DMX REFERENCE

Fusion 200 Zoom Spot

Equinox



Manufacturer	Equinox
GDTF file	Equinox_Fusion_200_Zoom_Spot_158203.gdtf
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1 About this manual

This document describes the Fusion 200 Zoom Spot by Equinox. It was compiled from the GDTF file Equinox_Fusion_200_Zoom_Spot_158203.gdtf from the GDTF-Share library.

File revision: “Release 3”.

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 Equinox; 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
Power consumption	850 W
Weight	12.5 kg

DMX modes

Mode	Channels	Units in one universe	First start addresses
Mode 18CH	18	28	1, 19, 37, 55, ...

No light? Check these channels

- Mode 18CH: CH 6 Dimmer above 0; CH 7 Shutter at 251–255


Read the manual before use


Risk of electric shock


Do not stare into the light


Indoor use only

3 Safety instructions


Read the manual before use


Risk of electric shock


Do not stare into the light


Indoor use only

⚠ 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.

⚠ WARNING

- Connect the device only to a properly installed mains outlet with a protective earth (ground) contact. The outlet or other means of disconnection must remain easily accessible.
- Power supply: 100–240 V, 50/60 Hz. Before connecting, make sure that the mains voltage matches this value and the value on the rating plate of the device.
- Do not connect the device to a dimmer or to a dimmed circuit.
- Use only the original power cable or a cable with identical ratings. Protect the cable from damage, do not run it over sharp edges, and never unplug it by pulling on the cable.
- When connecting several devices to one circuit, do not exceed its permitted load.
- Do not touch the device with wet hands.

⚠ WARNING

- This device is designed for indoor use only. Protect it from rain, splashing water, moisture and dust, and do not place containers with liquids on it.
- Do not operate the device in high humidity, near water, or where condensation can form on it.

⚠ 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.

⚠ 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.

⚠ WARNING

- The moving parts of the device (for example the head or arms) can move quickly and unexpectedly at any time – after power-on, during a reset, or on a command from the controller.
- Keep yourself and any objects out of the range of movement. While the device is switched on, do not touch the moving parts, move them by hand, or obstruct their movement; this can cause injury (pinching) and damage the drive.
- Do not carry the device by its moving parts. If the device has a transport lock, engage it before transport and release it before switching on.

4 Product description

Description in the GDTF file

“The Fusion 200 Zoom Spot features a single 200W LED and produces stunning light shows with a motorised zoom from 11°- 25°. Offering 7 colours plus open along with a rotating and static gobo wheel each containing 7 gobos plus open, the fixture is ideal for installation and mobile performers alike. Two bi-directional prisms (6 facet circular and 5 facet linear) further bolster the fixtures comprehensive features and a motorised zoom keeps the gobos razor sharp over any distance. The four button menu and LCD display, along with powerCON and DMX inputs/outputs, further enhance the fixture.”

Range of movement



5 Installation

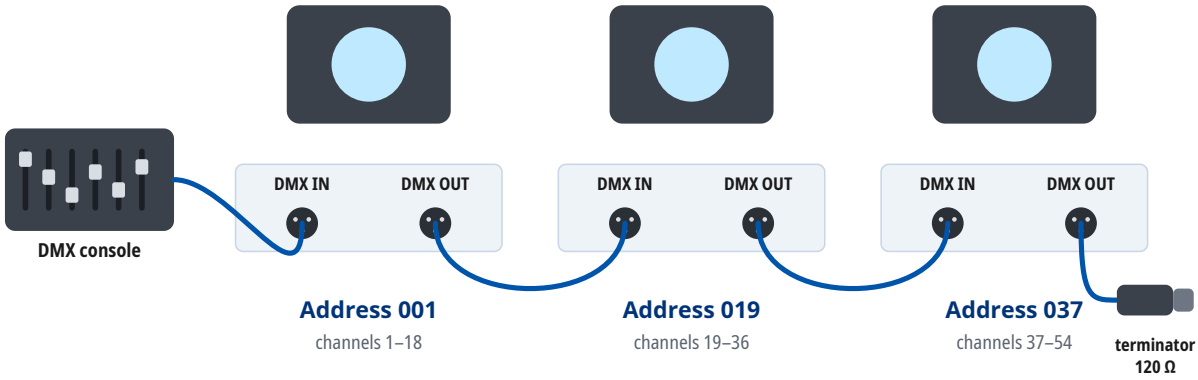
⚠ **WARNING**

- 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: 12.5 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 18CH: every unit occupies 18 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 “Mode 18CH”: 18.
- 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 “Mode 18CH”, you can use, for example, the start addresses 1, 19, 37, 55.
- The DMX mode set on the device must match the fixture profile (personality) used in the controller.

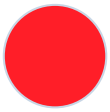
8 Functions at a glance

Functions in each DMX mode

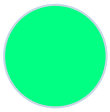
	Mode 18CH 18 channels
Pan / Tilt	1, 3
Dimmer	6
Color wheel	8
Gobo wheel	9, 10
Gobo rotation	11
Prism	14, 15
Zoom	13
Focus	12
Effects / macros	16

Color wheel

1 Color: Open
DMX 0–4

2 
Red
DMX 14–22

3 
Orange
DMX 32–40

4 
Green
DMX 50–58

5 
Blue
DMX 68–76

6
Yellow
DMX 86–94

7 
Cyan
DMX 104–112

8 
Magenta
DMX 122–130

Gobo wheel 1

1 Rotating Gobo: Open
DMX 0–7

2 
Gobo 1
DMX 8–17

3 
Gobo 2
DMX 18–27

4 
Gobo 3
DMX 28–37

5 
Gobo 4
DMX 38–47

6 
Gobo 5
DMX 48–57

7 
Gobo 6
DMX 58–67

8 
Gobo 7
DMX 68–76

9 
Dummy

Gobo wheel 2

1 Static Gobo: Open
DMX 0–7

2 
Gobo 1
DMX 8–17

3 
Gobo 2
DMX 18–27

4 
Gobo 3
DMX 28–37

5 
Gobo 4
DMX 38–47

6 
Gobo 5
DMX 48–57

7 
Gobo 6
DMX 58–67

8 
Gobo 7
DMX 68–78

Prism

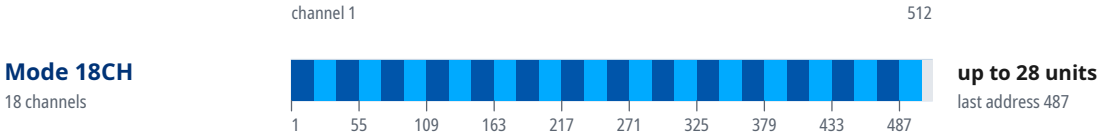
1 No Prism
DMX 0–7

2 
6 facets
Circular Prism
DMX 8–99

3 
5 facets
Linear Prism
DMX 131–255

9 DMX channels

Units in one DMX universe



Start addresses of 20 units in the mode “Mode 18CH”

Unit	Start address	Unit	Start address	Unit	Start address	Unit	Start address
1	1	6	91	11	181	16	271
2	19	7	109	12	199	17	289
3	37	8	127	13	217	18	307
4	55	9	145	14	235	19	325
5	73	10	163	15	253	20	343

Mode 18CH

16-bit parameters use two channels, coarse and fine: value = 256 × coarse value + fine value.

If the device receives DMX in this mode but gives no light, check these channels: CH 6 Dimmer above 0; CH 7 Shutter at 251–255. The GDTF file gives these values for a console's Highlight function: CH 6 Dimmer 255.

Channel functions at a glance



CH	Function	DMX	Description
1	Pan	0–255	540°
2	Pan Fine	0–255	Fine adjustment of CH 1
3	Tilt	0–255	220°

CH	Function	DMX	Description
4	Tilt Fine	0–255	Fine adjustment of CH 3
5	Speed Pan/Tilt	0–255	P/T Speed
6	Dimmer	0–255	
7	Shutter	0–4	LED Off
		5–250	Strobe
		251–255	LED On
8	Colors	0–4	Color: Open
		5–13	Open/Red
		14–22	Red
		23–31	Red/Orange
		32–40	Orange
		41–49	Orange/Green
		50–58	Green
		59–67	Green/Blue
		68–76	Blue
		77–85	Blue/Yellow
		86–94	Yellow
		95–103	Yellow/Cyan
		104–112	Cyan
		113–121	Cyan/Magenta
		122–130	Magenta
		131–139	White
		140–195	Color Scroll CW (720–1 °/s)
		196–199	Color Scroll Stop
		200–255	Color Scroll CCW (1–720 °/s)
9	Gobo	0–7	Static Gobo: Open
		8–17	Gobo 1
		18–27	Gobo 2
		28–37	Gobo 3
		38–47	Gobo 4
		48–57	Gobo 5
		58–67	Gobo 6
		68–77	Gobo 7
		78–87	Gobo 1 Shake S>F
		88–97	Gobo 2 Shake S>F
		98–107	Gobo 3 Shake S>F
		108–117	Gobo 4 Shake S>F
		118–127	Gobo 5 Shake S>F
		128–137	Gobo 6 Shake S>F
		138–147	Gobo 7 Shake S>F
		148–199	Gobo 1 Scroll CW (720–1 °/s)
		200–203	Gobo 1 Scroll Stop

CH	Function	DMX	Description
9	Gobo (continued)	204–255	Gobo 1 Scroll CCW (1–720 °/s)
10	Gobo 2	0–7	Rotating Gobo: Open
		8–17	Gobo 1
		18–27	Gobo 2
		28–37	Gobo 3
		38–47	Gobo 4
		48–57	Gobo 5
		58–67	Gobo 6
		68–76	Gobo 7
		77	Rotating Gobo
		78–87	Gobo 1 Shake S>F
		88–97	Gobo 2 Shake S>F
		98–107	Gobo 3 Shake S>F
		108–117	Gobo 4 Shake S>F
		118–127	Gobo 5 Shake S>F
		128–137	Gobo 6 Shake S>F
		138–147	Gobo 7 Shake S>F
		148–199	Gobo Wheel Scroll CW (720–1 °/s)
		200–203	Gobo Wheel Scroll Stop
		204–255	Gobo Wheel Scroll CCW (up to 720 °/s (120 rpm))
11	Gobo 2 Rotation Speed	0–7	No Function
		8–129	Gobo Rot CW F>S (720–1 °/s)
		130–133	Gobo Rot Stop
		134–255	Gobo Rot CCW S>F (1–720 °/s)
12	Focus	0–255	FOcus
13	Zoom	0–255	11–25°
14	Prism	0–7	No Prism
		8–99	Circular Prism
		100–130	No Prism
		131–255	Linear Prism
15	Prism Rotation Speed		Prism Rotate
		0–7	No Function
		8–129	Prism Rotate CW (720–1 °/s)
		130–133	Prism Rotate Stop
		134–255	Prism Rotate CCW (1–720 °/s)
16	Effects	0–255	
17	Video Sound Volume 1	0–255	
18	Lamp Control	0–255	

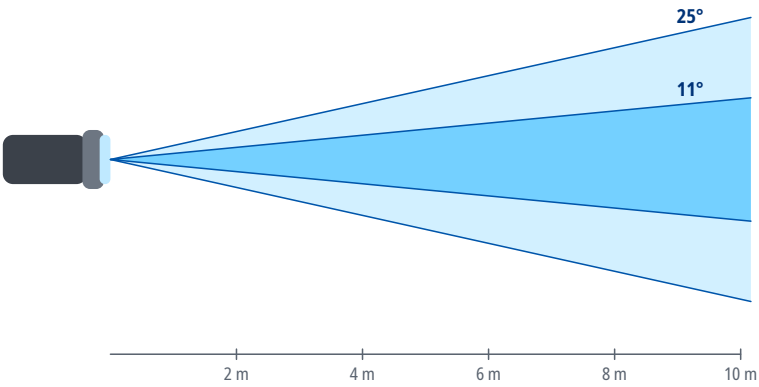
10 Technical specifications

Parameter	Value
Light	
Light source	LED
LED power	700 W
Luminous flux	1,000 lm
Color temperature	6,000 K
Color rendering index (CRI)	85
Optics	
Zoom	11–25°
Movement	
Pan	540°
Tilt	220°
Control	
DMX connection	3-pin XLR IN/OUT
Electrical	
Power supply	100–240 V, 50/60 Hz
Power consumption	850 W
Power connectors	powerCON TRUE1 IN/OUT
Dimensions and construction	
Weight	12.5 kg
Operating environment	
Operating temperature	0 to 40 °C

Speeds and ranges

Parameter	Value
Color wheel rotation	up to 720 °/s (120 rpm)
Gobo wheel 1 rotation	up to 720 °/s (120 rpm)
Gobo wheel 2 rotation	up to 720 °/s (120 rpm)
Gobo 1 rotation	up to 720 °/s (120 rpm)
Prism rotation	up to 720 °/s (120 rpm)

Spot diameter



Distance	Ø 11°	Ø 25°
2 m	0.39 m	0.89 m
4 m	0.77 m	1.8 m
6 m	1.2 m	2.7 m
8 m	1.5 m	3.5 m
10 m	1.9 m	4.4 m
15 m	2.9 m	6.7 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.
Movement is reversed	Check whether Pan/Tilt inversion is enabled in the device menu or in the controller.
Moving parts do not reach the correct position after power-on or transport	Switch the device off and on again to reset the position, and make sure the transport lock, if any, is released. If this does not help, contact a service center.
Movement is jerky	Check the value of the Pan/Tilt speed channel, if the device has one, and the stability of the DMX signal.

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.