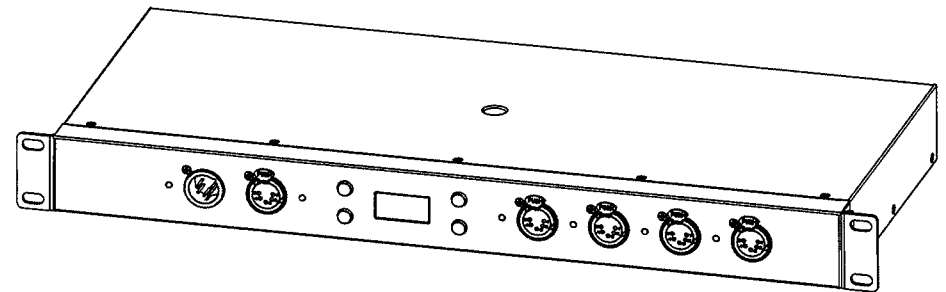


SHOWPRO

Plexus Pro 4&4

Intelligent power and DMX distribution hub



SHOWPRO

www.showtech.com.au

USER MANUAL

EN




WARNING! Before carrying out any operations with the unit, carefully read this instruction manual and keep it with care for future reference. It contains important information about the installation, usage and maintenance of the unit.



SAFETY

General instruction

- The products referred to in this manual conform to the European Community Directives and are therefore marked with CE
- The unit is supplied with hazardous network voltage (230V~). Leave servicing to skilled personnel only. Never make any modifications on the unit not described in this instruction manual, otherwise you will risk an electric shock.
- Connection must be made to a power supply system fitted with efficient earthing (Class I appliance according to standard EN 60598-1). It is, moreover, recommended to protect the supply lines of the units from indirect contact and/or shorting to earth by using appropriately sized residual current devices.
- The connection to the main network of electric distribution must be carried out by a qualified electrical installer. Check that the main frequency and voltage correspond to those for which the unit is designed as given on the electrical data label.
- This unit is not for home use, only professional applications.
- Never use the fixture under the following conditions:
 - in places subject to vibrations or bumps;
 - in places with a temperature of over 40 °C.
- Make certain that no inflammable liquids, water or metal objects enter the fixture.
- Do not dismantle or modify the fixture.
- All work must always be carried out by qualified technical personnel. Contact the nearest sales point for an inspection or contact the manufacturer directly.
- If the unit is to be put out of operation definitively, take it to a local recycling  plant for a disposal which is not harmful to the environment.

Warnings and installation precautions

- If this device will be operated in any way different to the one described in this manual, it may suffer damage and the guarantee becomes void. Furthermore, any other operation may lead to dangers like short circuit, burns, electric shock, etc.
- Before starting any maintenance work or cleaning the projector, cut off power from the main supply.
- Always additionally secure the projector with the safety rope. When carrying out any work, always comply scrupulously with all the regulations (particularly regarding safety) currently in force in the country in which the fixture's being used.
- Install the fixture in a well ventilated place.
- Keep any inflammable material at a safe distance from the fixture.
- Shields, lenses or ultraviolet screens shall be changed if they have become damaged to such an extent that their effectiveness is impaired.
- The lamp (LED) shall be changed if it has become damaged or thermally deformed.
- Never look directly at the light beam. Please note that fast changes in lighting, e. g. flashing light, may trigger epileptic seizures in photosensitive persons or persons with epilepsy.
- Do not touch the product's housing when operating because it may be very hot.

3.3 DMX CONTROL

1-Channel Mode

Channel	Function	Value	Setting
1	Power Output On/Off	000 - 152	No function
		153 - 255	Turn on
		255 - 103	No function
		102 - 000	Turn off

4-Channel Mode

Channel	Function	Value	Setting
1	Power Output 1 On/Off	000 - 152	No function
		153 - 255	Turn on #1
		255 - 103	No function
		102 - 000	Turn off #1
2	Power Output 2 On/Off	000 - 152	No function
		153 - 255	Turn on #2
		255 - 103	No function
		102 - 000	Turn off #2
3	Power Output 3 On/Off	000 - 152	No function
		153 - 255	Turn on #3
		255 - 103	No function
		102 - 000	Turn off #3
4	Power Output 4 On/Off	000 - 152	No function
		153 - 255	Turn on #4
		255 - 103	No function
		102 - 000	Turn off #4

3.2 USING THE FUNCTION MENU

SCHEDULER is able to trigger power on/off for up to 8 different events.

- Select **Event 1-8**
- Choose **On** or **Off**

- Select **Scheduler On/Off**
- Select **On** or **Off**

- Select **Power Output**

To set On and Off delay for all power ports:

- Select **All Power Ports**
 - Select **All Power Ports On**
 - Choose delay time from 0 to 120 seconds

 - Select **All Power Ports Off**
 - Choose delay time from 0 to 120 seconds

To set On and Off delay for individual power ports:

- Select **Unit Power Port**
 - Select desired **Unit Power Port** (1, 2, 3 or 4)
 - Select **Power Port On** (1, 2, 3 or 4)
 - Choose delay time from 0 to 120 seconds

 - Select **Power Port Off** (1, 2, 3 or 4)
 - Choose delay time from 0 to 120 seconds

 - Repeat steps for each individual power port

- Select **Week Setup**
- Choose a day or choose **Everyday**

- Select **Time Setup**
- Enter the hour and minutes

BACKLIGHT sets the delay time (in seconds) before display automatically turns off or sets the display to always On.

INFORMATION displays the total runtime (fixture hours) and current firmware version

DMX ADDRESS sets the DMX starting address

DMX CHANNELS allows selection of either 1-channel or 4-channel mode

TABLE OF CONTENTS**Safety**

General instructions
Warnings and installation precautions
General information

1 Introduction

1.1 Description and Technical specifications

1.2 Maintenance

Cleaning the unit
Trouble shooting

2 Dimensions and Overview**3 Functions and settings**

3.1 Menu Structure
3.2 Function descriptions
3.3 DMX channel chart

Packing content PLEXUS PRO 4&4

• User manual

INTRODUCTION

The PLEXUS PRO 4&4 is an intelligent power and DMX distribution hub with advanced features that facilitate managing power loads and DMX networks.

FEATURES

- Combined power management and DMX distribution solution
- Truss or rack mountable
- 4 individually controllable PowerCon outputs
- 4-port DMX splitter/amplifier
- Three power control modes:
 - DMX
 - Auto-off when no DMX signal detected
 - Scheduled power-downs via internal clock timer

SPECIFICATIONS

Protocol:	DMX
Power management:	DMX and/or calendar scheduled auto on/off
DMX management:	Optically isolated DMX splitter / amplifier
Mains:	100V-240V 50/60 Hz
Consumption:	4.8W
Power connections:	Neutrik PowerCon -- (1) IN / (4) OUT
Data connections:	5-pin DMX -- (1) IN / (4) OUT
DMX modes:	1 or 4 channel
Housing:	Steel
Finish:	Matte black
IP rating:	IP20
Dimensions:	483 x 200 x 45 mm (standard 19" form factor)
Weight:	2.75 KG
Rackspace:	1U

3.2 USING THE FUNCTION MENU

POWER SETUP determines how power output is controlled.

- **Turn Off** turns off all power outputs
- **Turn On** turns on all power outputs
- **On/Off via DMX** enables DMX control of power outputs
- **On If DMX On** auto detects presence/absence of DMX signal to power on/off
- **Scheduler** power output turns on/off per event schedule settings

OUTPUT DELAY creates a delayed power on/off in order to manage power loads.

- All Power Ports** applies settings to all power ports
- Unit Power Port** applies settings to individual power ports

To set On and Off delay for all power ports:

- Select **All Power Ports**
 - Select **All Power Ports On**
 - Choose delay time from 0 to 120 seconds
 - Select **All Power Ports Off**
 - Choose delay time from 0 to 120 seconds

To set On and Off delay for individual power ports:

- Select **Unit Power Port**
 - Select desired **Power Port** (1, 2, 3 or 4)
 - Select **Power Port On** (1, 2, 3 or 4)
 - Choose delay time from 0 to 120 seconds
 - Select **Power Port Off** (1, 2, 3 or 4)
 - Choose delay time from 0 to 120 seconds
 - Repeat steps for each individual power port

DATE AND TIME sets the current date and time, which the Plexus Pro 4&4 will reference in order for the scheduling function to work accurately.

- Select **Clock Setting**
- Enter month, date, year, hour and minutes

3.1 MENU STRUCTURE

Main menu	Options and submenus		Description			
Scheduler	Event 1-8 On/Off	Scheduler On/Off	On Off			
		Activates scheduler for chosen event				
	Power Output	All Power Ports	All Ports On	0-120 S		
			All Ports Off			
		Power Port 1	Power Port 1 On		Assigns ports to turn on/off during event	
			Power Port 1 Off			
		Power Port 2	Power Port 2 On			
			Power Port 2 Off			
		Power Port 3	Power Port 3 On			
			Power Port 3 Off			
		Power Port 4	Power Port 4 On			
			Power Port 4 Off			
		Week Setup	Monday-Sunday Everyday			Assigns days the event will run
		Time Setup	00:00			Sets event start time
Back Light	On		Display backlight always on			
	10S		Display backlight turns off after 10 sec of inactivity			
	20S		Display backlight turns off after 20 sec of inactivity			
	30S		Display backlight turns off after 30 sec of inactivity			
Information	Fixture Hours		Total runtime in hours			
	Version		Installed software version			
DMX Address	1-512		Selects DMX address (highest channel restricted to personality chosen)			
DMX Channels	1CH		1-channel: power port control			
	4CH		4-channel: individual power port control			

- 1.2 - MAINTENANCE

MAINTENANCE AND CLEANING THE UNIT

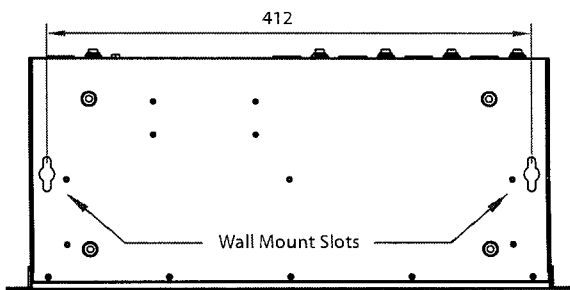
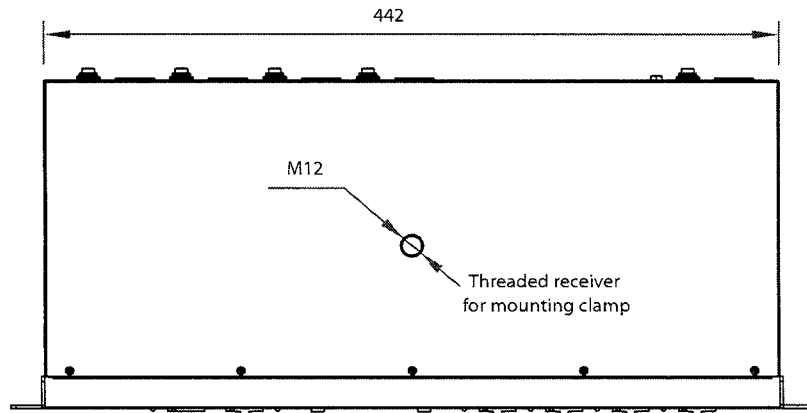
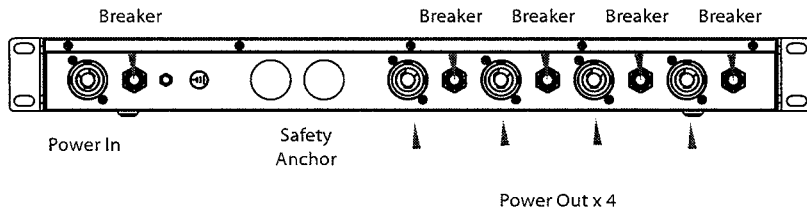
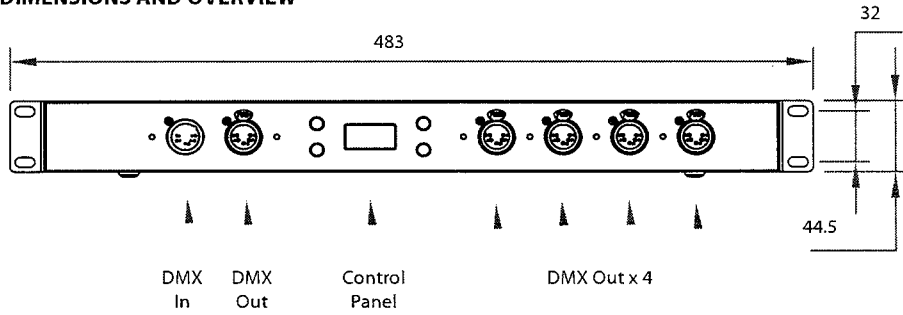
- Make sure the area below the installation place is free from unwanted persons during setup.
- Switch off the unit, unplug the main cable and wait until the unit has cooled down.
- All screws used for installing the device and any of its parts should be tightly fastened and should not be corroded.
- Housings, fixations and installation spots (ceiling, trusses, suspensions) should be totally free from any deformation.
- The main cables must be in impeccable condition and should be replaced immediately even when a small problem is detected.
- It is recommended to clean the front at regular intervals, from impurities caused by dust, smoke, or other particles to ensure that the light is radiated at maximum brightness. For cleaning, disconnect the main plug from the socket. Use a soft, clean cloth moistened with a mild detergent. Then carefully wipe the part dry. For cleaning other housing parts use only a soft, clean cloth. Never use a liquid, it might penetrate the unit and cause damage to it.

GENERAL TROUBLESHOOTING

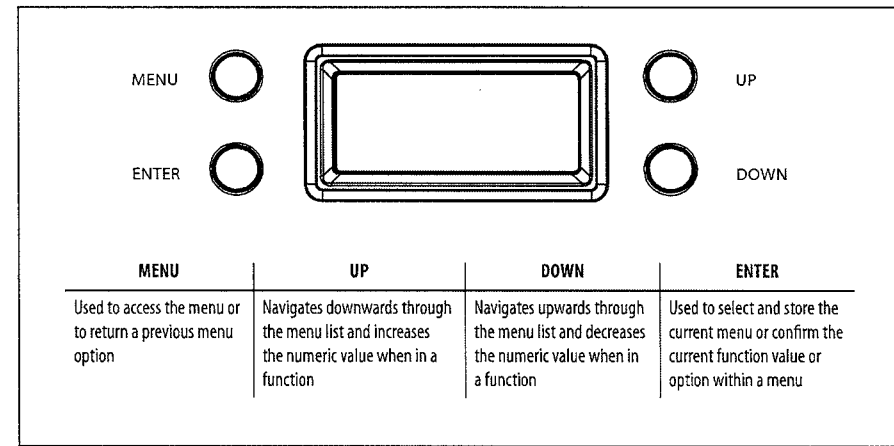
Problems	Possible causes	Checks and remedies
Fixture does not light up	<ul style="list-style-type: none"> • No mains supply • Dimmer fader set to 0 • All color faders set to 0 • Faulty LED • Faulty LED board 	<ul style="list-style-type: none"> • Check the power supply voltage • Increase the value of the dimmer channels • Increase the value of the color channels • Replace the LED board • Replace the LED board
General low light intensity	<ul style="list-style-type: none"> • Dirty lens assembly • Misaligned lens assembly 	<ul style="list-style-type: none"> • Clean the fixture regularly • Install lens assembly properly
Fixture does not power up	<ul style="list-style-type: none"> • No power • Loose or damaged power cord • Faulty internal power supply 	<ul style="list-style-type: none"> • Check for power on power outlet • Check power cord • Replace internal power supply
Fixture does not respond to DMX	<ul style="list-style-type: none"> • Wrong DMX addressing • Damaged DMX cables • Bouncing signals 	<ul style="list-style-type: none"> • Check control panel and unit addressing • Check DMX cables • Install terminator as suggested

Contact an authorized service center in case of technical problems or not reported in the table can not be resolved by the procedure given in the table.

-2- DIMENSIONS AND OVERVIEW



3.1 MENU STRUCTURE



Main menu	Options and submenus		Description	
Power Setup	Turn Off		Turns power output off	
	Turn On		Turns power output on	
	On/Off Via DMX		Turns power on/off thru DMX control	
	On If DMX On		Auto detects DMX signal to power on/off	
	Scheduler		Follows internal clock assigned schedule	
Output Delay	All Power Ports	All Ports On	0-120 S Set time delay before sending power out	
		All Ports Off		
	Unit Power Port	Power Port 1		Power Port 1 On
				Power Port 1 Off
		Power Port 2		Power Port 2 On
				Power Port 2 Off
	Power Port 3	Power Port 3 On		
		Power Port 3 Off		
Power Port 4	Power Port 4 On			
	Power Port 4 Off			
Date & Time	Current Time 12/12/2015 00:00 Clock Setting	12/12/2015 00:00	Sets the current date and time	