DMX REFERENCE

Comet 228

Comet 288 Proyector PAR con 19 LED de 12W 6 en 1 RGBWA+UV

Triton Blue



Manufacturer	Triton Blue
GDTF file	Triton_Blue_Comet_228_111814.gdtf
GDTF revision	v1_1 · 2025-09-24
Generated	2026-11-24

Contents

1 About this manual 2
2 Quick reference 3
3 Safety instructions 4
4 Product description 5
5 Installation 5
6 Connections 5
7 Operation 6
8 Functions at a glance 6
9 DMX channels 8
Mode 30 CH 8
Mode 12CH 11
10 Technical specifications 12
11 Maintenance and cleaning 12
12 Troubleshooting 13
13 Disposal 13

1 About this manual

This document describes the Comet 288 Proyector PAR con 19 LED de 12W 6 en 1 RGBWA+UV by Triton Blue. It was compiled from the GDTF file Triton_Blue_Comet_228_111814.gdtf from the GDTF-Share library.

File revision: “v1_1”.

The DMX modes, the channel functions and the technical data are given as the GDTF file states them. Installation, operation from the device's control panel, service and safety instructions are described in the manufacturer's original user manual, which takes precedence over this document.

This document was not issued or endorsed by Triton Blue; product names and trademarks belong to their owners.

Safety notices are marked with signal words according to the severity of the hazard: DANGER – an imminent hazard that will result in death or serious injury; WARNING – a potential hazard that could result in death or serious injury; CAUTION – a potential hazard that could result in minor injury or property damage; NOTE – additional information for correct and safe use.

> **NOTE** This product is designed for stage and effect lighting. It is not suitable for household room illumination.

2 Quick reference

Parameter	Value
Weight	2.8 kg
Ingress protection	IP65

DMX modes

Mode	Channels	Units in one universe	First start addresses
30 CH	30	17	1, 31, 61, 91, ...
12CH	24	21	1, 25, 49, 73, ...

No light? Check these channels

- 30 CH: CH 1 Dimmer above 0; CH 2 Shutter at 0–10
- 12CH: CH 1 Dimmer above 0; CH 2 Shutter at 0–10



Read the manual before use



Do not stare into the light

3 Safety instructions



Read the manual before use



Do not stare into the light

⚠ WARNING

- This device is intended for professional use. Installation, connection, setup and maintenance must be carried out only by suitably qualified persons who have read this manual.
- Use the device only for its intended purpose and as described in this manual.
- Do not open the housing and do not modify or tamper with the device. Refer all repairs to an authorized service center.
- Do not use the device if its housing, power or data cable, or a connector is damaged, if the device has been dropped, or if liquid or a foreign object has entered it. In such a case, have it checked by a service center.
- Disconnect the device from the power supply before cleaning, maintenance or any work on the connections.
- After moving the device from a cold to a warm environment, let it reach room temperature before switching it on to prevent condensation inside.
- The device is not a toy; keep it out of the reach of children.

⚠ CAUTION

- The device is rated IP65 and may be used outdoors within the limits of this rating.
- This protection is effective only when all connectors are mated or closed with their protective caps and all seals are intact. Use cables and connectors with the same or a higher protection rating.
- Do not open the housing; opening it breaks the seals and the protection rating can no longer be guaranteed.
- Install the device so that water cannot collect around connectors and cable glands, and inspect seals and cables regularly.

⚠ CAUTION

- This device emits intense light. Do not look directly into the light source or the beam at close range; doing so may damage your eyes.
- Do not aim the beam at the eyes of people or animals at close range, and do not view the light source through optical instruments (binoculars, camera lenses).
- Do not aim the beam at flammable or heat-sensitive materials at close range.

⚠ WARNING

- This device emits ultraviolet (UV) radiation, which can harm the eyes and skin.
- Do not look directly into the light source and avoid prolonged exposure of the eyes and skin at close range. Install the device so that people are not exposed at close range.
- People with increased sensitivity to light, including those taking medication that increases this sensitivity, should avoid UV exposure.

⚠ **CAUTION**

- Strobe and fast flashing light effects can trigger epileptic seizures in susceptible people (photosensitive epilepsy) and can cause nausea or disorientation.
- Inform the audience and performers in advance that strobe effects will be used, for example with a notice at the entrance, and do not use them longer than necessary.

4 Product description

Description in the GDTF file

“Triton Blue Aqua Meteor 336Z Proyector PAR Wash IP65 con 28 LED de 12W 4 en 1 RGBW CON Zoom de 12º a 60º Control Full HD de los LED Fabricado en aluminio muy resistente CTB y CTO, temperatura de color lineal de 2.800 K a 8.000 K Hasta 16,7 millones de colores RGBW con control de saturación total 24.500 Lux (12º) Apertura del haz Zoom de 12º a 26º aportando una luminosidad a 1 m de 27.130 Lux Conectores IP65 PowerCON TRUE 1 REAN (Neutrik Group) UL94 V-0”

5 Installation

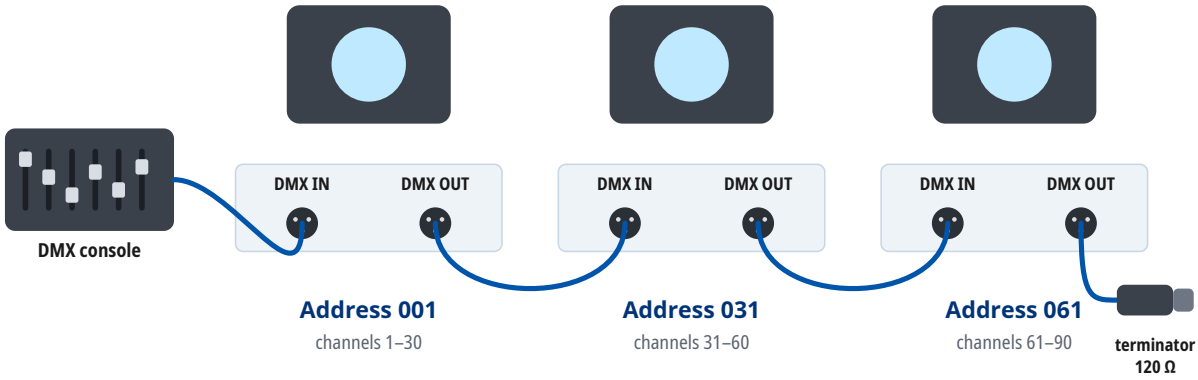
⚠ **WARNING**

- Rigging must be carried out only by qualified persons in accordance with applicable regulations, in particular those for work at height.
- The supporting structure and fixings must safely carry the weight of all suspended devices; verify their load capacity in advance.
- Weight of the device: 2.8 kg.
- Use suitable mounting hardware (for example truss clamps) and tighten all screw connections properly.
- Always secure the suspended device against falling with a safety cable of adequate load capacity, routed through a fixed point of the device and around the supporting structure.
- During installation and removal, keep people out of the area below the work position.
- Regularly inspect the fixings and the safety cable for damage, corrosion and loosening.

6 Connections

- Use shielded cable designed for DMX512 with an impedance of 110 Ω. Ordinary microphone cable is not suitable for DMX, especially over longer distances.
- Connect the devices in a daisy chain: connect the DMX OUT of one device to the DMX IN of the next. Do not split the line with Y-cables or wire it in a star; the line may be split only with a DMX splitter.
- Connect the shield to pin 1 only. Do not connect the shield (ground) to the metal shell of the connector; this can cause short circuits or erratic behavior.
- XLR pin assignment: pin 1 – shield (ground), pin 2 – Data- (Data Complement), pin 3 – Data+ (Data True). On 5-pin connectors, pins 4 and 5 are not connected; a 5-pin connector can be connected to a 3-pin one with a cable adapter.
- Terminate the end of the line (for impedance matching): plug an XLR connector with a 120 Ω, ¼ W resistor between pins 2 and 3 into the DMX OUT of the last device. This reduces the risk of erratic behavior.
- Connect no more than 32 devices to one DMX line. For more devices or longer runs, use a DMX splitter or booster.

DMX line



Mode 30 CH: every unit occupies 30 channels from its address. At most 32 units on one line; for more units or longer runs use a DMX splitter. A 120 Ω terminator closes the last DMX OUT.

7 Operation

Setting the DMX address

- The device occupies as many consecutive channels in the DMX universe as the selected DMX mode uses, starting at the set start address.
- Number of channels occupied in the DMX mode “30 CH”: 30.
- Choose start addresses so that the channels of individual devices do not overlap and the last occupied channel does not exceed 512. Devices with the same start address and mode respond identically.
- For several devices in a row in the DMX mode “30 CH”, you can use, for example, the start addresses 1, 31, 61, 91.
- The DMX mode set on the device must match the fixture profile (personality) used in the controller.

8 Functions at a glance

Functions in each DMX mode

	30 CH 30 channels	12CH 24 channels
Dimmer	1	1
Shutter / strobe	2	2
Color mixing	3–26	3–8
Color temperature	28	10
Effects / macros	27, 29	5 channels (9–24)

Color wheel

1 R:100% G:0-100% B:0%

2 R:100% G:100% B:0%

3 R:0% G:100% B:0-100%

4 R:0% G:100-0% B:100%

5 R:0-100% G:0% B:100%

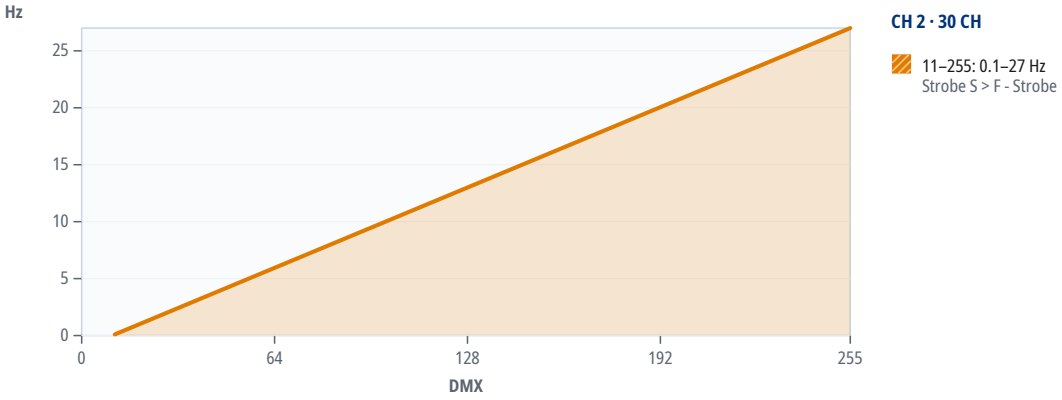
6 R:100% G:0% B:100-0%

7 R:100% G:0-100% B:0-100%

8 R:100% G:100-0% B:100%

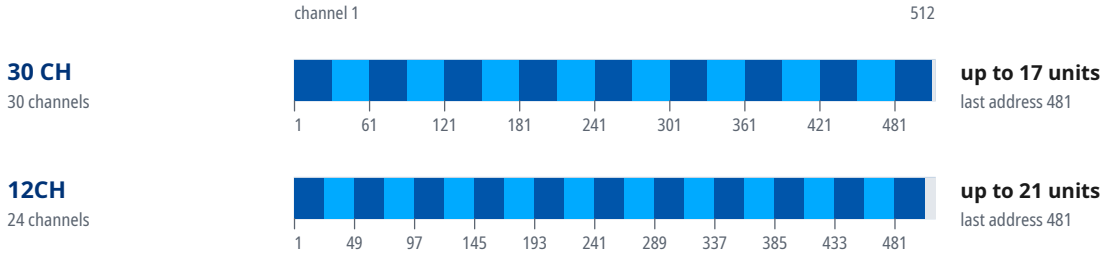
9 RGB:100%

Strobe rate



9 DMX channels

Units in one DMX universe



Start addresses of 20 units in the mode “30 CH”

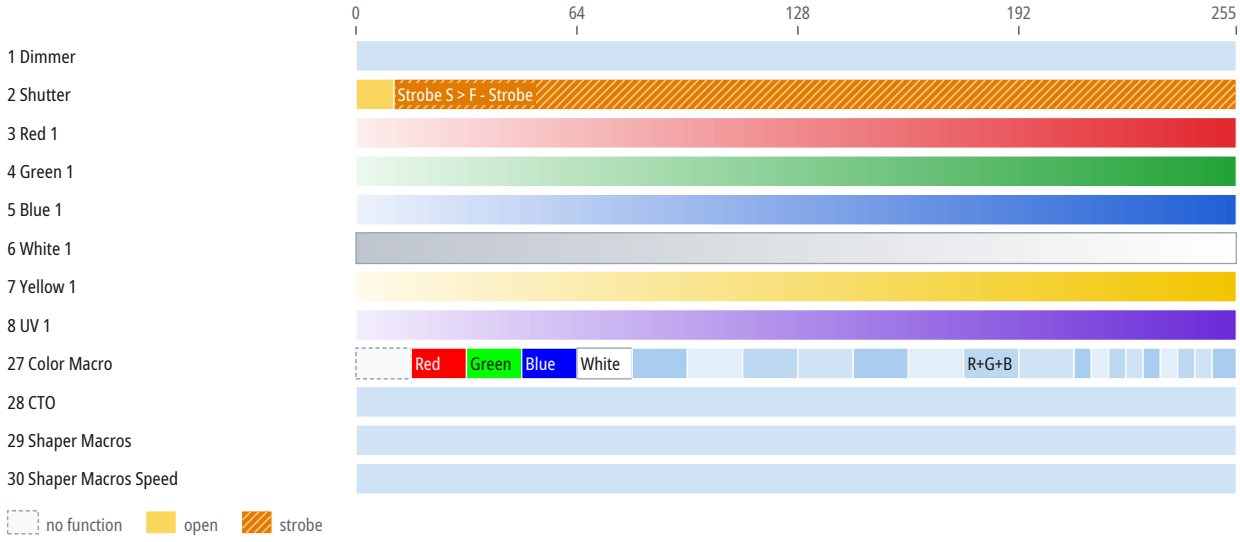
Unit	Start address	Unit	Start address	Unit	Start address	Unit	Start address
1	1	6	151	11	301	16	451
2	31	7	181	12	331	17	481
3	61	8	211	13	361	18	U2 · 1
4	91	9	241	14	391	19	U2 · 31
5	121	10	271	15	421	20	U2 · 61

Where a DMX universe is full, the next units continue in the next universe: “U2 · 1” is address 1 in the second universe, counted from the universe of the first unit.

Mode 30 CH

If the device receives DMX in this mode but gives no light, check these channels: CH 1 Dimmer above 0; CH 2 Shutter at 0–10.

Channel functions at a glance



CH	Function	DMX	Description
1	Dimmer	0–255	
2	Shutter	0–10	Open - Shutter Open
		11–255	Strobe S > F - Strobe (0.1–27 Hz)

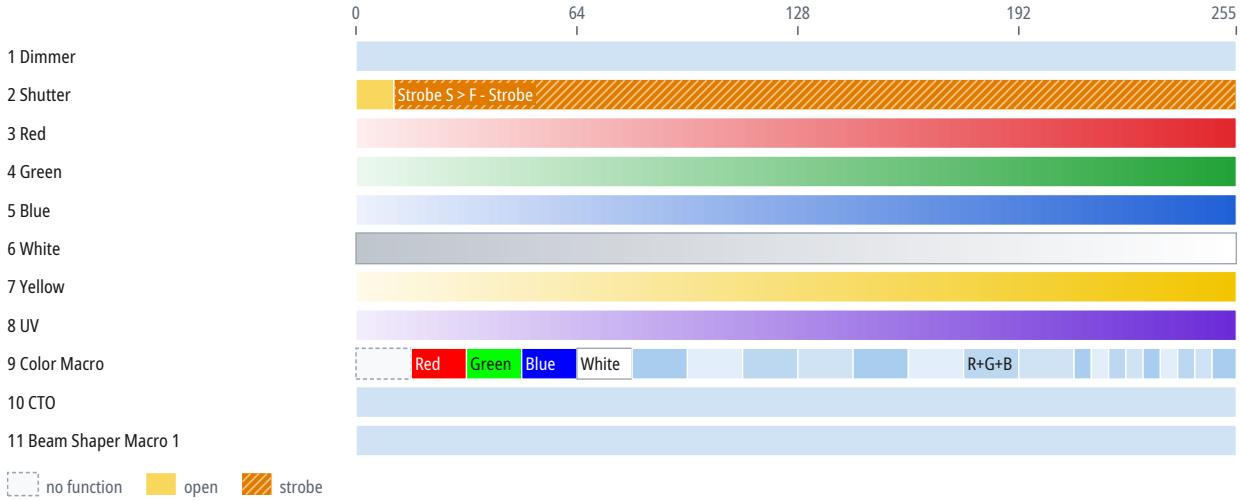
CH	Function	DMX	Description
3	Red 1	0–255	
4	Green 1	0–255	
5	Blue 1	0–255	
6	White 1	0–255	
7	Yellow 1	0–255	
8	UV 1	0–255	
9	Red 2	0	Min
		1–254	Min > Max
		255	Max
10	Green 2	0	Min
		1–254	Min > Max
		255	Max
11	Blue 2	0	Min
		1–254	Min > Max
		255	Max
12	White 2	0–255	
13	Yellow 2	0–255	
14	UV 2	0–255	
15	Red 3	0	Min
		1–254	Min > Max
		255	Max
16	Green 3	0	Min
		1–254	Min > Max
		255	Max
17	Blue 3	0	Min
		1–254	Min > Max
		255	Max
18	White 3	0–255	
19	Yellow 3	0–255	
20	UV 3	0–255	
21	Red 4	0	Min
		1–254	Min > Max
		255	Max
22	Green 4	0	Min
		1–254	Min > Max
		255	Max
23	Blue 4	0	Min
		1–254	Min > Max
		255	Max
24	White 4	0–255	
25	Yellow 4	0–255	
26	UV 4	0–255	

CH	Function	DMX	Description
27	Color Macro	0–15	No Function
		16–31	Red
		32–47	Green
		48–63	Blue
		64–79	White
		80–95	Red+Green
		96–111	Red+Blue
		112–127	Red+White
		128–143	Green+Blue
		144–159	Green+White
		160–175	Blue+White
		176–191	R+G+B
		192–207	R+G+B+W
		208–212	2700K
		213–217	3200K
		218–222	3500K
		223–227	5000K
		228–232	5500K
		233–237	6000K
		238–242	6500K
		243–247	7000K
		248–255	8000K
28	CTO	0–255	
29	Shaper Macros	0–255	
30	Shaper Macros Speed	0–255	

Mode 12CH

If the device receives DMX in this mode but gives no light, check these channels: CH 1 Dimmer above 0; CH 2 Shutter at 0–10.

Channel functions at a glance



CH	Function	DMX	Description
1	Dimmer	0–255	
2	Shutter		Same as CH 2 in the mode “30 CH” (p. 8)
3	Red	0–255	
4	Green	0–255	
5	Blue	0–255	
6	White	0–255	
7	Yellow	0–255	
8	UV	0–255	
9	Color Macro		Same as CH 27 in the mode “30 CH” (p. 10)
10	CTO	0–255	
11	Beam Shaper Macro 1	0–255	
12	Beam Shaper Macro 2	0–255	
18	Beam Shaper Macro 3	0–255	
24	Beam Shaper Macro 4	0–255	

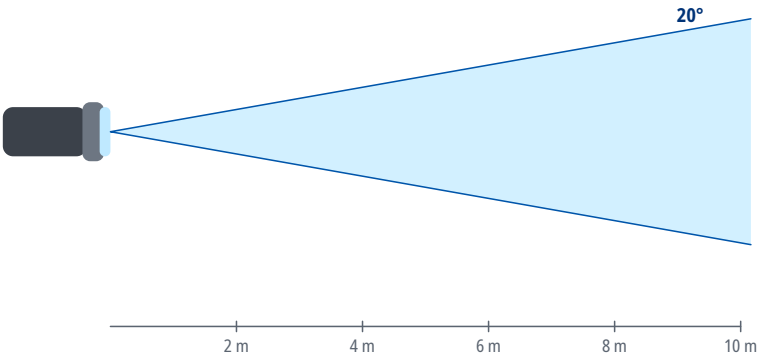
10 Technical specifications

Parameter	Value
Light source	LED
Weight	2.8 kg
Ingress protection	IP65
Meaning of the IP code (IEC 60529)	Dust-tight; protected against water jets
Operating temperature	-20 to 60 °C

Speeds and ranges

Parameter	Value
Strobe frequency	0.1–27 Hz

Spot diameter



Distance	Ø 20°
2 m	0.71 m
4 m	1.4 m
6 m	2.1 m
8 m	2.8 m
10 m	3.5 m
15 m	5.3 m

Spot diameter square to the beam axis, calculated from the beam angle.

11 Maintenance and cleaning

- Before cleaning and maintenance, switch the device off, disconnect it from the power supply and let it cool down.
- Clean the housing with a soft, dry or slightly damp cloth. Do not use solvents, abrasive cleaners or pressure washers, and make sure no liquid gets into the device.
- Clean optical parts (lenses, front glass), if the device has any, with a soft lint-free cloth and a cleaner intended for optics or glass.
- Regularly inspect the housing, cables, connectors and fixings. Have damaged parts replaced by a service center.
- How often to clean depends on the environment; dust, smoke and fog make the device dirty much faster.

12 Troubleshooting

Problem	Remedy
The device does not switch on	Check the supply voltage, the cables and the fuse, if the device has one.
The device does not respond to DMX	Check the start address, the selected DMX mode and whether it matches the profile in the controller, the cable connection to DMX IN, and the controller output (universe).
The device behaves erratically or flickers	Check the terminator at the end of the line, the condition and wiring of the cables (shield on pin 1 only), the number of devices on the line (32 at most), and that the line is not split without a splitter.
Only some devices on the line respond	Check the cable and connectors between the last working and the first non-working device, and make sure all devices on the line are switched on.
Devices respond to the wrong channels or affect each other	Check that the addresses do not overlap and that the DMX mode on the devices matches the patch in the controller.
The device or the connected load does not light up although it receives DMX	Check the values of the dimmer, shutter and strobe channels against the DMX channel table. For the DMX modes for which the sources state it, the chapter DMX channels gives under the mode's heading which channels must be open.

13 Disposal

The crossed-out wheeled bin symbol on the product, in the manual or on the packaging means that the product must not be disposed of with unsorted household waste at the end of its life.

Take the end-of-life equipment to a collection point, for example a municipal collection site or a retailer. Proper disposal enables materials to be recycled and helps prevent possible negative effects on the environment and human health.

Follow the regulations applicable in your country; in the Czech Republic, take-back is governed by Act No. 542/2020 Coll., on End-of-Life Products.

Recycle the packaging materials according to their type.