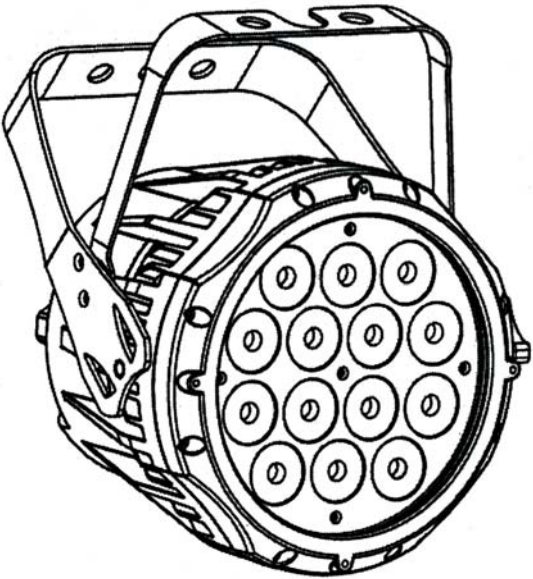


Technical Information

Technical Specifications

Weight & Dimensions	
Length.....	9.6 in (245 mm)
Width.....	9.6 in (245 mm)
Height.....	8.0 in (205 mm)
Weight.....	9 lbs (4.5 kg)
Power	
Auto-ranging.....	100~240 V, 50/60 Hz
Power Consumption.....	52 W (0.44 A) max @ 120 V
Power Consumption.....	52 W (0.23 A) max @ 230 V
Inrush Current.....	0.2 A @ 120 V, 0.4 A @ 230 V
Power Linking.....	12 units max @ 120 V, 24 units max @ 230 V
Connectors.....	NEUTRIK® Power CON
Light Source	
Type.....	3 W50000 hrs, tri-color LEDs
Configuration.....	14 units
Photo Optic	
Luminance @ 2 m (with included 15° degree lenses).....	1,600 lux
Beam Angle (with included 15° degree lenses).....	17°
Field Angle (with included 15° degree lenses).....	32°
Thermal	
Cooling.....	Natural convection
Maximum ambient temperature.....	104° F (40° C)
Control & Programming	
Date input.....	Locking 3-pin XLR male socket
Date output.....	Locking 3-pin XLR female socket
Date pin configuration.....	Pin 1 shield, pin 2 (-) pin 3 (+)
Protocols.....	USITT DMX512-A
DMX Channels.....	3,4,5,10
Ordering Information	
RIO TRI PAR	RIO TRI PAR
Warranty Information	
Warranty.....	2-year limited warranty

RIO TRI PAR



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Technical Information

5. Technical Information

General Maintenance	Download the RIO TRI PAR user manual and refer to its <i>Technical Information</i> chapter for a description on how to troubleshoot and maintain this fixture
	Always dry the external optics and glass surfaces carefully after cleaning them.
	Never spin a fan using compressed air.
Repairs	Download the RIO TRI PAR user manual and refer to its <i>Technical Information</i> chapter for a description on how to troubleshoot this fixture
	If you need help troubleshooting your fixture, contact Technical Support.
Returns Procedure	Download the RIO TRI PAR user manual and refer to its <i>Technical Information</i> chapter for a description on how to return this fixture to RIO TRI PAR.
Claims	Download the RIO TRI PAR user manual and refer to its <i>Technical Information</i> chapter for a description on how to make a claim regarding this fixture if you received it damaged during shipping. For other claims (missing parts, fixture not working, etc., contact RIO TRI PAR Technical Support.

Operation

DMX Values (Cont.)

<i>Arc.1</i>	Channel	Value	Percent/Setting	Function
	1	000 ⇔ 255	0~00%	Red
	2	000 ⇔ 255	0~100%	Green
	3	000 ⇔ 255	0~100%	Blue
<i>Ar1.d</i>	Channel	Value	Percent/Setting	Function
	1	000 ⇔ 255	0~100%	Master Dimmer
	2	000 ⇔ 255	0~100%	Red
	3	000 ⇔ 255	0~100%	Green
<i>Ar1.s</i>	Channel	Value	Percent/Setting	Function
	1	000 ⇔ 255	0~100%	Master Dimmer
	2	000 ⇔ 255	0~100%	Red
	3	000 ⇔ 255	0~100%	Green
<i>HSV</i>	Channel	Value	Percent/Setting	Function
	1	000 ⇔ 255	0~100%	Hue
	2	000 ⇔ 255	0~100%	Saturation
	3	000 ⇔ 255	0~100%	Value



In HSV mode, *Hue* refers to the visible light, such as red, yellow, and cyan, etc. *Saturation* is the dominance of hue in the color; when saturation is at 100%, the color is at its purest, *Value* is the color's brightness when value is at 100%, the color is at its brightest.

Before you Begin

1. Before you Begin

What is included

- RIO TRI PAR
- One power input cord with Edison plug
- One safety cable
- One safety cable
- Warranty Card
- Quick Start Guide

About this Guide

This RIO TRI PAR Start Guide is a condensed version of the RIO TRI PAR user manual, which users can download from the RIO TRI PAR Web site.

Unpacking

Immediately upon receiving a fixture, carefully unpack the carton. Check the contents to ensure that all parts are present, and have been received in good condition. If you have detected a problem, refer to the Claims section in the *Technical information chapter of the RIO TRI PAR use manual for Complete Instructions on how to make a claim.*

Text Conventions

Convention	Meaning
1~512	A range of values
50/60	A set of mutually exclusive values in the text
<i>Claims</i>	A fixture function, a new term, or a section or chapter
<SET>	A key to be pressed on the fixture's control panel
Settings	A menu option
MENU> Settings	A sequence of menu options to be followed
[1~10]	A range of menu values
Yes/No	A set of mutually exclusive menu options
ON	A value to be entered or selected

Icons

Icons	Meaning
	This icon indicates critical installation, configuration or operation information. Failure to comply with this information may render the fixture partially or completely inoperative, damage third-party equipment, or cause harm to the user.
	This icon indicates important installation or configuration information. Failure to comply with this information may prevent the fixture from functioning correctly.
	This icon indicates useful, although non-critical information.



The term "DMX" used throughout this document refers to the USITT DMX512-A transmission protocol.

Before you Begin

Safety Notes Please read the following notes carefully because they include important safety information about the installation, usage and maintenance of this product.



The RIO TRI PAR has no user serviceable parts inside it. Any reference to servicing this fixture you may find within this guide or the downloaded user manual will only apply to properly RIO TRI PAR certified technicians. Do not open the housing or attempt any repairs unless you are one of them.



Please refer to all applicable local codes and regulations for proper installation of the RIO TRI PAR.

Personal Safety

- Avoid direct eye exposure to the light source while the fixture is on.
- Always disconnect the RIO TRI PAR Tour from its power source before servicing.
- The RIO TRI PAR's housing may be hot when operating.

Mounting and Rigging

- This product is for indoor use only! To prevent risk of fire or shock, do not expose this product to rain or moisture.
- Make sure there are no flammable materials close to this product while operating.
- When hanging this fixture, always secure it to a fastening device using a safety chain (included).

Power and Wiring

- Make sure this product's housing or cable are not cracked, crimped or
- Never disconnect this product by pulling or tugging on the power cable.
-

Operation

- Maximum ambient temperature (ta) is 104° F (40° C). Do not operate the fixture at a higher temperature.
- In case of a serious operating problem, stop using this product immediately.



Expected LED Lifespan

In the unlikely event that your RIO TRI PAR may require service, please contact RIO TRI PAR Technical Support.

LEDs gradually decline in brightness over time, mostly because of heat. Packaged in clusters, LEDs exhibit higher operating temperatures than in ideal or singular optimum conditions. For this reason, using all color LEDs at their full intensity significantly reduces the LEDs' lifespan. Under normal conditions, this lifespan can be of 40,000 to 50,000 hours. If extending this lifespan expectancy is vital, lower the operational temperature by improving ventilation and reducing the external temperature, as well as limiting the overall projection intensity.

Operation

TOUR (Cont)

Channel	Value	Percent/Setting	Function				
7 (Cont)	131 ⇄ 140	Custom 2	Programs (Cont.)				
	141 ⇄ 150	Custom 3					
	151 ⇄ 160	Custom 4					
	161 ⇄ 170	Custom 5					
	171 ⇄ 180	Custom 6					
	181 ⇄ 190	Custom 7					
	191 ⇄ 200	Custom 8					
	201 ⇄ 210	Custom 9					
	211 ⇄ 220	Custom 10					
	221 ⇄ 255	No Function					
8	000 ⇄ 255	0~100% (Only when using channel 8)		Auto Speed Adjust			
9	000 ⇄ 009	Preset dimmer speed from display menu			Dimmer Speed		
	010 ⇄ 029	Linear dimmer					
	030 ⇄ 069	Nonlinear dimming curve 1 (fastest)					
	070 ⇄ 129	Nonlinear dimming curve 2					
	130 ⇄ 189	Nonlinear dimming curve 3					
	190 ⇄ 255	Nonlinear dimming curve 4 (slowest)					
10	Value	Setting	Value	Setting	Value	Setting	ID Addressing
	000 ⇄ 009	All IDs	212	ID 23	235	ID46	
	010 ⇄ 019	ID 1	213	ID 24	236	ID47	
	020 ⇄ 029	ID 2	214	ID 25	237	ID48	
	030 ⇄ 039	ID 3	215	ID 26	238	ID49	
	040 ⇄ 049	ID 4	216	ID 27	239	ID50	
	050 ⇄ 059	ID 5	217	ID 28	240	ID51	
	060 ⇄ 069	ID 6	218	ID 29	241	ID52	
	070 ⇄ 079	ID 7	219	ID 30	242	ID53	
	080 ⇄ 089	ID 8	220	ID 31	243	ID54	
	090 ⇄ 099	ID 9	221	ID 32	244	ID55	
	100 ⇄ 109	ID 10	222	ID 33	245	ID56	
	110 ⇄ 119	ID 11	223	ID 34	246	ID57	
	120 ⇄ 129	ID 12	224	ID 35	247	ID58	
	130 ⇄ 139	ID 13	225	ID 36	248	ID59	
	140 ⇄ 149	ID 14	226	ID 37	249	ID60	
	150 ⇄ 159	ID 15	227	ID 38	250	ID61	
	160 ⇄ 169	ID 16	228	ID 39	251	ID62	
	170 ⇄ 179	ID 17	229	ID 40	252	ID63	
	180 ⇄ 189	ID 18	230	ID 41	253	ID64	
	190 ⇄ 199	ID 19	231	ID 42	254	ID65	
	200 ⇄ 209	ID 20	232	ID 43	255	ID66	
	210	ID 21	233	ID 44			
	211	ID 22	234	ID 45			

Operation

DMX Values

TOUR

Channel	Value	Percent/Setting	Function
1	000 ⇔ 255	0~100%	Dimmer
2	000 ⇔ 255	0~100% (Step Time if CUS 01~10 active)	Red
3	000 ⇔ 255	0~100% (Fade Time if CUS 01~10 active)	Green
4	000 ⇔ 255	0~100%	Blue
5	000 ⇔ 005	No Function	Color Macro + White Balance
	006 ⇔ 010	No Function	
	011 ⇔ 030	Red 100%/ Green Up/ Blue 0%	
	031 ⇔ 050	Red Down/Green 100%/Blue 0%	
	051 ⇔ 070	Red 0%/Green 100%/Blue Up	
	071 ⇔ 090	Red 0%/Green Down/ Blue 100%	
	091 ⇔ 110	Red Up/ Green 0%/Blue100%	
	111 ⇔ 130	Red 100%/ Green 0%/ Blue Down	
	131 ⇔ 150	Red 100%/Green Up/Blue Up	
	151 ⇔ 170	Red Down/Green Down/Blue 100%	
	171 ⇔ 200	RGB 100%	
	201 ⇔ 205	White 1: 3,200 K	
	206 ⇔ 210	White 2: 3,400 K	
	211 ⇔ 215	White 3: 4,200 K	
	216 ⇔ 220	White 4: 4,900 K	
	221 ⇔ 225	White 5: 5,600 K	
	226 ⇔ 230	White 6: 5,900 K	
	231 ⇔ 235	White 7: 6,500 K	
	236 ⇔ 240	White 8: 7,200 K	
	241 ⇔ 245	White 9: 8,000 K	
	246 ⇔ 250	White 10 :8,500 K	
	251 ⇔ 255	White 11: 10,000 K	
6	000 ⇔ 010	No Function	Strobe
	011 ⇔ 255	0~20 Hz	
7	000 ⇔ 020	No Function	Programs
	021 ⇔ 030	Auto 1	
	031 ⇔ 040	Auto 2	
	041 ⇔ 050	Auto 3	
	051 ⇔ 060	Auto 4	
	061 ⇔ 070	Auto 5	
	071 ⇔ 080	Auto 6	
	081 ⇔ 090	Auto 7	
	091 ⇔ 100	Auto 8	
	101 ⇔ 110	Auto 9	
	111 ⇔ 120	Auto 10	
	121 ⇔ 130	Custom 1	

(Continues next page)

Introduction

2. Introduction

Fixture at a Glance

Use on Dimmer	⊘	Auto Programs	✓
Outdoor Use	⊘	100~240 VAC, 50/60 Hz Auto-ranging Power Supply	✓
Sound Activated	⊘	Replaceable Fuse	⊘
DMX	✓	User Serviceable	⊘
Master/Slave	✓	Duty Cycle	⊘

Features

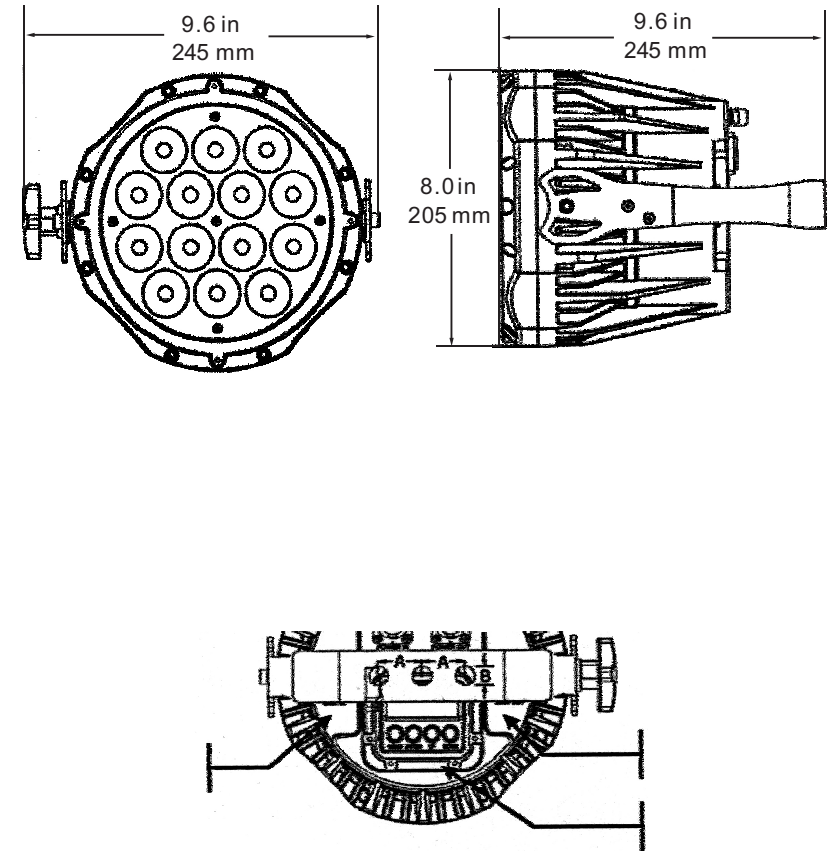
- 3, 4, 5 Or 10-Channel tri-color RGB LED wash light(with ID addressing)
- Operating modes (personalities)
 - 3-channel: RGB control
 - 3-channel: HSV control (hue, saturation and value)
 - 4-channel: RGBW control
 - 4-channel: RGB, dimmer
 - 5-channel: RGBW, dimmer
 - 6-channel: RGBW, dimmer, strobe
 - 11-channel: RGBW, ID, dimmer, strobe, macro, auto/custom, dimmer speed, auto speed
- RGB color mixing with or without DMX controller
- Color temperature presets(3,200~10,000 K)
- Recall custom programs via DMX
- Recall custom programs via DMX

Additional Features

- Five distinct dimming curves
- 3-pin DMX input and output connectors
- Power linking: max 12 units @ 120 V
- LED display with password protection
- Gel frame holder (4 mm max thickness)
- Double-bracket yoke that doubles as floor stand
- NEUTRIK® powerCON connector

Introduction

Product Overview



Operation

Menu Options

Main Level	2nd Level	3rd Level	4th Level	Instructions	
STAT	Red	000~255	N/A	Combine Red , Green, Blue and White to generate a custom color (0~100%) Select the strobing frequency (0~20 Hz)	
	Green				
	Blue				
	Strob				
AUTO	AT 1~10	N/A	N/A	Choose from 10 automatic programs	
	PR 1~10			Choose from 10 customizable programs (Use <i>Edit</i> to customize them)	
Run	DMX/Slave	N/A	N/A	DMX: Works with a DMX controller Slave: Works with a Master or a COLOR-CON	
DMX	D 001~512	N/A	N/A	Set the DMX starting address	
PERS	TOUR	N/A	N/A	10-channel RGB + D + Macros + ID + Strobe	
	Arc.1			3-channel RGB	
	Ar1.d			4-channel RGB + D	
	Ar1.s			5-channel RGB + D + Strobe	
	HSV			3-channel:Hue, Saturation, and Value	
ID	ID 1~66	N/A	N/A	Assign the ID address(1~66) to a fixture	
EDIT	PR 01~10	SC 01~30	Red	0~255	Select the values (0~255) to generate a new color
			Green		
			White		
			Strobe	0~20	Select the strobing frequency (0~20 Hz)
			Time	0~255	Select the scene duration
			Fade	0~255	Select the fading time
SET	UPLD	Password	N/A	Upload the custom programs to another fixture.	
	REST	Password		Perform a factory reset	
	ID	On/Off		Enable or disable ID Addressing	
	COLOR	Off RGBW UC		Enable or disable color calibration functionality	
	Dim	Off		Linear dimmer speed	
		Dim1		Special dimmer speed Dim1 is the fastest dimming curve Dim4 is the slowest dimming curve	
		Dim2			
		Dim3			
		Dim4			
	CAL1	WT 1~11		Red	000~255
Green					
Blue					
CAL2	RGBW	Red	000~255	Set the maximum level of each color (RGB) to determine the resulting white balance when DMX RGB = 255, 255, 255.	
		Green			
		Blue			
KEY	On/Off	N/A	N/A	Enable or disable the password lockout function	