DmxNode – 2/1
Manual

➢ Features :

- Dual DMX outputs
- One DMX input
- Art-Net, sACN supports
- Unicast or Multicast inputs modes
- Web interface configurations
- LED shows system and signal status
- Reset button

➢ Precautions :

- Do not open the box or power supply, under penalty of warranty refusal
- Do not expose to water or moisture, under penalty of warranty refusal

➢ Specifications :

- Input voltage : 5V DC
- Dimensions (mm) : 147 W, 100 D, 41 H
- Weight : 0.7 kg
- Connectors : 1x Barrel DC, 1x RJ45, 1x MC5MAH, 1x MC5FAH
- Operational environment : -10° / 40° (non-condensing)
- Timing precision : 1 µs
- DMX break time : 100 µs (+/- 10 µs)
- DMX connectors Data - / Data + impedance : 120 Ω

➢ Package content :

- 1x HGLight DmxNode – 2/1
- 1x 5v 1A DC Power Supply (country dependent plug)

➢ Default configurations :

- Name : HGLNode2-1
- Protocol : ArtNet
- IP Address : 2.0.0.10
- Netmask : 255.0.0.0
- Subnet / Universe Out 1 : 0-1 (1)
- Subnet / Universe Out 2 : 0-2 (2)
- Subnet / Universe Out 3 : 0-3 (3)
- Input : OFF
- Send IP Address : 2.0.0.11
- Send Subnet / Universe : 0-3 (3)

➢ DMX5 Connectors' pinouts :

- Pin 1 : GND
- Pin 2 : Data – (-θ)
- Pin 3 : Data + (+θ)
- Pin 4 : None
- Pin 5 : None
- Any 3 to 5 pin DMX connector adaptor can be used (please check pinout before)

Due to continuous improvements of all products, all information contained in this document are subject to change without notification.

Status LED :

- Power :
    - Green : The node is powered
    - Off : Please check power supply or DC connector
- Out 1 :
    - Green (Blinking) : ArtNet / sACN reception
    - Off : no ArtNet / sACN reception, please check configuration or sender
- Out 2 :
    - Green (Blinking) : ArtNet / sACN reception
    - Off : no ArtNet / sACN reception, please check configuration or sender
- In :
    - Green (Blinking) : ArtNet / sACN reception or transmission
    - Off : no ArtNet / sACN reception, or no DMX input reception

Reset push button :

This button restores the default configuration of the node (network and all subnet & universe)

Please follow this procedure :
- Power on the node
- Use a pen or any other fine and sharp object (please avoid conductive objects) to push the Reset button
- Power off the node
- Power on the node

Configuration (Web Interface) :

To access the web interface configuration, please enter the IP Address (default : 2.0.0.10) in any modern web-browser (the interface is optimized for Google Chrome). You must be on the same network as the node to access the web interface configuration. Please check the settings of your computer. In case of problem and as a last resort, restart the node.

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➢ Name (setting) :

- Default : HGLNode2-1
- Maximum 10 characters
- Allowed characters :
    - abcdefghijklmnopqrstuvwxyz
    - ABCDEFGHIJKLMNOPQRSTUVWXYZ
    - 0123456789-
- This name is used for transmission of ArtNet and sACN
- To change this setting, click on the "Modify" button (immediate and no reboot required)

➢ Protocol (setting) :

- ArtNet : choose ArtNet protocol as input and output over the network
- sACN : choose sACN protocol as input and output over the network
- Changing this setting is immediate and doesn't require rebooting the node

➢ Outputs Configurations (setting) :

- IP Adress :
    - Defines the IP Address of the node over the network
    - Default : 2.0.0.10
    - Netmask is automatically calculated from this IP Address
    - To change this setting, click on the "Modify" button (reboot required)
- Subnet / Universe Out1 :
    - Defines the listening universe for output n°1
    - Subnet range : 0-15
    - Universe range 0-15
    - Example : Subnet 2 / Universe 8 = Universe 40 (16*2 + 8)
    - To change this setting, click on the "Modify" button (immediate and no reboot required)
- Subnet / Universe Out2 :
    - Same as Subnet / Universe Out1 for output n°2
- First Output On All :
    - Subnet / Universe of output n°1 is sent to all outputs (1, 2, 3)
    - In this case, the DMX input is turned into a DMX output
    - By disabling this option, outputs n°1 and n°2 return to their configuration and input is deactivated
    - To change this setting, check / uncheck the box (immediate and no reboot required)

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➢ Input Configurations (setting) :

- OFF :
  - o Input or output n°3 are disabled
- ON :
  - o Configures input "as an input"
  - o Send IP Address :
    - ▪ Defines the sending IP address for ArtNet or sACN (Unicast)
    - ▪ Default : 2.0.0.11
    - ▪ To change this setting, click on the "Modify" button (immediate and no reboot required)
- OUT3 :
  - o Same as Subnet / Universe Out1 for output n°3
- Changing this setting is immediate and doesn't require rebooting of the node