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ProPlex PPIQB825RR IQ Two 88 2x 8-Way Ethernet DMX Node User Manual

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SPECIFICATIONS

Power	100-240 VAC 50-60 Hz
Power Consumption	10.2 A
Fuse	1.0A 250V
Ethernet Ports	2
DMX Ports	8
DMX Connectors	Neutrik XLR5 Female (NC5FAV)
DMX Port Isolation	Optical, up to 1000V
Ethernet Connectors	Neutrik EtherCon RJ45
Ethernet Type	1 Gbps
Network Protocols	ArtNet, sACN (E1.31)
Cooling	Convection
Operating Temperature	-20º to +40º C
Width	19.0 in / 482.6 mm
Depth	8.38 in / 212.8 mm
Height	1.72 in / 43.7
Weight	6.83 lbs 3.1 kg

DIMENSIONS

OVERVIEW

Navigation pad

LCD display

8x DMX XLR5 female ports

8x Data activity LED's

Power Input

Fuse

2x RJ45 Network ports

10 A Power Thru

Link/Activity LED's
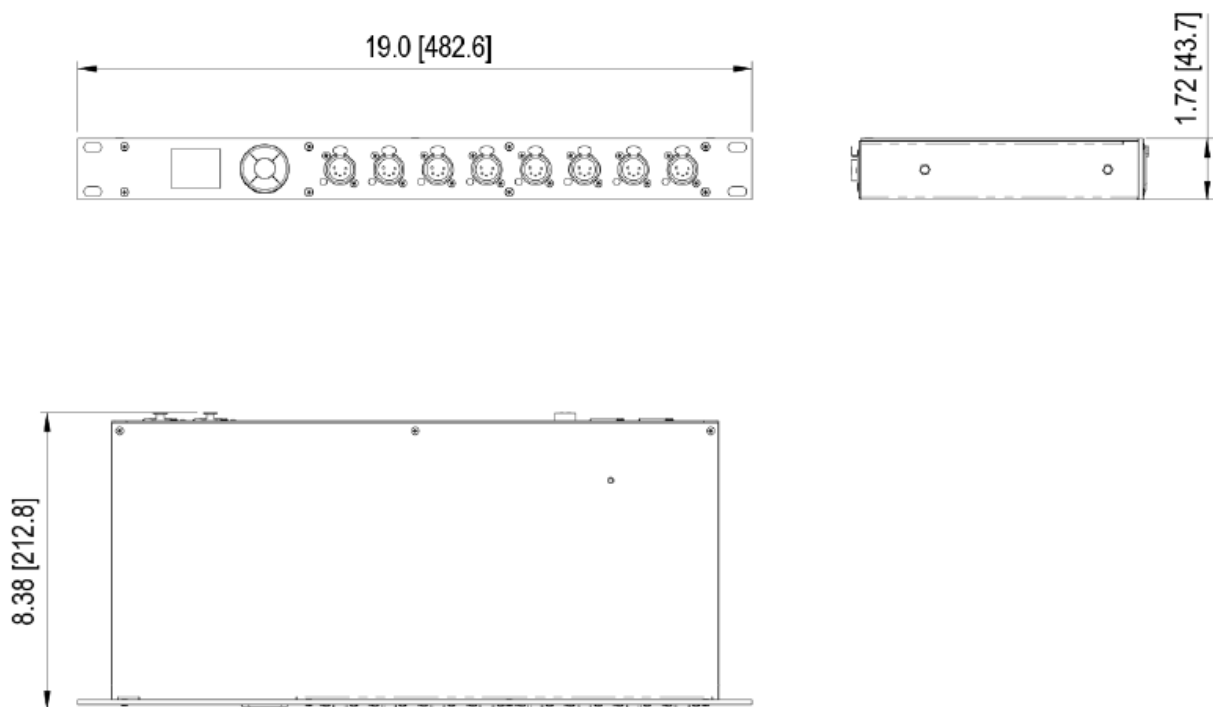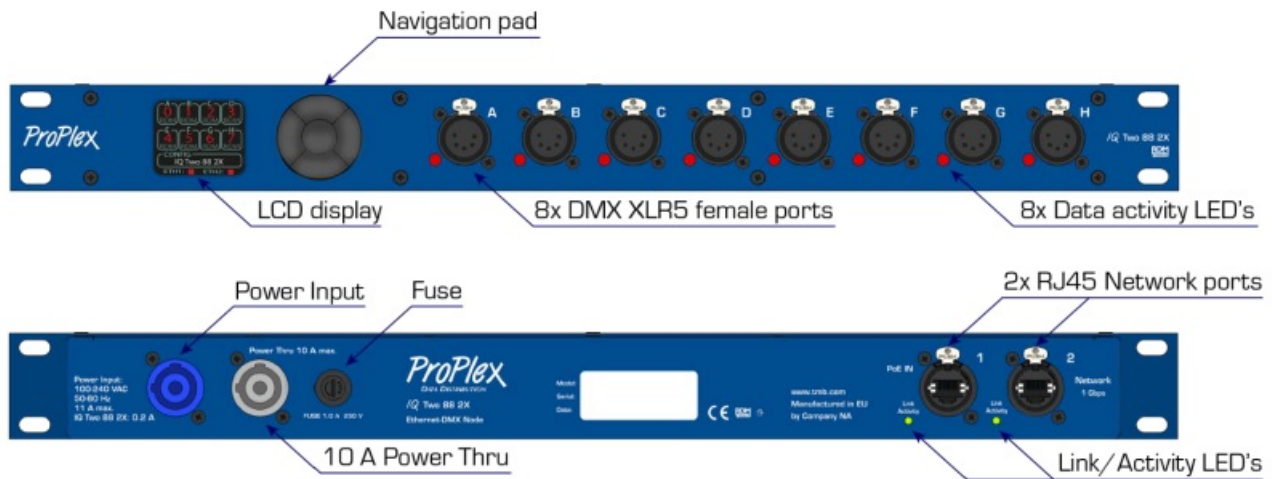
LED STATUS INFORMATION

No DMX signal incoming from network.

* DMX signal is active.

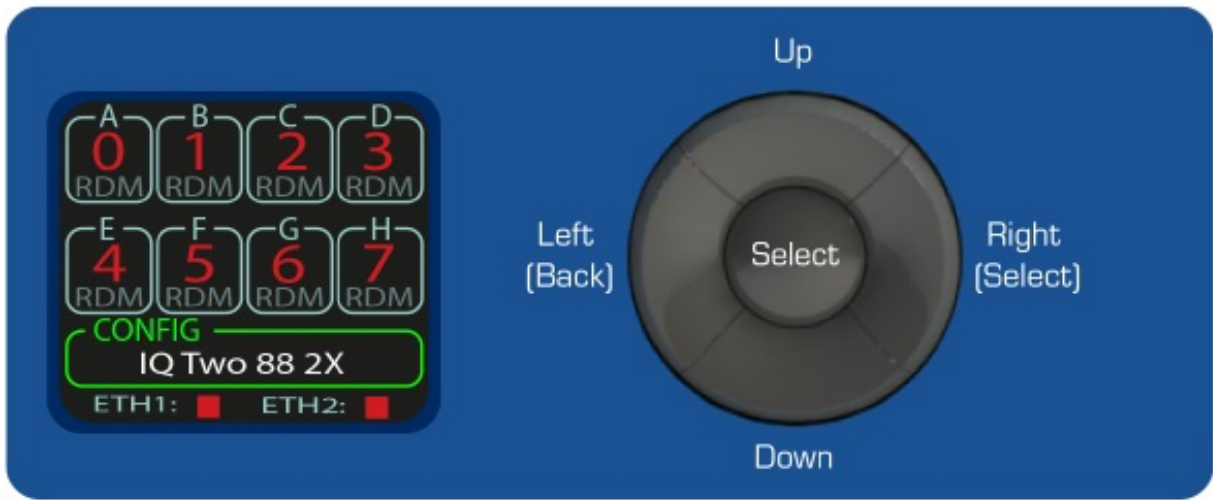(Dim) No active DMX signal.

* Active RDM packets.

DMX IN

* DMX signal is active.

(Dim) No active DMX signal.

*flashing

CONFIGURATION

IQ Two can be configured locally on the device by using control panel buttons, or remotely through the Ethernet ports by accessing a built-in web page with web browser, or with ProPlex Software.

Access Main menu functions using the navigation pad next to the LCD display. While in home screen: Press any of the directional buttons to activate the selection window marked green and choose CONFIG menu or any of eight ports for configuration. At the bottom of the home screen are two indicators.\ETH1 and ETH2 indicate the status of the two Ethernet ports located at the back of the unit

- RED: None of the ports are connected or active.
- GREY: Port is inactive
- GREEN: The port is connected and active (1Gbps)
- ORANGE: The port is connected and active (10/100 Mbps)

MENU TREE

PORTS

- **Universe**
  - 0-32 767
- **Direction**
  - Output
  - Input
- **RDM**
  - Enabled
  - Disabled
- **Priority**
  - 0-200

CONFIG

Protocol Setup

- **Protocol**
  - Art-Net
  - sACN
- **Easy Priority**
  - On
  - Off
- **Source loss action**
  - Hold values
  - Blackout
- **Source loss timeout**
  - 5s -120 s
- **DMX rate**
  - Adaptive
  - 20 Hz
  - 30 Hz
  - 40 Hz
- **ArtNet Idle resend**
  - 0.5s
  - 1.0s
  - 2.0s
  - 4.0s
- **Universe Format**
  - Base
  - Hex
  - Decimal
  - ABC

Network Setup

- **IP Address**
  - x.xxx.xxx.xxx
- **Mask**
  - xxx.x.x.x
- **Easy IP**
  - On
  - Off

Node Setup

- **Name**
- **info**
- **Keylock**
- **LCD/LED Brightness**
  - Off
  - Dimmed
  - Full
- **Universe Format**
  - Base 1
  - Hex
  - Decimal
  - ABC

Configuration

- **User config 1**
  - Record
- **User config 2**
  - Record
- **Defaults**
  - Output defaults
  - Protocol defaults
  - Reset all

PORT SETUP

- Press any of the directional buttons on the home screen to activate selection window marked green.
- Press <SELECT> to access the desired menu.
- Use <UP> and <DOWN> buttons to scroll through the menus. <LEFT> menu button can be used as secondary <BACK> button and <RIGHT> button can be used for navigation or as a secondary <SELECT> button.
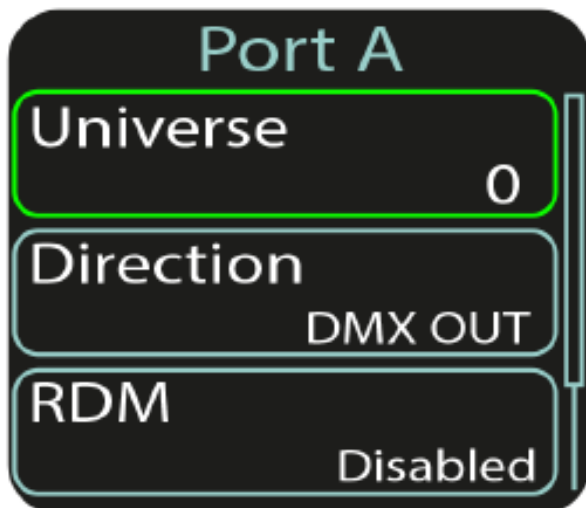

- IN: Port is configured as DMX Input
- Green bar indicates the amount of data being received
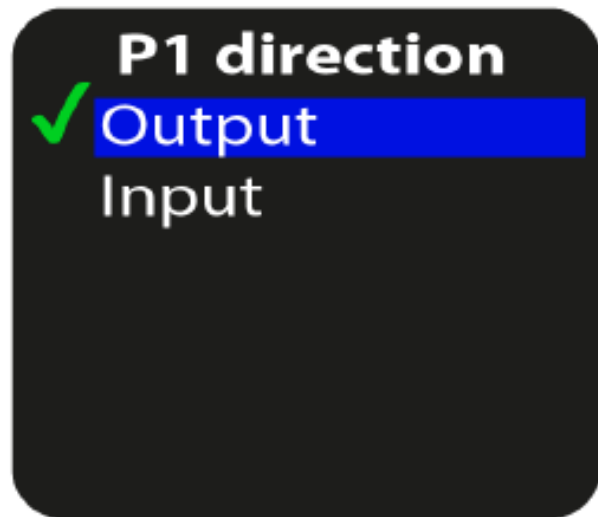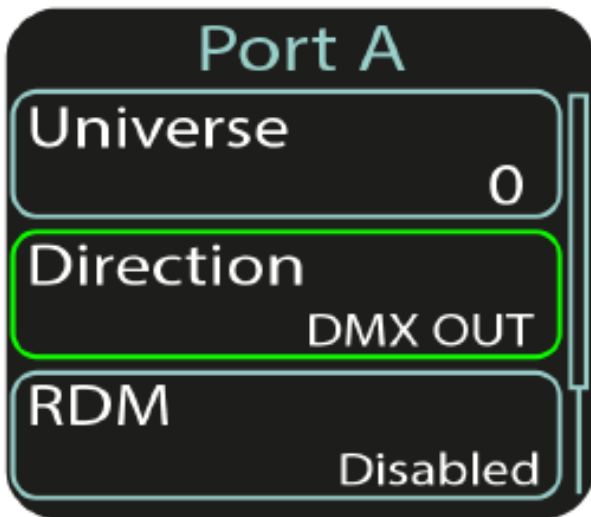- R -: RDM function has been enabled

PORT SETUP
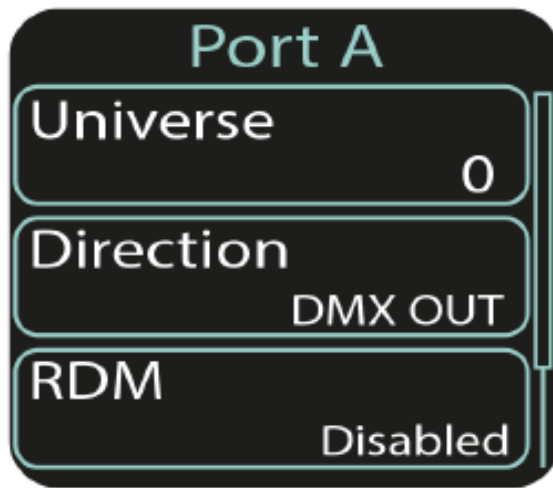
Press <SELECT> or <RIGHT> to enter the Port submenu or <LEFT> to return to the home screen. Select any of eight ports to set the desired values.

UNIVERSE SET

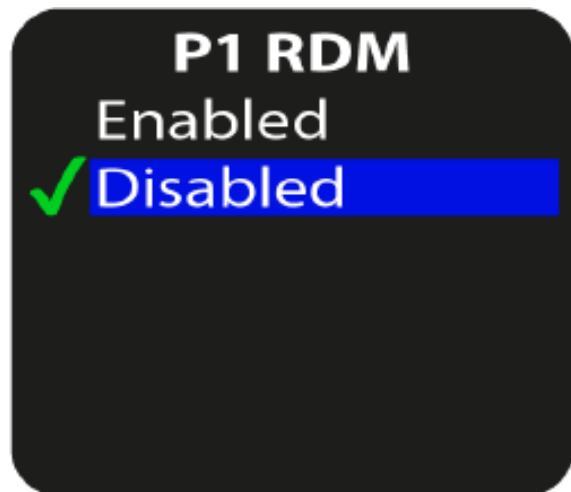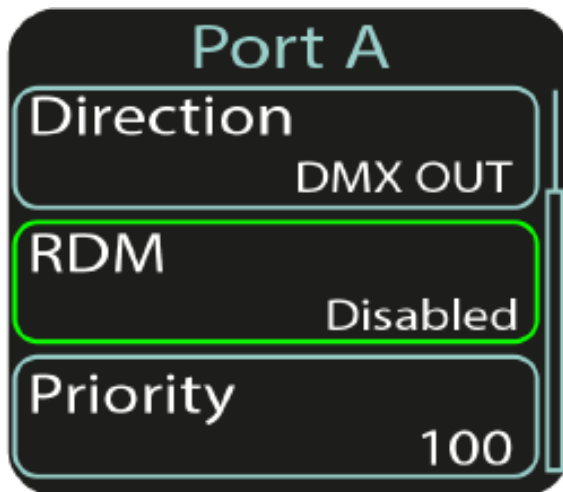
- Press <SELECT> button to access the Universe submenu.
- Press <UP> or <DOWN> to set the universe.
- Press <LEFT> or <RIGHT> to decline or confirm, <SELECT> to accept.

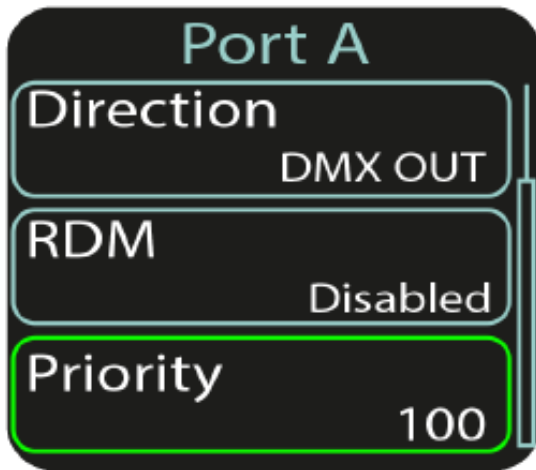**DIRECTION**

- Press <SELECT> to access the DMX Direction submenu.
- Press <UP> or <DOWN> to assign the port direction (OUT/ IN) for each DMX port. Press <SELECT> or <RIGHT> to accept, <LEFT> to decline changes.

RDM

- Press <SELECT> to access the RDM submenu.
- Press <UP> or <DOWN> to enable or disable RDM function.
- Press <SELECT> or <RIGHT> to accept, <LEFT> to decline changes.

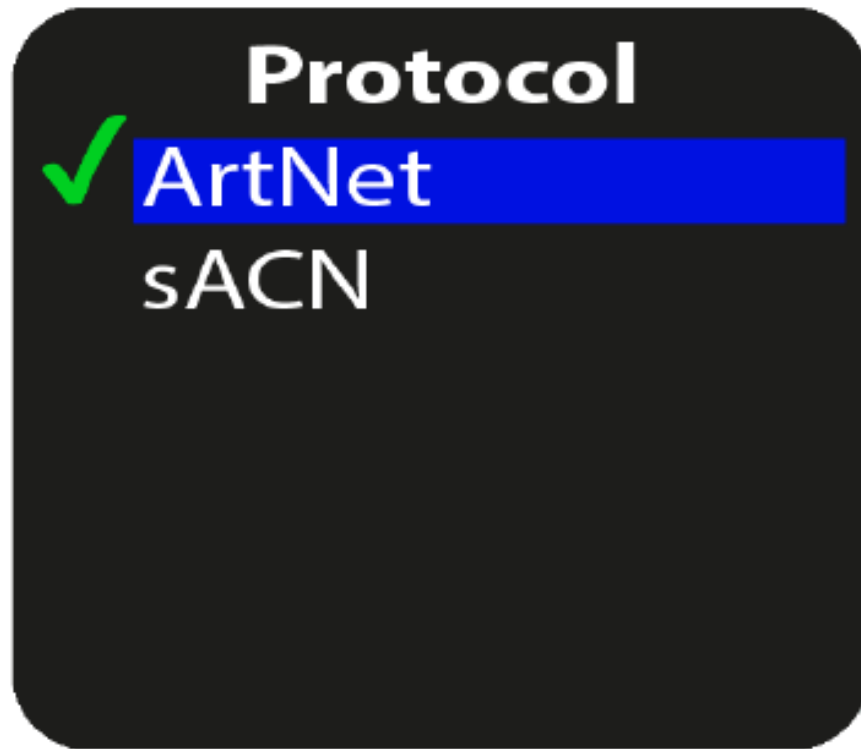**PRIORITY**

- Press <SELECT> to access the Priority submenu.
- Press <UP> or <DOWN> to set desired priority number (0-200).
- Press <LEFT> or <RIGHT> to decline or confirm, <SELECT> to accept.
- When signal is lost for the highest priority port, the DMX signal will be taken from the port with the next highest priority.

PROTOCOL SETUP
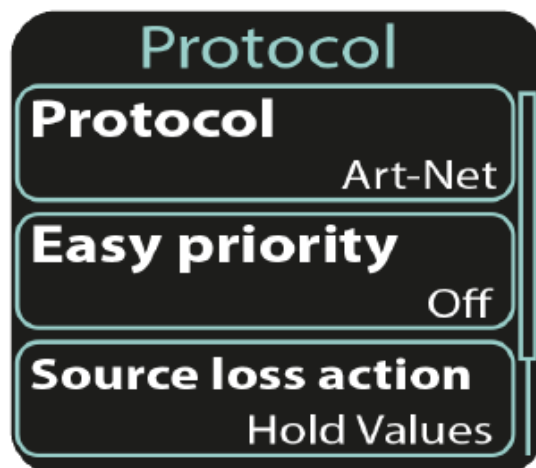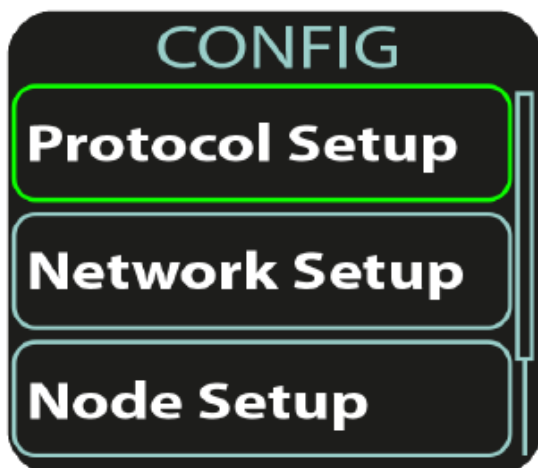
- While in the home screen, press any of directional buttons to activate selection window.
- Navigate selection window to CONFIG and press <SELECT> to access CONFIG submenu.
- Press <SELECT> or <RIGHT> to enter the Protocol Setup submenu or <LEFT> to return to the home screen..

PROTOCOL

- Press <DOWN> or <UP> to choose between ArtNet or sACN lightning protocols.
- Press <SELECT> or <RIGHT> to set or <LEFT> to decline.
- Press <LEFT> to return to the home screen.
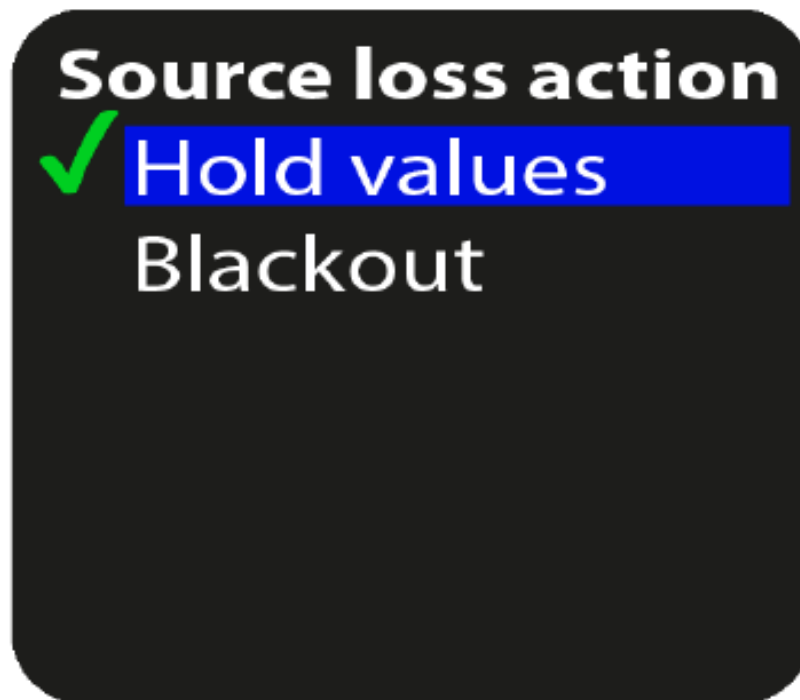
EASY PRIORITY
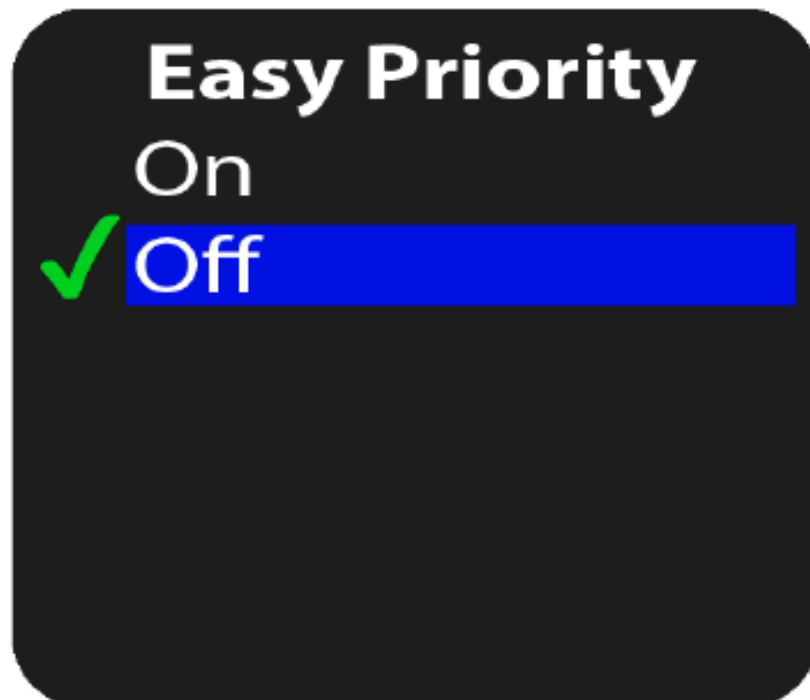
- Press <DOWN> or <UP> buttons to turn the Easy Priority ON or OFF. Press <SELECT> or <RIGHT> to set or <LEFT> to decline.
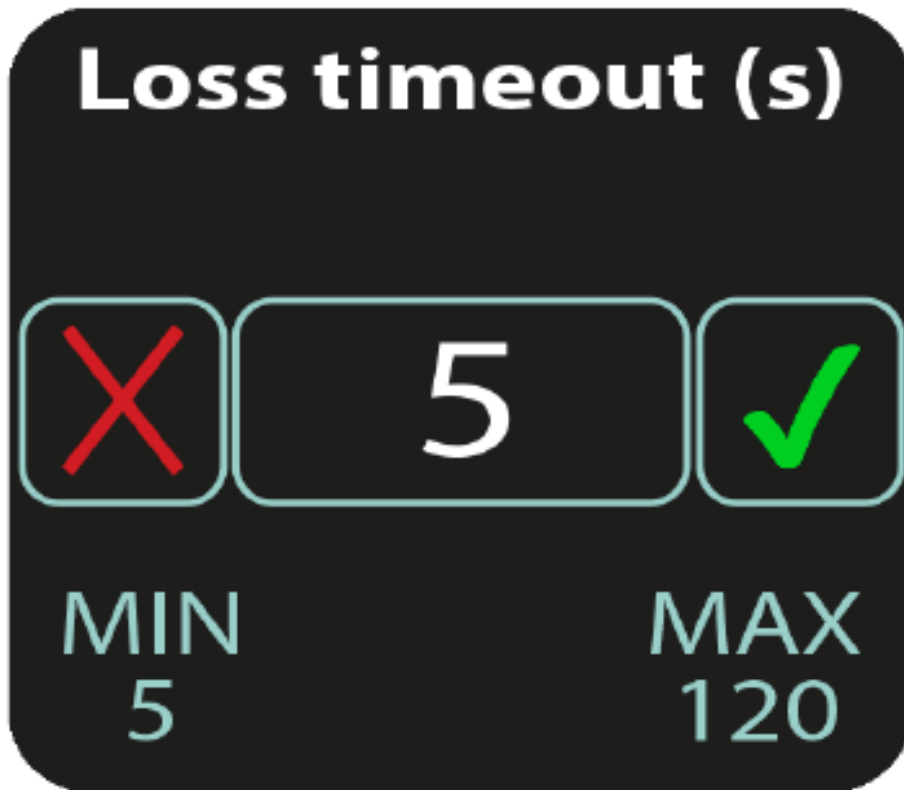
- Press <LEFT> to return to the home screen.

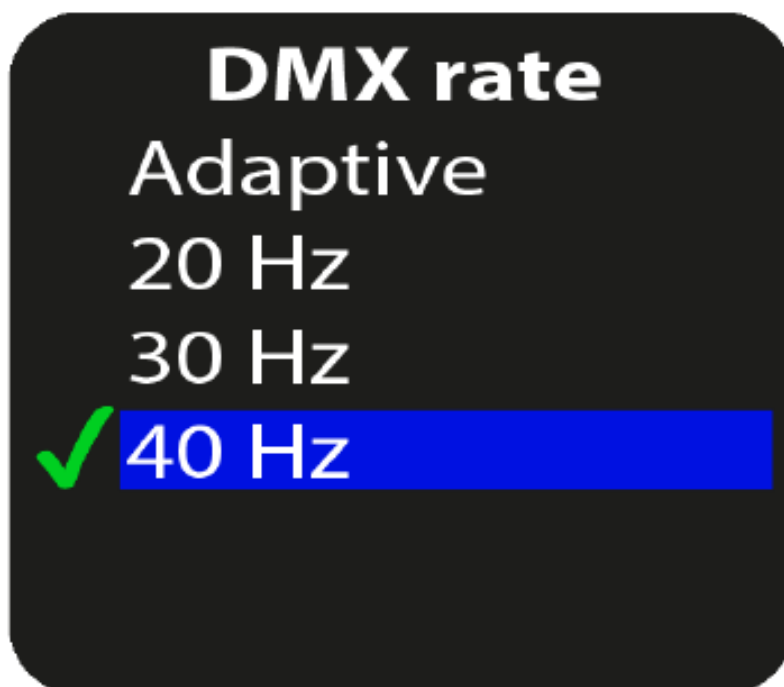**SOURCE LOSS ACTION**

- Press <DOWN> or <UP> buttons to choose what happens if the source is lost.
- Press <SELECT> or <RIGHT> to set or <LEFT> to decline.
- Press <LEFT> to return to the home screen.
- When the "Hold values" (DEFAULT) setting is chosen, after the source DMX is lost, the ProPlex IQ Two 88 2x holds the last DMX values it has received and continues to output these values until incoming DMX has been restored.
- When the "Blackout" setting is chosen, after the source DMX is lost, all DMX values will change to 0 and be held at this value until incoming DMX is restored.

SOURCE LOSS TIMEOUT

- Press <UP> or <DOWN> to set Source loss timeout (5-120s)
- Press <LEFT> or <RIGHT> to decline or confirm, <SELECT> to accept.
- This setting determines how long the IQ Two 2x will wait before using the Source Loss setting. This time is set in seconds (5- 120). Once the source loss timeout time has been reached, the IQ Two will revert to the Source Loss timeout setting

DMX RATE

- Press <DOWN> or <UP> buttons to choose DMX refresh rate value. Press <SELECT> or <RIGHT> to set or <LEFT> to decline.
- Press <LEFT> to return to the home screen.

  The DMX refresh rate setting controls how many times per second the device outputs DMX over 5-pin XLR connectors. Some DMX devices work better using different refresh rate settings. For high-speed devices like LED walls and displays, using the "Adaptive" option can improve response time by matching the incoming refresh rate of DMX
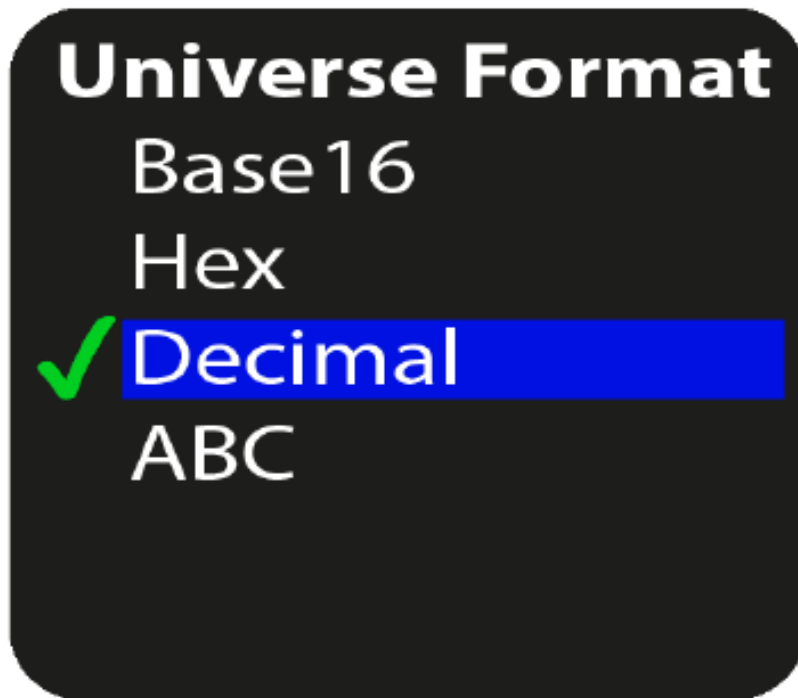
2X IDLE RESEND
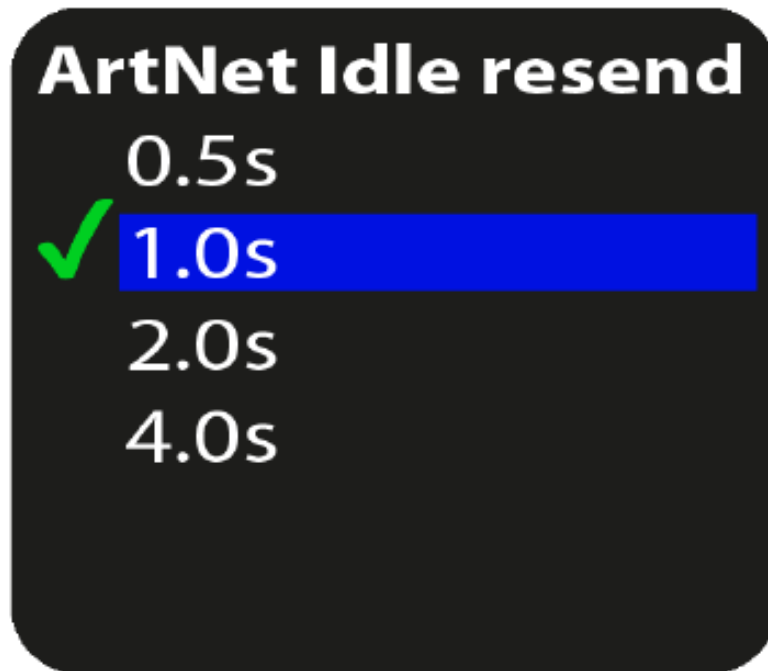
- Press <DOWN> or <UP> to choose 2x Idle respond time (0.5s-4.0s). Press <SELECT> or <RIGHT> to set or <LEFT> to decline.
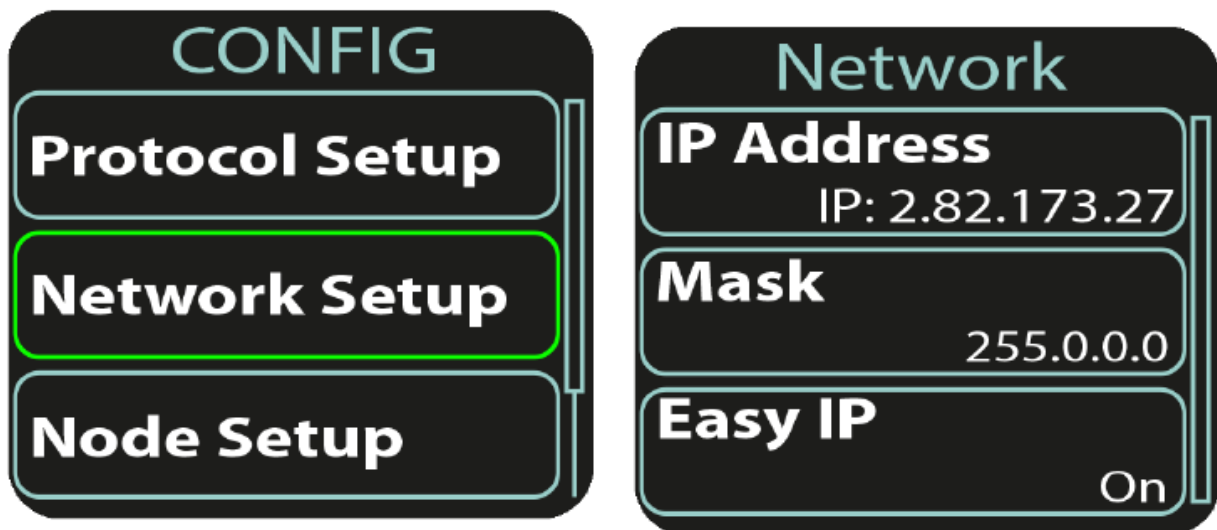- Press <LEFT> to return to the home screen.

  This setting determines the time ArtNet will refresh the signal after idling. Select from 0.5s, 1s, 2s or 4s. This only applies to ProPlex IQ Two DMX connectors set to input mode. Some consoles may not resend a DMX packet if there is no change in the value. ArtNet idle resend time ensures ArtNet regenerates this unchanged value as some devices like media servers and moving light need recurring DMX over ArtNet even if no

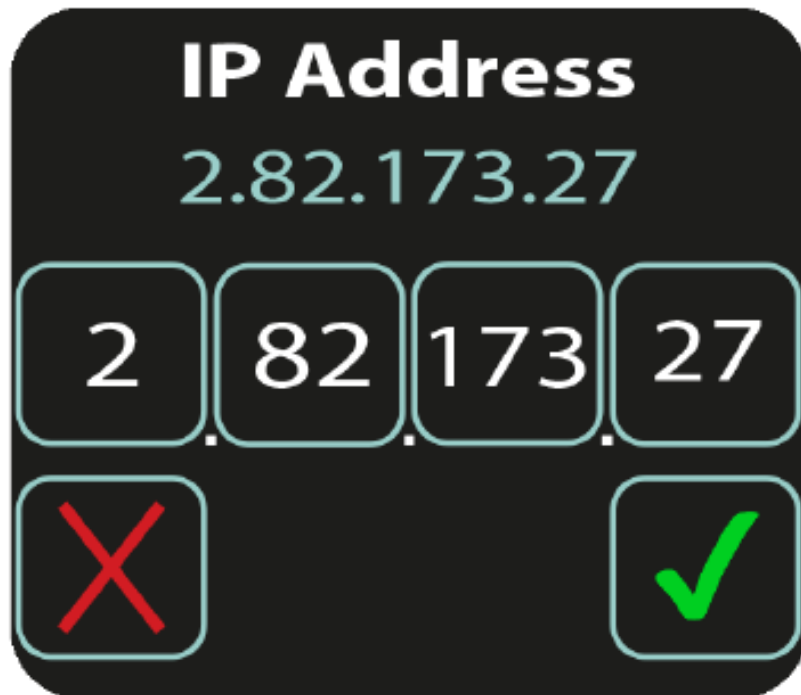**UNIVERSE FORMAT**

- Press <DOWN> or <UP> to choose how Universe format for DMX ports will be displayed at the home screen. Press <SELECT> or <RIGHT> to set or <LEFT> to decline.
- Press <LEFT> to return to the home screen.

NETWORK SETUP

Press <SELECT> or <RIGHT> to enter the Network Setup submenu or <LEFT> to return to the home screen.

IP ADDRESS

- Press <UP> or <DOWN> to change value for each highlighted window. Press <LEFT> or <RIGHT> to navigate selection window.
- Press <DOWN> and then <LEFT> or <RIGHT> to decline or confirm, <SELECT> to accept changes for the IP address.

MASK

- Press <UP> or <DOWN> to change value for each highlighted window. Press <LEFT> or <RIGHT> to navigate selection window.
- Press <DOWN> and then <LEFT> or <RIGHT> to decline or confirm, <SELECT> > to accept changes.
  To change the assigned subnet mask, replace the current network subnet mask with the desired network

subnet mask. NOTE: If Easy IP setting is ON, mask settings cannot be changed.

EASY IP
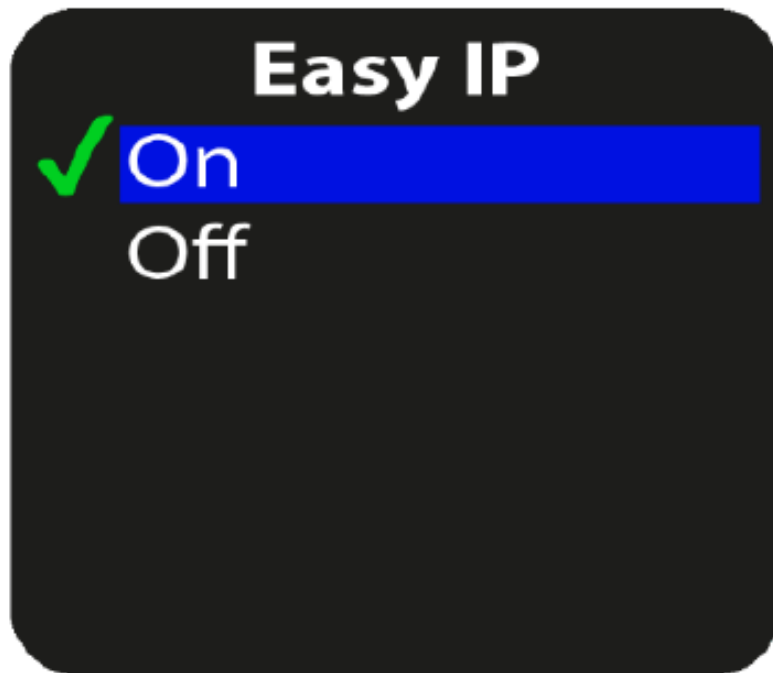
- Press <DOWN> or <UP> to turn the Easy IP ON or OFF.
- Press <SELECT> or <RIGHT> to set or <LEFT> to decline.
- Press <LEFT> to return to the home screen.
  This setting ensures that the software searches for all masks. Subnet mask cannot be changed if Easy IP is on. This setting is very useful for most networking situations where subnet filtering is not required. The IQ Two will automatically find and output ArtNet and sACN information regardless of IP or Subnet Mask settings. Turning off Easy IP is useful when using subnet filtering to help separate different areas of a network when used in conjunction with a managed switch network. An example
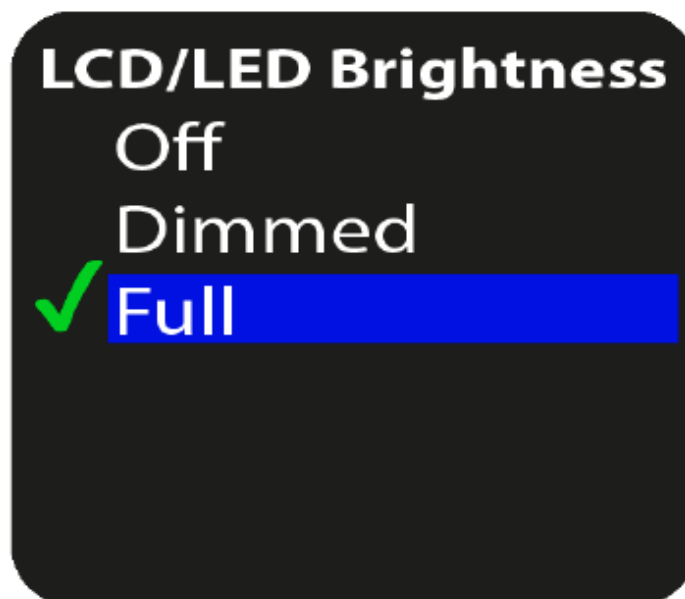
NODE SETUP
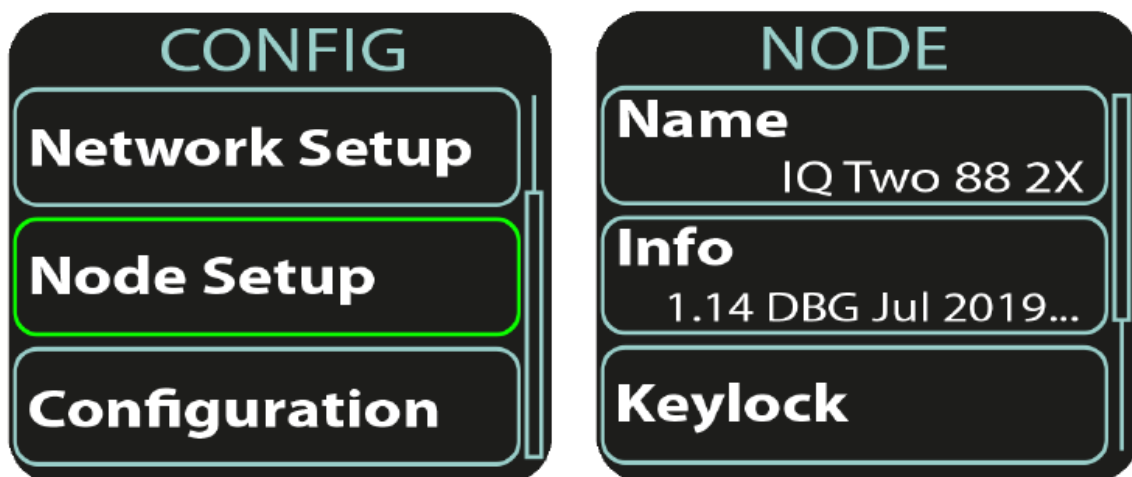
Press <SELECT> or <RIGHT> to enter the Node Setup submenu or <LEFT> to return to the home screen.
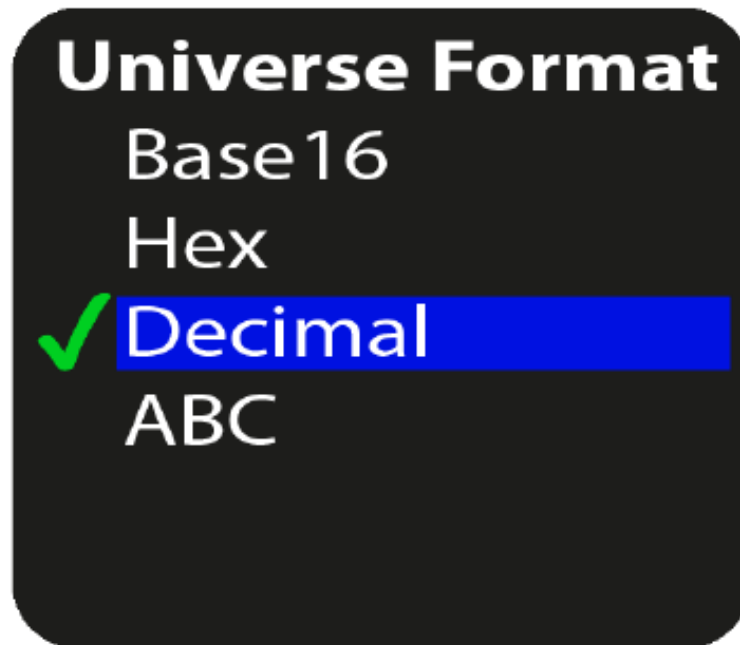
INFO

- Info menu gives the information about the software version currently on the device.
- Press any button to return to NODE submenu.

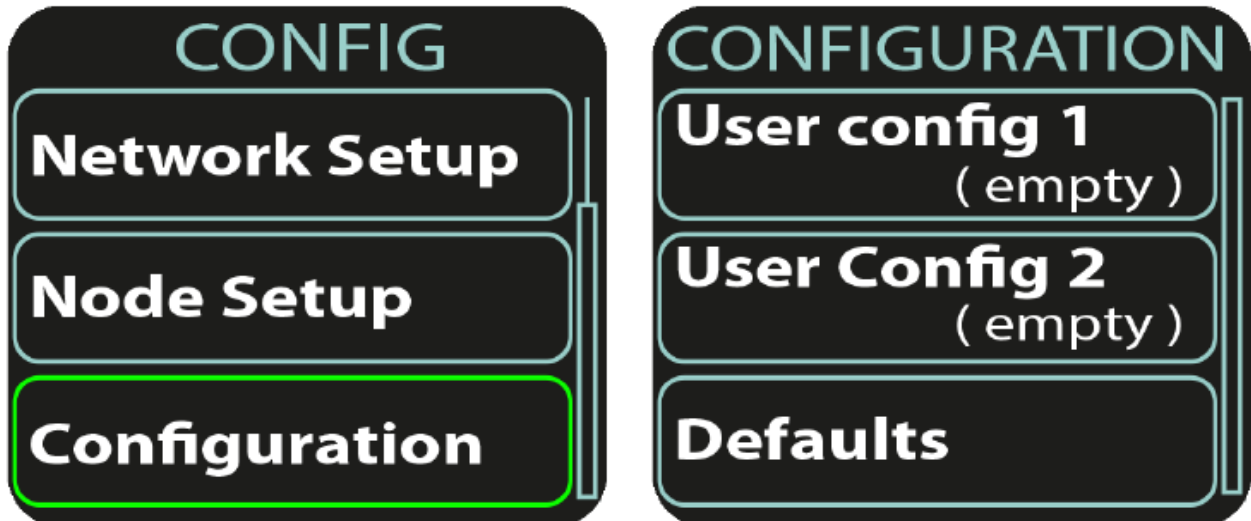**LCD/LED BRIGHTNESS**

- Press <DOWN> or <UP> to choose the brightness of LCD display and LED state.
- Press <SELECT> or <RIGHT> to set or <LEFT> to decline.
- Press <LEFT> to return to the home screen.

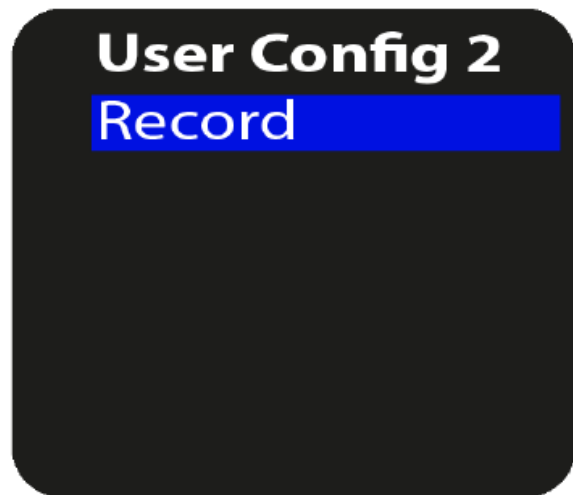**UNIVERSE FORMAT**

- Press <DOWN> or <UP> to choose how Universe format for DMX ports will be displayed at the home screen. Press <SELECT> or <RIGHT> to set or <LEFT> to decline.
- Press <LEFT> to return to the home screen.

CONFIGURATION

Press <SELECT> or <RIGHT> to enter the Configuration submenu or <LEFT> to return to the home screen.
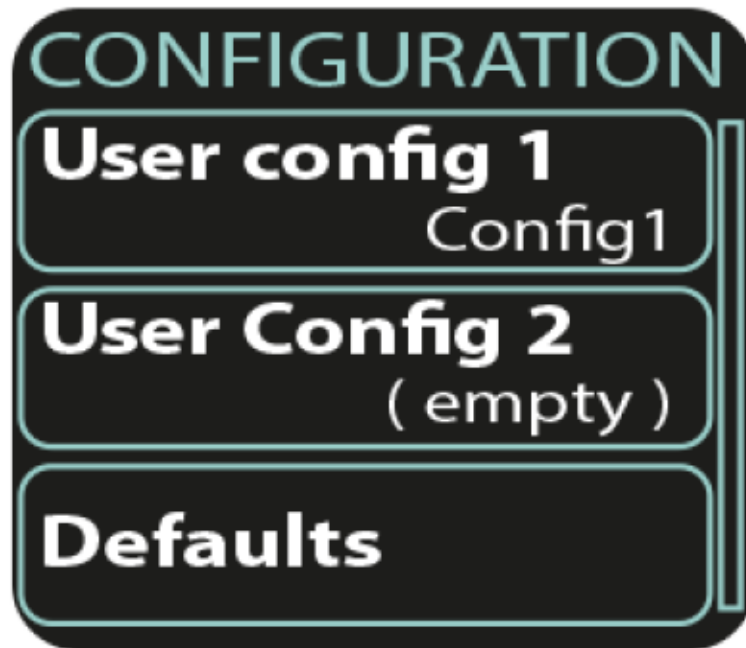
USER CONFIGURATION

- Press <SELECT> or <RIGHT> to record user desired configuration settings. It is possible to save two different configurations.
- Press <SELECT> in order to record the current configuration.
- Press <LEFT> to decline.
- By pressing Record, another window will pop up to confirm or decline recording.

- Navigate to decline by pressing <LEFT> and confirm by pressing <RIGHT>
- Press <SELECT> to confirm or decline changes.
- If the user chooses to record current settings, it will return user to previous window. Recorded configuration is now visible as config 1.
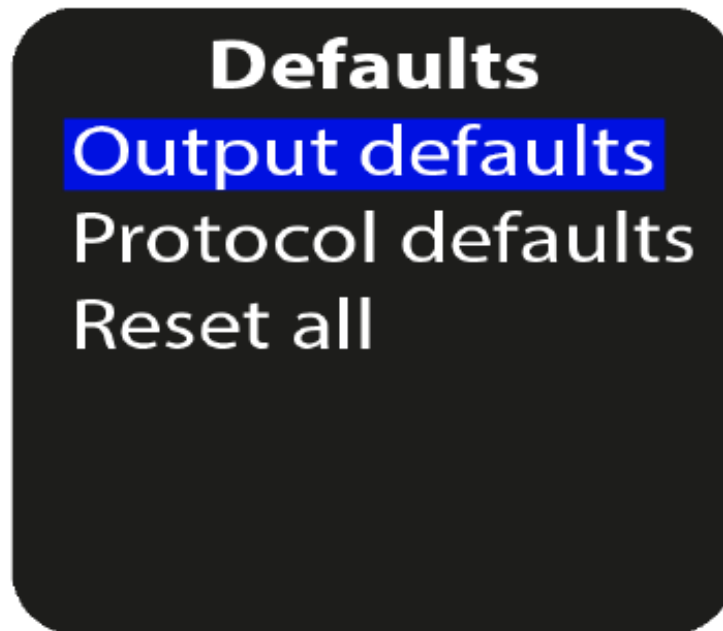
- When recorded, user configuration can be:
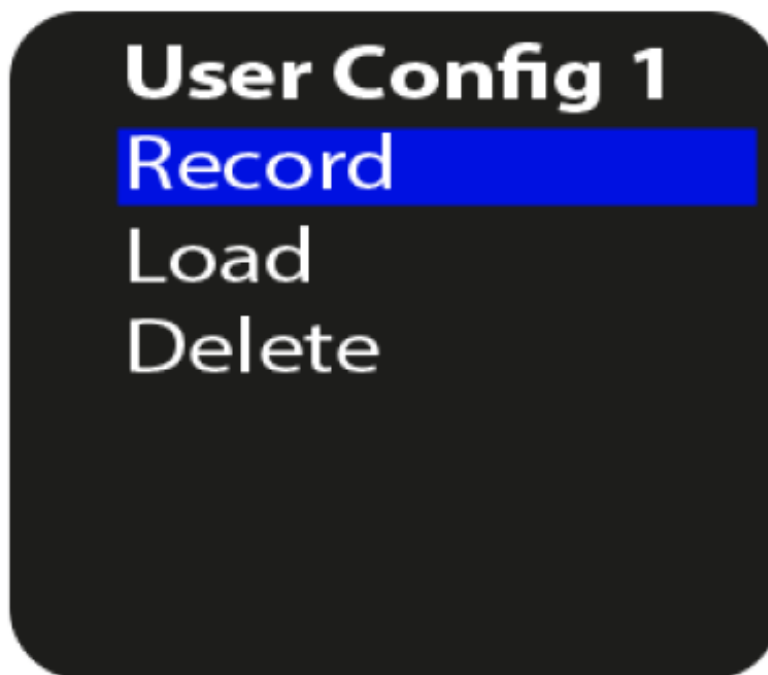
    - Overwritten
    - Loaded
    - Deleted

DEFAULTS

- Press <DOWN> or <UP> buttons to choose default settings for
- Output defaults (will reset all DMX port related settings)
- Protocol defaults (will reset all protocol related settings (sACN/ArtNet settings).
- Reset all values to their default setting.
- Press <SELECT> or <RIGHT> to set or <LEFT> to decline.
- Press <LEFT> to return to the home screen.
- By pressing any of three default settings, another window will pop up to confirm or decline changes. Navigate to decline by pressing <LEFT> and confirm by pressing <RIGHT>.
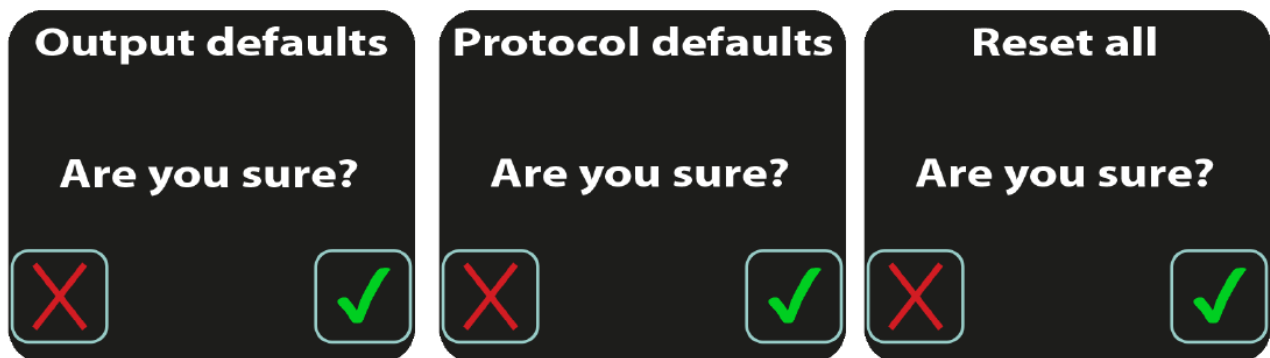
LIMITED WARRANTY

ProPlex Data Distribution Devices are warranted by TMB against defective materials or workmanship for a period of two (2) years from the date of original sale by TMB. TMB's warranty shall be restricted to the repair or replacement of any part that proves to be defective and for which a claim is submitted to TMB before the expiration of the applicable warranty periods.
This Limited Warranty is void if the defects of the Product are the result of:

- Opening the casing, repair, or adjustment by anyone other than TMB or persons specifically authorized by TMB
- Accident, physical abuse, mishandling, or misapplication of the product.
- Damage due to lightning, earthquake, flood, terrorism, war, or act of God.

TMB will not assume responsibility for any labor expended, or materials used, to replace and/or repair the Product without TMB's prior written authorization. Any repair of the Product in the field, and any associated labor charges, must be authorized in advance by TMB. Freight costs on warranty repairs are split 50/50: Customer pays to ship defective product to TMB; TMB pays to ship repaired product, ground freight, back to Customer.

This warranty does not cover consequential damages or costs of any kind. A Return Merchandise Authorization (RMA) Number must be obtained from TMB prior to return of any defective merchandise for warranty or non warranty repair. For all repairs please contact TMB Tech Support Repair using the contact information below or email

TechSupportRepairNA@tmb.com.

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Documents / Resources

ProPlex PPIQB825RR IQ Two 88 2x 8-Way Ethernet DMX Node [pdf] User Manual PPIQB825RR, IQ Two 88 2x 8-Way Ethernet DMX Node, PPIQB825RR IQ Two 88 2x 8-Way Ethernet DMX Node, 8-Way Ethernet DMX Node, DMX Node, Node

References

- **TMB**