



# ProPlex IQ Two 416 USER MANUAL

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### ProPlex IQ Two 416 User Manual

Dataplex--Opto-Splitter-v1.2 Effective 12 September 2020

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# Overview

The ProPlex IQ Two 416 is a 16-way Ethernet-DMX node/opto-splitter with the following features:

- Assign 4 ArtNet/sACN universes to 16 DMX outputs.
- Full RDM functionality.
- RDM Manager software available for system setup and feedback.
- Web interface manage large networks locally or remotely.
- Large touchscreen for quick, easy setup and operation.
- Rugged, tour-ready ProPlex "Blue Box" RackMount chassis.

### Front and Rear Panels 16 x DMX XLR5 16 x selection switchs female ports . (7 0 C 6 0 Ð ° $\frown$ LCD menu touchscreen 16 x data activity LEDs PowerCON IN Ethernet status LEDs ( [ ] )PowerCON through Fuse Ethernet

### ProPlex IQ Two 416 User Manual v1.2–5 February 2021

# Menu Map

Level 1	Level 2	Level 3	Level 4	Notes
Node setup	Node name			Node name
<b></b>		Label		Enter node name label.
	Universe			In this menu you can set the universe
	format			format for your needs.
		Base 16 (0-15)		
		Hex (0-F)		
		Decimal (0-32767)		
	Screen lock time			automatically get locked.
				0- off
		0, 5-600		5- minimum
		-,		600- maximum
				You can adjust I CD and I ED brightness
	brightness			settings for your needs.
		Off		
		Dimmed		
. ↓		Full		
Protocol setup	Protocol			processing protocols.
<b></b>		ArtNet		ArtNet protocol
		sACN		sACN protocol
				If EASY PRIORITY is ON when two or
				more of the same universes are coming
	Easy priority			in to the node, the console with the
				higher channel 512 value will have
				control over the universe.
		Off		
	-	On		
	On source loss			I his setting determines what will happen on source loss
		Hold output		On source loss holds the last received
				DMX values when DMX signal is lost.
		Blackout		After source loss the last value will not
		Didokoul		there is no source
				After source loss the outgoing DMX
		Stop DMX		signal will be disabled
	Source loss			This setting determines after how many
	timeout			seconds will be source loss timeout
		VALUE		
	DMX out refresh rate			The refresh rate for outgoing DMX data (actions per second)
	Tonconnate	Adaptive		Adapts to the input data
		20Hz		Fixed 20Hz refresh rate
		30Hz		Fixed 30Hz refresh rate
		40Hz		Fixed 40Hz refresh rate

IP setup	IP address			Set the IP address of IQ here
1		VALUE		
	Subnet mask			Set the subnet mask of IQ here
		VALUE		
	Easy IP			This setting will ensure that software will search for all masks, not only for a specified subnet mask
Configuration profiles	User cfg. 1 (your name)			User configuration profile 1
Î	Load			Button for loading the configuration settings
		Confirm		
		Retreat		
	Record			Button for recording the configuration settings
		Confirm		
		Retreat		
	Delete			Button for deleting the configuration settings
	_	Confirm		
		Retreat		
	User cfg. 2			Lleer configuration profile 0
	(your name)			Button for loading the configuration
	Load	Oarting		settings
	-	Contirm		
	I	Retreat		Putton for recording the configuration
	Record	0.5		settings
	-			
		Retreat		Dutton for deleting the configuration
	Delete	0.5		settings
	-	Confirm		
•		Retreat		
Defaults	Port defaults	Load		I his setting will restore port defaults
	L		Confirm	
			Retreat	
	Protocol defaults			This setting will restore protocol defaults
		Load		
			Confirm	
			Retreat	
	Touchscreen calibration			Setting in case the touchscreen calibration is needed.
		Reset		
			Confirm	
			Retreat	
	Factory defaults			This setting will restore factory defaults (will reset ALL settings)
		Reset		· · · · · · · · · · · · · · · · · · ·
	L		Confirm	
¥			Retreat	

# Configuration using LCD Touchscreen

ProPlex IQ Two can be configured locally on the unit by using the touchscreen or remotely through the Ethernet port by accessing the built-in web page with a web browser or with the ProPlex IQ RDM Manager software.

Navigation through menus is done using the LCD touch screen.

When the device is turned on, it shows the following welcome screen:



To begin, press anywhere on the screen and a touch screen calibration screen will appear.

The main status screen is displayed, showing the important information about the IQ Two 416 node.



### **Configuration:**

Assigned ID (name) for ProPlex IQ Two fixture Mask Protocol DMX refresh (rate) Easy priority Src loss (source loss)

### Status:

Network (state + information about network speed) Network usage (%) **Outputs:** Information about 4 DMX output groups

### **Configuration:**

Fixture ID: (ProPlex IQ Two 1616 example) DMX refresh: (40Hz example) IP: (2.145.232.108. example; Mask: (255.0.0.0 example) Protocol: ArtNet example)

### Status:

Network: (Link down example, when there is network, it shows the network type, 1G FD (1 Gigabit Full Duplex) for example, and it shows the network usage in percent). Device and version description: (ProPlex IQ Two 1616 v:0.28 example)

### Port information:

Information of all 16 DMX ports, labeled as A, B, C, etc.

If using the ArtNet protocol, the universes start from universe 0. When using sACN, numbering begins with universe 1.

# **General Information**

The ProPlex IQ Two 416 has 2 status LEDs for each DMX port. Each port has an assigned switch defining which universe the port depends on.



Switch ports 1-8 as A port group or B port group outputs Switch ports 9-16 as C port group or D port group outputs.

Because there a maximum of four universes are assignable (one universe for each of four port groups), the device can easily be used as a DMX splitter.

For example, you can use the ProPlex IQ 416 as 2x8 port splitters or 4x4 port splitter.



There are four different port groups: A, B, C and D.



In this example, the ProPlex IQ 416 is set up as four independent splitters.

Ports 1, 2, 3, 4: Assigned to port group B Ports 5, 6, 7, 8: Assigned to port group A Ports 9, 10, 11, 12: Assigned to port group D Ports 13, 14, 15, 16: Assigned to port group C



When using the IQ Two 416 as 2x8-port DMX splitter, the configuration will look like this:

Ports 1, 2, 3, 4, 5, 6, 7, 8: Assigned to port group A Ports 9, 10, 11, 12, 13, 14, 15, 16: Assigned to port group C

# Configuration Menu:

By pressing the "Configuration" button, a new configuration submenu will appear.



There are six pages:

- 1. Node setup
- 2. Protocol setup
- 3. Protocol setup
- 4. IP setup
- 5. Configuration profiles
- 6. Defaults

# Node Setup



### Node name:

Here the node and default names may be changed (ProPlex IQ Two 416 is default).

By pressing this button, a new window will appear:



Using the virtual keyboard, the name can be changed.

By pressing the shift (<u>Level 2 Select key</u>) button on the virtual keyboard, all letters will change to capital letters and symbols will exchange.



### Universe format:

NODE SETUP Node name Universe format Universe format Universe format Base 16 (0-15) Hex (0-F) Decimal (0-32767) Version 0.28

By pressing the "**Universe format**" section, a new window will appear

In this window, choose the universe format. By default, the universe format is set at Hex (hexadecimal) but may be changed to Base 16 or decimal counting system.

### Screen lock time:

By pressing the "Screen lock time" section, a new window will appear.



Screen lock time: This setting will change the time after which the ProPlex IQ Two will lock the screen. Enter a value from 5 to 600 (5 to 600 seconds).

### LCD/ LED brightness:

By pressing the "LCD/ LED brightness" section, a new window will appear.



Select from three settings: OFF, Dimmed, Full.

# **Protocol Setup**



### Protocol:

By pressing the "Protocol" section, a new window will appear.

Protocolu	Data source	
Protocol:	Art-Net	
Artnet Easy priority	sACN	
	Hold output	

Select from two "DMX over Ethernet" protocols: ArtNet and sACN (e1.31).

What is ArtNet and what is sACN?

*ArtNet* is an Ethernet protocol based on the TCP/IP protocol suite. Its purpose is to allow transfer of large amounts of DMX512 data over a wide area using standard networking technology.

*Streaming ACN (sACN)* is a protocol to efficiently transport DMX universes over the network. It is comparable to ArtNet in many aspects. The multicast option allows very easy configuration. sACN is a popular protocol to control large number of RGB LEDs.

Both are Ethernet protocols for sending DMX universes over the network, with a few minor differences. ArtNet allows the user to use the RDM protocol.

When using the sACN protocol, the universe O cannot be used. The system will show a warning sign if the universe O + sACN protocol has been chosen. Also, it is not possible to use RDM functionality when sACN protocol is used.

### ArtNet easy priority:

PROTOCOL SETUP ArtNet easy priority OFF Artnet Easy priority On source loss Hold output Source loss timeout Version 0.28 Off 2/6

By pressing the "ArtNet easy priority" section, a new window will appear.

ArtNet easy priority: ON or OFF.

**Note:** The ArtNet easy priority setting works only when the ArtNet is selected as the data transfer protocol (not sACN).

*What does easy do?* When easy priority is ON, with two or more of the same ArtNet/ sACN universes coming into the ProPlex IQ fixture, the console with the higher channel 512 value will have control over the universe.

### On source loss:

By pressing the "On source loss" section, a new window will appear.



Hold output setting: After source loss there is no action at all, old data remains in output.

**Blackout** setting: After DMX source loss, the last value will not be held and there will be a "blackout" (after delay, drop all DMX channels to 0).

**Stop DMX** setting: After source loss, the DMX signal will be disabled (after delay, stop DMX generation at all – fixtures doesn't see DMX anymore and can react accordingly by themselves).

### Source loss timeout:

 Timeout
 1
 2
 3

 (off: 0 Min:5 Max: 120)
 4
 5
 6

 OK
 7
 8
 9

 CANCEL
  $\leftarrow$  0
  $\cdot$ 

By pressing the "Source loss timeout" section, a new window will appear.

Source loss timeout value: This setting changes the time after which the ProPlex IQ Two will start the blackout or stop DMX output on source loss.

Enter a value from 5 to 120 (5 to 120 seconds).

# **Protocol Setup**



### DMX OUT refresh rate:



By pressing the "DMX OUT refresh rate" section, a new window will appear.

Select one of four states for "DMX out refresh rate": Adaptive, 20Hz, 30Hz, 40Hz).

DMX out refresh rate defines how many times per second the information (DMX data) is sent. For example, when setting is at 40Hz, the color fades will appear more fluid, but it will take more resources from the system than 20Hz setting.

Sometimes this setting is called also FPS (frames per second).

*What is "Adaptive" DMX speed setting?* DMX speed mode that adapts to ArtNet data speed. This is the best way to reduce latency and improve response for very fast effects.

# IP SETUP IP address 2.145.232.108 Subnet mask 255.0.0.0 Easy IP ON Version 0.28 4/6

### **IP** Setup

### IP address:

By pressing the "IP setup" section, a new window will appear.



IP address for the ProPlex IQ may be set.

### Subnet mask:

By pressing the "Subnet mask" section, a new window will appear.



Subnet mask of the ProPlex IQ Two 416 may be set.

To exchange assigned subnetwork mask, replace the current network subnet mask to the desired mask.

NOTE: When Easy IP setting is ON, mask settings may not be changed to custom ones.

### Easy IP:

By pressing the "Easy IP" section, a new window will appear.



This setting ensures that software will search for all masks, not only for a specified one. When Easy IP setting is turned ON, the subnet mask may not be changed.

# **Configuration Profiles**



Configuration must be named in order to save.

Choose configuration to be saved: User cfg. 1 or User cfg. 2.

For example, naming User config. 1 as "Show 1":

x	U	lser coi	nfig. 1 Show	1				\$	oĸ
1	2	3	4	5	6	7	8	9	0
<b>q</b>	w	wertyui							P
	a 💽	5				j			
Û	[ <b>z</b> ]	×	<b>c</b> )	<b>v</b>	b	<b>n</b>	m	,	Ŀ

And User config. 2 as "Amazing show":

x	U	lser co	nfig. 2 Amaz	ing sho	w			¢	oĸ
!	?	#	_	[/	@	-	+		)
Q	W	WERTYUI							
	A) S Z	5 <b>[</b> X	) [ [ [		s F B	i), N	<del>ر</del> س		

Press the "Record" button in order to save the chosen configuration

The previous menu will appear.



Either **load** or **delete** the saved configuration.

By pressing "Load", "Record" or "Delete" buttons, a confirmation window will appear. Press "OK" to confirm or "X" to retreat.



# Defaults

DEFA	ULTS
Port defaults	Load 1
Protocol defaults	Load
Touchscreen calibration	Reset
Factory defaults	Reset D

In this menu the user can load defaults:

Port defaults: Resets all DMX port related settings (configuration as IN/OUT/ RDM settings, etc.)

Protocol defaults: Resets all protocol related settings (sACN/ ArtNet settings).

Touch screen calibration: Opens touch screen calibration menu.

Factory defaults: Resets all settings and restarts the system.

After pressing Load/ Reset buttons, a new confirmation window will appear:



Press "OK" to confirm or "X" to retreat.

# Status menu

View DMX status for four outputs (A, B, C, D).

Select from four outputs (A, B, C, D) by pressing on the icons. The green background of the icon identifies selected output.

Following is an example of port A DMX value status.

The four green bars display the DMX value depending on the DMX value (if DMX value is 255, then the green bar will be full; if DMX value is 0, there will be no green bar).

11	111	21	31	41
<u> </u>	<u>L</u> LLLLLLLL	<u> </u>	երրություն	
51	61	71	81	
LULLLLLLL	երերերերը	լերըըըըըըըը	երերըորը	
		1121	1131	
		LLLLLLLLLL 171	LUUUUUUUU 191	
		EKEREREEK.		الكك والمسمولية أأ
201	211	221	231	
TELEVEL	LEELELE	LEELELEE		
251	261	271	281	291
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301	311	321	331	341
իլիրրորություն	լլլենննննե	իլիսիսիսիսի	երիրորություն	
1351	361	1371	381	391
	PELEEEEEEE	PELELEELEE.		
	THEFT FEFT			
451	461	471	481	491
<b>EXECUTE</b>				
501	511			

In this example, from channel 1 and 3-5, there is 100% value (255), but from channel 6-512 there are no DMX values.

By pressing touch screen once again, a new menu will appear. Here the user can see basic information about the output chosen to view.

Data source	s IP	FPS	sACN	Easy	
Active: 1	2.0.0.3	32 Hz	100	221	A
					B
					(D)

Press the screen once more to return to the main menu.

# OUTPUT configuration menu



Change settings for outputs. For each port the user can assign:

### Universe; RDM (ON or OFF).



Change settings for four output groups: universe, port direction, RDM status, and port priority setting.

Press the up-arrow to switch to the next port setting (e.g., if editing port 1 settings, press this button to switch to port 2).

Press the down-arrow to switch to the previous port settings (e.g., if editing port 2 settings, press this button to switch to port 1).

Press the green (home) button to return to the main menu.

Arrow up Arrow down

### Universe:

Assign the universe for selected DMX port. By pressing this section, a new window will appear.



Set the universe (from 0 to 32767) for the selected DMX port.

### RDM OFF/ON:

Set the RDM settings for selected DMX port.



### What is RDM?

Remote Device Management or RDM is a protocol enhancement to DMX512 allowing bi-directional communication between a lighting or system controller, and attached RDM-compliant devices over a standard DMX line. This protocol allows configuration, status monitoring, and management of these devices in such a way that does not disturb the normal operation of standard DMX512 devices that do not recognize the RDM protocol. (source: http://www.rdmprotocol.org/)

**Note**: Use the RDM when using sACN protocol because sACN doesn't support it. If using sACN and want to RDM functionality, switch to ArtNet for the moment RDM is needed.

### Touch screen calibration

There are two ways to open the touch screen calibration menu:

- 1) When booting up, press anywhere on the "ProPlex IQ Two 416" illustration.
- 2) Open device defaults settings where "touchscreen calibration" reset setting can be seen.



Now press the red dots to calibrate the touch screen. There will be four dots total, one in each corner of the screen. Calibration has been completed when you see the message shown above.

### Unlocking the screen

By default, the IQ Two 416 automatically locks the screen when idle for 60 seconds.

To unlock the screen, press and hold key symbol for four seconds.



## APPENDIX

### Remote Configuration and Monitoring of IQ Nodes

ProPlex IQ Ethernet to DMX nodes can be configured and monitored via two methods: ProPlex Software and via a web browser.

The ProPlex Software is available as a free PC download from <u>www.tmb.com</u>. This software includes a full suite of configuration and monitoring features, and makes managing multiple nodes on a network extremely easy. The Software also includes a RDM management suite for devices connected the IQ nodes or via a ProPlex RDMigo Cable.

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way company (c)	Medant Vades (1)														
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				Sector Contor RDH sICk schole	Anti Anr 7 1 9 0 9 0 10 10 10	2 Aurit Auri 2 2 2 648 04 150 10	Aut M Aut I 1 2 Our Our On Or 10 15	V Part D Part P							
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				11	Next IP	Dece-104	25 49	141	23 M (6)	TUS.	VICTORY	2	Secta	Hole Store	518
			a.	- 1	Direct II	Dame - 154		1 244	57.4m	1125		,	Sec1.6	Mohat	
1000	💦 🍙 🤲	6			Norat II	fare-fit	113	140		Dat	NOTHER	3	Vec18	Restaura	
<b>/</b> 1 <sup></sup> 1				-	5410	Politics Politics 12	1 1	21.0123	HIEW publicities (channel	THE SOLARD -	NUMP OF	1	You 3.30 You 4.0		
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ProPlex IQ Ethernet to DMX nodes can also be remotely configured via their onboard webserver. Using a PC or Mac internet browser, connect to individual IQ nodes by typing their IP address into the internet address bar.

For more information on the ProPlex IQ RDM Manager software, RDMigo Cable, and other ProPlex IQ series products, please visit www.tmb.com

② 2.1.1.22/status.htm						\$	0	0
DATA DISTRIBUTION DEVICES	IQ	Two	410	5				
Status	NAME:							
Node setup	ProPle	x IO Two 416						
Port routing								
Protocol setup	NETWOR	<b>(</b> :						
Configurations		IP:	Mas	k:	м	IAC:		
Firmware upgrade	2.1	.1.22	255.0	0.0.0	3A:1F:34	4:08:54:52		
	PORT ROL	UTING:						
		Direction	Research.	Universe	Designal	RDM		
	Port A	OUT	0:0:0	0:0:0	0	ON		
	Port B	OUT	0:0:1	0:0:1	1	ON		
	Port C	OUT	0:0:2	0:0:2	2	ON		
	Port D	OUT	0:0:3	0:0:3	3	ON		
THE 24/7 Tech Support Hotine - Toll free US/Canada: 1.877.TMB.DUDE (1.872.802.3833)	PROTOCO	eL:						
- Toll free UK: 0800.652.5418 - International: + 1 818.794.1286	Pro	otocol: rt-Net	Easy p	priority:	Art-Net idl	e resend time: 1.0 S		
- Email: <u>techsupport@tmb.com</u> Copyright © <u>THB</u>	Action on Blackout	source loss: t after: 10 S	DMX Ada	rate: aptive	Ea	OFF		
	FIRMWAR	RE VERSION:						
		Master MCU:			Slave MCU:			

### **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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### **Return Procedure**

Please send returned merchandise prepaid and in the original packing. Freight call tags will not be issued for shipping the product to TMB, but TMB will pay the freight for return to the customer. Clearly label package with a Return Merchandise Authorization Number (RMA #). Products returned without an RMA # will delay service. Please contact TMB and request an RMA # prior to shipping the unit. Be prepared to provide the model number, serial number, and a brief description of the cause for the return. Be sure to properly pack the unit; any shipping damage resulting from inadequate packaging is the customer's responsibility. TMB reserves the right to use its own discretion to repair or replace product(s). Proper UPS packing or double-boxing will better ensure product integrity when shipped.

# *Note: If you are given an RMA #, please include the following information on a piece of paper inside the box:*

Your name
 Your address
 Your phone number
 The RMA #
 A brief description of the symptoms

# PROPLEX IQ TWO 416 - TECHNICAL SPECIFICATIONS

### **WEIGHT & DIMENSIONS**

WIDTH	19 ім / 483 мм
DEPTH	8.1ім / 203 мм
HEIGHT	
WEIGHT	9.25гв / 4.2 кд
EIA RACK UNITS	

### POWER

OPERATING VOLTAGE	
Fuse	
Power Consumption	TBD
MAINS CONNECTOR	PowerCon NAC3MPA

### THERMAL

MAXIMUM AMBIENT TEMPERATURE	+40°C
MINIMUM AMBIENT TEMPERATURE	20°C
COOLING	CONVECTION
OPERATING HUMIDITY	

### **CONTROL / PROGRAMMING**

ETHERNET PORTS	
ARTNET/SACN UNIVERSES	4 MAX
DMX Ports.	
DMX CONNECTORS	NEUTRIK XLR-5 FEMALE
DMX Port Isolation	Optical, up to 1000V
ETHERNET CONNECTOR.	NEUTRIK ETHERCON RJ45
NETWORK PROTOCOLS	ARTNET, SACN (E1.31)

### WARRANTY INFORMATION

### TMB 24/7 Technical Support

US/Canada: +1 818.794.1286 Toll Free: 1 877.862.3833 (877.TMB.DUDE) UK: +44 (0)20.8574.9739 Toll Free: 0800.652.5418 e-mail: techsupport@tmb.com