prior to connecting the unit to your mains supply, ensure that the model in your possession correctly matches the mains supply available.

For connection purposes, ensure that your plug is capable of supporting 2 amps at 230V, or 5 amps at 90 V.

Strict adherence to regulatory norms is strongly recommended.

MAINS AC OUTPUT 90 - 260 V 50 / 60 Hz (16A Max) MAX 10 NICK NRG 1201 UNITS @ 230V

MAX 5 NICK NRG 1201 UNITS @ 120V



Cod. 03.LDR006.F Cod. 03.LDR006.FW

Cod. 03.LDR006.FFP Cod. 03.LDR006.FWFP

MAINS AC INPUT 90 - 260 V 50 / 60 Hz

Wireless DMX Receiver Retrofit (Cod. 03.LA.126)





FUSE 5AT 5X20

10.1- Protection

The use of a thermal magnetic circuit breaker is recommended for each NICK NRG 1201.

11- DMX SIGNAL CONNECTION

The unit operates using the digital DMX 512 (1990) signal.

Connection between the mixer and the projector or between projectors must be carried out using a two pair screened Ø 0.5 mm cable and a XLR 5 or 3 pins connector.

Ensure that the conductors do not touch each other.

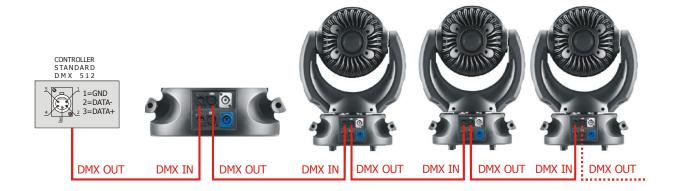
Do not connect the cable ground to the XLR chassy.

The plug housing must be isolated. Connect the mixer signal to the DMX IN projector plug and connect it to the next projector by connecting the DMX OUT plug on the first projector to the DMX IN plug of the second one.

This way, all the projectors are cascade connected.

NB. <u>If the display showing the DMX address flashes, then one of the following errors</u> has occurred:

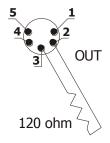
- DMX signal not present
- DMX address not valid
- DMX reception problem



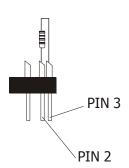
For Installations where long distance DMX cable connections are needed, we suggest to use a DMX terminator.

The DMX terminator is a male XLR 3-5 pins connector with a 120 ohm resistor between pin 2 and 3.

The DMX terminator must be plugged into the last unit (DMX out panel connector) of the DMX line.



PLACE A 120 OHM RESISTOR BETWEEN PIN 2 AND 3 OF A MALE XRL CONNECTOR AND PLUG IT INTO THE DMX OUT PANEL CONNECTOR OF THE LAST UNIT CONNECTED TO THE DMX LINE



11.1-DMX Addresses

NICK NRG 1201 can be controlled with 20 DMX channels.

In order to use the unit in 20 channels, set the following addresses on the mixer:

Projector 1 A001
Projector 2 A021
Projector 3 A041
.... A....
projector 6 A101

If you want to select the next projector, just add "20"

11.2-Selecting the DMX address

- 1) Press the UP-DOWN key until you reach the required DMX channel. The numbers on the display will start to flash (but the new DMX address hasn't yet been set).
- 2) Press ENTER to confirm your selection. The numbers on the display will stop flashing and the projector is now setted to the new DMX address.

TRICKS:

if you keep pushed the UP or DOWN keys, the channels are calculated more quickly and you get a faster selection.

12- FIRMWARE UPDATING

Warning:

This procedure require a base knowledge of computer applications and Windows Hyperterminal program. Please refer to an authorised D.T.S. service centre.



To update the software version of the NICK NRG 1201 you need:

D.T.S. RED BOX interface (D.T.S. Code: 03.LA.008).

USB-DMX Driver for the D.T.S. RED BOX interface.

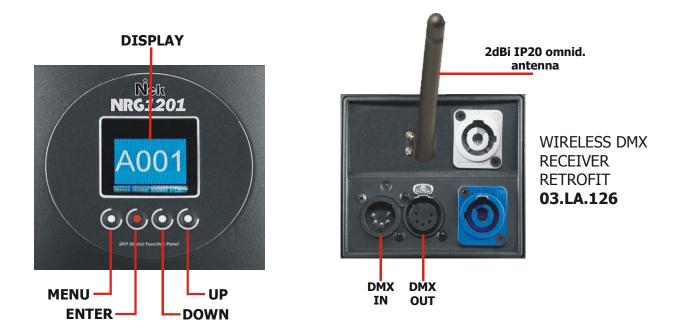
D.T.S. Firmware upgrade utility program.

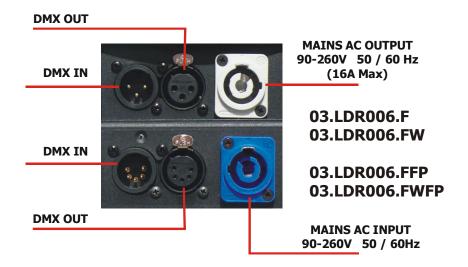
(The driver and the installation procedure are available in our web site www.dts-lighting.it)

Updating the software version.

Please follow the procedure below to perform the update:

- 1. Install the D.T.S. RED BOX USB-DMX driver on the PC you will use to update the unit software.
- 2. Connect the D.T.S. RED BOX interface to the PC by using a USB cable.
- 3. Connect the D.T.S. RED BOX interface to the fixture by using a DMX cable.
- 4. Download the new software version into the unit by using D.T.S. Firmware upgrade utility program.





DISPLAY FUNCTIONS

The NICK NRG 1201 display panel shows all the available functions. Using these functions, it is possible to change some of the parameters and add some functions. Changing the D.T.S. setting can vary the functions of the unit so that it does not respond to the DMX 512 used to control it. Carefully follow the instructions below before carrying out any variations or selections.

NOTE: the symbol shows which key has to be pushed to obtain the desired function.

Software version 1.29



Display





DISPLAY POSITION / STAND BY

Display Position: Reverses display's reading depending on the mounting position (on the ground or suspended).

Display Standby:

To turn off the display (after 5 seconds) or leave it always on.



Display Position ON THE GROUND (Default) SUSPENDED





Display Standby OFF = Display Standby disabled (Default) ON = Display goes OFF after 5 seconds





DMX Set





20 ch With FAR

DMX Mode 20 channels



DMX MODE / MACRO DMX Mode 20 channels

MACRO

Macro Mode:

STD = Standard (Default)

EXT = Extended; enable rainbow effects on Macro channel (DMX ch 16)



DMX SET

DMX MODE

MENU ENTER DOWN UP

MACRO

STD = Standard mode enabled

EXT = Extended; enable rainbow effects on Macro channel (DMX ch 16)

DIMMER DELAY

This menu allows to select the value of the delay (in seconds) for the Dimmer channel reaction to DMX or program variation



DIMMER DELAY Range: 0.1 - 2.0 sec. Default = disabled



LED



MIN / MAX COMPATIBILITY

This menu allows to set same RGBW light output intensity and colour temperature between new and old units.

Red, Green, Blue and White min/max values are activated into the "service" menu.

SMOOTH VALUE

This menu allows to select the value of the delay (in milliseconds) for RGBA and Dimmer channels reaction to DMX or Program variation.

4 = 25 ms delay (Fast response) 20 = 250 ms delay (Slow response)

GAMMA CORRECTION

This menu allows to select between Linear current output or Quadratic current output for LEDs Default = Quadratic

OUTPUT FREQUENCY

This menu allows to adjust the PWM frequency value (Hz) in order to reduce flickering in the process of your camera recordings

LED CURRENTS

This menu shows the value of the real time current (mA) for the Red, Green, Blue and White LEDs

BOOST DRIVING

This menu allows to increase the LED's current from 350 mA to 500 mA

CTC COMPATIBILITY

This menu allows to have the same "Whites" colour temperature from the DMX channel "CTC" between NICK NRG 1201 and the other DTS range LED units (NICK NRG 501, NICK NRG 801 and WONDER).



MIN / MAX CMPT. Default = disabled





SMOOTH Range = Off – 20 Default = 4



GAMMA CORRECTION Linear = Linear current output Quadratic = Linear light output (default)



OUTPUT FREQUENCY Range = 610 Hz – 10 KHz Default = 610 Hz



LED CURRENTS
Real time currents for LEDs
monitoring



BOOST With BOOST active, the LED's current is set to 500 mA (30% more gain) Default = Enabled



CTC COMPATIBILITY Default = Disabled



AUTO



AUTOMATIC MODE Automatic demo game without DMX controller

STEP 01/16 Chase with 16 steps previously created in REC MODE

Speed time, Wait time, Dimmer, Pan, Tilt and Zoom values selectable by user.

PERSONAL COLOURS RGBW, Dimmer, Shutter, Pan, Tilt and Zoom values selectable by user.

RAINBOW
Rainbow colours effect.
Speed time, Dimmer, Shutter, Pan,
Tilt and Zoom values selectable by user.

FIXED COLOURS
Sixteen Colour Macros as
on "MACRO" channel.
Dimmer, Shutter, Pan, Tilt and
Zoom values selectable by user.

WHITE MACROS
Sixteen macros for White
color (from 2700K to 8000K
for NICK NRG 1201 FC; from
2700K to 6500K for NICK
NRG 1201 CT).
Dimmer, Shutter, Pan, Tilt and
Zoom values selectable by user.







By setting all the units connected to the MASTER to DMX address 1, them will be synchronized with the Master unit following the chase selected on it, including TIME, WAIT, Pan&Tilt and Zoom position of the MASTER unit.

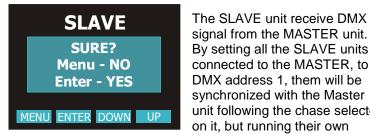




SLAVE



SLAVE MODE SETTING This menu allow to set the NICK NRG 1201 as slave unit. DMX signal must be present from MASTER unit (set in AUTO MODE) in order to ran the units in SLAVE mode. By setting all the SLAVE units connected to the MASTER, to DMX addess 1, them will be synchronized with the Master unit following the chase selected on it, but running their own Pan&Tilt and Zoom position.





signal from the MASTER unit. By setting all the SLAVE units connected to the MASTER, to DMX address 1, them will be synchronized with the Master unit following the chase selected on it, but running their own Pan&Tilt and Zoom position.









WIRELESS INTERPRETED









Wieless DMX enabled / disabled. By activating WDMX MODE, it will be possible to control NICK NRG 1201 via D.T.S. ANTENNA Wireless DMX Transmitter (cod. 03.E1271).

Wireless DMX Receiver Kit (Cod. 03.LA.126) on NICK NRG 1201 is available on request.



WIRELESS DMX SYSTEM **DISABLED** (Default)





WIRELESS DMX SYSTEM **ENABLED**





UNLINK = LOG OUT



Logging on NICK NRG 1201 (WIRELESS DMX must be enabled on the unit).

To log on the NICK NRG 1201 in the WIRELESS system simply press and quickly release the function button on the transmitter .

The transmitter will start flashing rapidly red/green scanning for new free receivers / NICK NRG 1201 units. When a NICK NRG 1201 logs on to the transmitter the LINK green light on transmitter starts to flash rapidly.

After approximately 10 seconds the transmitter will jump back to normal mode and continue transmitting data. The NICK NRG 1201 now try to synchronize to the transmitter.

When synchronized to the transmitter, 2 different modes are possible:

- 1. Antenna transmitter has detected and transmits a DMX signal, in this mode a solid green light is seen on the transmitter and solid display is seen on NICK NRG 1201.
- 2. No DMX signal connected, the Antenna transmitter will flash red/green; display blinking on NICK NRG 1201.

To log off NICK NRG 1201 from a transmitter simply select UNLINK function under WIRELESS DMX MENU and press ENTER.

When NICK NRG 1201 is logged off the display is blinking, meaning its available for log in on a new transmitter.

Logging out a NICK NRG 1201.

Select UNLINK function under WIRELESS DMX MENU and press ENTER.

When NICK NRG 1201 is logged off the display is blinking, meaning its available for log in on a new transmitter.

Logging out all NICK NRG 1201 linked to a transmitter.

Press and hold the function button of the transmitter for about 3 seconds. When the display is blinking on NICK NRG 1201, it mean that the units are logged out.

Transmitter, Status LED.

Flashing red/green, no dmx connected.

Solid green, dmx signal detected and transmitted.

Fast flashing red/green, log in mode (every free NICK NRG 1201 unit, not logged in to any other transmitter, will be logged on)

NICK NRG 1201 Status.

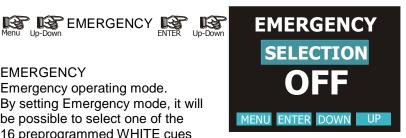
Display blinking, not logged on to a transmitter (free).

Solid display, logged on to a transmitter and receiving dmx data.



EMERGENCY

Emergency operating mode. By setting Emergency mode, it will be possible to select one of the 16 preprogrammed WHITE cues that will then ran if DMX signal is missing or not available. Useful for Emergency EXIT illumination on public areas. Dimmer level, Pan&Tilt and Zoom values selectable by user.



EMERGENCY Disabled = Default





EMERGENCY Enabled



WHITE (1-16) Default = WHITE 1



DIMMER Default = 255



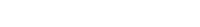
PAN Default = 128



TILT Default = 128



ZOOM Default = 0



DEFAULT SETTINGS To restore default settings









TEMPER. °C



TEMPERATURE This menu shows the real time unit temperature





TIME



LIFE TIME This menu shows the total unit life time and the RGBW LEDs life time















SYSTEM



PAN INVERSION / TILT INVERSION / PAN SPEED / TILT SPEED / ZOOM SPEED / FANS SETTING / FAN MAX SPEED / RESET BY DMX / MOTORS FIRMWARE UPGRADE.

PAN INVERSION

This menu allows to set the Pan movement. Normal or Reversed.

TILT INVERTION

This menu allows to set the Tilt movement. Normal or Reversed.

PAN SPEED

Pan Speed control (1-8)

TILT SPEED

Tilt Speed control (1-8)

ZOOM SPEED

Zoom Speed control (1-4)

FANS SETTING

STUDIO mode = Low fans speed for a very low noise operation. LIVE-TOUR mode = High fans speed: the LEDs always work at maximum power.

FAN MAX SPEED

This menu' allows to select the internal fans speed.

RESET BY DMX

This menu allows to enable / disable the Motors reset control (Pan&Tilt and Zoom) via DMX.

MOTORS FIRMWARE UPGRADE This menu allows to upgrade the

firmware for Zoom and Pan&Tilt circuit boards.



PAN INVERSION Default = NORMAL



SYSTEM

TILT INVERSION

NORM

MENU ENTER DOWN UP

TILT INVERSION Default = NORMAL

SYSTEM

PAN SPEED

5

MENU ENTER DOWN UP

Default = 5

PAN SPEED CONTROL

TILT SPEED CONTROL Default = 5

SYSTEM

ZOOM SPEED

MENU ENTER DOWN UP

ZOOM SPEED CONTROL Default = 1

SYSTEM

FAN SETTING

STUDIO

MENU ENTER DOWN UP

FANS SETTING STUDIO or LIVE-TOUR mode Default = STUDIO

SYSTEM

FAN MAX SPEED

100%

MENU ENTER DOWN UP

FAN MAX SPEED 50% (12V) - 100% (24V) Default = 100%

SYSTEM

RESET BY DMX

ENAB

MENU ENTER DOWN UP

RESET BY DMX

Enable: Motors reset enabled via DMX

(Default)

Disabled: Motors reset disabled via DMX

Now: Instant motors reset.

SYSTEM

MOTORS FW UPGRADE

MENU ENTER DOWN UP

MOTORS FIRMWARE UPGRADE Zoom and Pan&Tilt circuit boards firmware upgrade.









SOFTWARE

LEDs circuit board and motors Circuit boards (Pan&Tilt-Zoom) software version



LEDs CIRCUIT BOARD SOFTWARE VERSION



MOTORS CIRCUIT BOARDS SOFTWARE VERSION (PAN&TILT – ZOOM)

14- PERIODIC CLEANING

Front lenses Glass

The dust can reduce the luminous output substantially.

Regularly clean the front lenses glass using a soft cotton cloth, dampened with a specialist glasses cleaning solution.

Fans and air passages

The fans and air passages must be cleaned approximately every 6 weeks.

This periodic cleaning will depend of course, on the conditions in which the projector is operating.

Suitable instruments for performing this type of maintenance are a brush and a common vacuum cleaner or an air compressor.

If necessary, clean the fans and air passages more frequently.

15- PERIODIC CONTROLS



Mechanical parts

Periodically check all mechanical parts and the gaskets, replacing them if necessary.

Electrical components

Check all electrical components for correct earthing and proper attachment of all connectors, refastening if necessary.

> Attention: Disconnect mains power prior to removing the projector housing.



Fuse replacement

Locate the fuse, which protect the electronics, in the base of the NICK NRG 1201. Using a multimeter, test the condition of the fuse, replacing it with one of equivalent type (5AT) if necessary.

Attention: Disconnect mains power prior to removing the projector housing.



16- DMX PROTOCOL

20 CHANNELS MODE

- PAN msb 540°
- **PAN Isb**
- 2 3 4 5 6 7 TILT msb 270°
- **TILT Isb**
- SPEED MOVEMENT
- PAN FPR (Active only on units with FPR: 03.LDR006.FFP; 03.LDR006.FWFP)
- NO FUNCTION
- 8 **SHUTTER**
- 9 **DIMMER**
- 10 **RED**
- **GREEN** 11
- 12 **BLUE**
- WHITE 13
- 14 WHITE PRE-PROGRAMMED
- 15 CTC
- **MACRO** 16
- 17 **FUNCTION** (Recall, Create and Store the Custom white)

1 Parameter: PAN msb

- 18 ZOOM
- 19 **NO FUNCTION**
- 20 **RESET**

DMX CHANNEL

DMX CHANNEL	2	Parameter: PAN Isb
DMX CHANNEL	3	Parameter: TILT msb
DMX CHANNEL	4	Parameter: TILT Isb
DMX CHANNEL	5	Parameter: SPEED MOVEMENT

DMX range Value	Mid Point DMX value	Move Range (degrees)	Mode	Option	Function
000-010					Standard
011-025					Fast movement
					Vector mode
026-127					from fast to
					slow
					Variable time
					reaction to
128-247					DMX signal (fast
					to slow)
					Slow reaction
248-255					time to DMX
					signal

DMX CHANNEL 6 Parameter: PAN FPR (Active only on units with FPR: 03.LDR006.FFP; 03.LDR006.FWFP)

DMX range Value	Mid Point DMX value	Move Range (degrees)	Mode	Option	Function
000-010					Position mode 540° (standard path)
011-020					Position mode 360° (1 turn)
021-030					Position mode 720° (2 turns)
031-040					Position mode 1080° (3 turns)
041-050					Position mode 1440° (4 turns)
051-060					Position mode 1800° (5 turns)
061-070					Position mode 2160° (6 turns)
071-080					Position mode 2520° (7 turns)
081-090					Position mode 2880° (8 turns)
091-100					Position mode 3240° (9 turns)
101-110					Position mode 3600° (10 turns)
111-120					Position mode 360° smart path
121-182					Forward spin rotation speed from
					max to min
183-193					Stop
194-255					Reverse spin rotation speed from min to max

DMX CHANNEL 7 Parameter: NO FUNCTION

DMX range Value	Mid Point DMX value	Move Range (degrees)	Mode	Option	Function
000-255					NO FUNCTION

DMX CHANNEL 8 Parameter: SHUTTER

DMX range Value	Mid Point DMX value	Move Range (degrees)	Mode	Option	Function
000-009					Black-out
010-019					Open
020-029					Black-out
030-119					Strobe (from 3.27 s to 30 ms)
120-149					Pulse up (from 42.6 s to 120 ms)
150-179					Pulse down (from 42.6 s to 120 ms)
180-204					Random strobe (Dimmer, Red, Green, Blue, Amber channels active)
205-229					Full independent Random Strobe (Dimmer, Red, Green, Blue, Amber channels disabled)
230-255					Open

DMX CHANNEL 9 Parameter: **DIMMER**

DMX range Value	Mid Point DMX value	Move Range (degrees)	Mode	Option	Function
Value	value	(uegrees)			
000-007					Black-out
008-255					Proportional dimmer

DMX CHANNEL	10 Para	ameter: RED			
DMX range Value	Mid Point DM2	X Move Range (degrees)	Mode	Option	Function
000-255					Proportional colour
DMX CHANNEL	11 Para	ameter: GREEN			
DMX range Value	Mid Point DM	X Move Range (degrees)	Mode	Option	Function
000-255		(100)			Proportional colour
DMX CHANNEL	12 Para	ameter: BLUE			
DMX range Value	Mid Point DM	X Move Range (degrees)	Mode	Option	Function
000-255		(5			Proportional colour
DMX CHANNEL	13 Para	ameter: WHITE			
DMX range Value	Mid Point DM	X Move Range (degrees)	Mode	Option	Function
000-255					Proportional colour
DMX CHANNEL	14 Para	ameter: WHITE PREPRO	OGRAMMED (Wh	ite at diff. colour	temperature)
DMX range Value	Mid Point DM	X Move Range (degrees)	Mode	Option	Function
000-055	23	(No Function Full (Red-Green-
056-105 106-155	80 130				Blue at Full) White DTS
156-205	180				Custom White Create (RGB levels selectable by DMX)
206-255	230				White CTC (Channel 15 CTC enabled)
DMX CHANNEL	15 Para	ameter: CTC (Colour Te	emperature Corre	ection)	
DMX range	Mid Point DM	IX Move Range	Mode	Option	Function

DMX range Value	Mid Point DMX value	Move Range (degrees)	Mode	Option	Function
IF CH	ANNEL 14 WHITE F	PREPROGRAMME	D = WHITE CTC (D	MX range value 20	06 – 255)
000-255					Linear control temperature correction. NICK NRG 1201: 0 = 2700°K / 255 = 8000°K. NICK NRG 1201 CT: 0 = 2700°K / 255 = 6500°K

MX CHANNEL	16 Parameter:	r: COLOUR MACROS
IF: Menu Up-Down D	MX SET ENTER Up-Down M	MACRO ENTER Up-Down STD ENTER (Please refer to page 15 for details)
000-014		No Function
015-029		Macro 1
030-044		Macro 2
045-059		Macro 3
060-074		Macro 4
075-089		Macro 5
090-104		Macro 6
105-119		Macro 7
120-134		Macro 8
135-149		Macro 9
150-164		Macro 10
165-179		Macro 11
180-194		Macro 12
195-209		Macro 13
210-225		Macro 14
226-239		Macro 15
240-255		Macro 16

DMX CHANNE	L 16	Parameter: COLO	OUR MACROS		
F: Menu Up-Dow	DMX SET EN	TER Up-Down MACRO	ENTER Up-Down EXT	(Please refer to p	age 15 for details)
000-014					No Function
015-024					Macro 1
025-034					Macro 2
035-044					Macro 3
045-054					Macro 4
055-064					Macro 5
065-074					Macro 6
075-084					Macro 7
085-094					Macro 8
095-104					Macro 9
105-114					Macro 10
115-124					Macro 11
125-134					Macro 12
135-144					Macro 13
145-154					Macro 14
155-164					Macro 15
165-174					Macro 16
175-184				Rainb	ow Speed 1 (6 Sec.)
185-194					ow Speed 2 (15 Sec.)
195-204					ow Speed 3 (30 Sec.)
205-214				Rainbo	ow Speed 4 (45 Sec.)
215-224				Rainbo	ow Speed 5 (60 Sec.)
225-234					w Speed 6 (120 Sec.)
235-244				Rainbo	w Speed 7 (150 Sec.)
245-255					w Speed 8 (180 Sec.)

DMX CHANNEL 17 Parameter: FUNCTIONS (Recall, Create and Store the Custom white)

DMX range	Mid Point DMX	Move Range	Mode	Option	Function
Value	value	(degrees)			
	IF CHANNEL 14 W	HITE PREPROGR	AMMED = DMX rar	nge value 156 – 205	5)
000-079					Custom White
					Recall
					Custom White
080-160					Create (Enable
					Custom White
					Creation)
					Custom White
161-255					Store (Store the
					Custom White
					created)

DMX CHANNEL 18 Parameter: **ZOOM**

DMX range Value	Mid Point DMX value	Move Range (degrees)	Mode	Option	Function
000-255					Linear ZOOM from Narrow to Wide (8° - 50°)

 DMX channel
 19
 Parameter: NO FUNCTION

 DMX range
 Mid Point DMX
 Move Range
 Mode
 Option
 Function

 Value
 value
 (degrees)
 NO FUNCTION

DMX CHANNEL 20 Parameter: **RESET**

DMX range Value	Mid Point DMX value	Move Range (degrees)	Mode	Option	Function
000-015					No Effect
016-255					Total Reset (activation after 3 sec.)

NOTES

NOTES

NOTES

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The Lighting Company

ISO 9001:2008

D.T.S. quality system is certified to the ISO 9001:2008 standard



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