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WasherFX 900

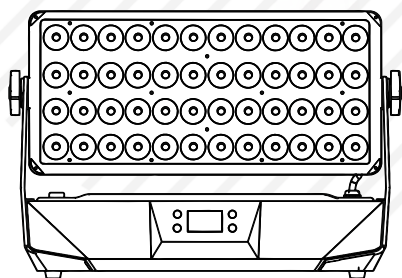
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Manual



KEEP THIS MANUAL FOR FUTURE REFERENCE



WasherFX 900

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INTRODUCTION

We are glad that you have chosen the Flash EVENT WasherFX 900, thereby expanding your lighting equipment inventory. We hope that this device will meet your expectations and inspire creativity in your future lighting projects.

**FOR SAFETY REASONS AND TO ENSURE TROUBLE-FREE OPERATION,
PLEASE READ THIS MANUAL CAREFULLY.**

SAFETY INFORMATION



WARNING! Exercise particular caution during operation. Dangerous voltage is present inside the device – contact with wires may result in serious electric shock.

To ensure safe and long-term operation, the user must strictly follow all safety instructions and warnings contained in this user manual.



IMPORTANT! Damage caused by failure to follow this user manual is not covered by the warranty. The manufacturer and dealer shall not be liable for any resulting defects or problems.

If the product has been exposed to extreme or unstable temperature conditions (e.g., during transportation), do not switch it on immediately. Condensation caused by temperature changes may damage the device. Allow the product to reach ambient temperature before use.



IMPORTANT! This product can be operated within a voltage range of 100–240 V and is intended for outdoor use. Ensure that the supply voltage does not exceed the permissible range. The power plug must be connected to a mains socket equipped with protective earthing (Class I protection, PE conductor). Green or green-yellow conductors must be properly grounded.

Regularly inspect the power cable. Ensure that it is not bent, damaged, or improperly connected. Exercise particular caution when connecting the power supply and wiring. Disconnect the device from the power supply when not in use or before cleaning.



WARNING! Operate the device only when it is placed on a stable surface or securely mounted. An unsecured device may move or fall, causing injury or damage.

WARNING! Appropriate mounting hardware must be used during installation. Ensure that all brackets and mounting elements are properly tightened and suitable for the load.

WARNING! When installing the device overhead, an additional safety attachment (e.g., safety cable) must always be used. The safety cable must be capable of supporting at least 10 times the weight of the device.

WARNING! Do not look directly into the light source during operation, as this may cause eye injury.



IMPORTANT! Do not expose the device to strong external light sources, as intense illumination may interfere with operation or damage display elements or sensors.



WARNING! Do not connect the device to dimmer packs or any power control systems not intended for this device.

IMPORTANT! Before first use, carefully unpack the device and check for any damage caused during transportation. If any damage is detected, do not operate the device and contact an authorized service center.



WARNING! In the event of malfunction, immediately stop using the device. Do not attempt to repair the device yourself. Repairs must be carried out only by qualified personnel using original spare parts.

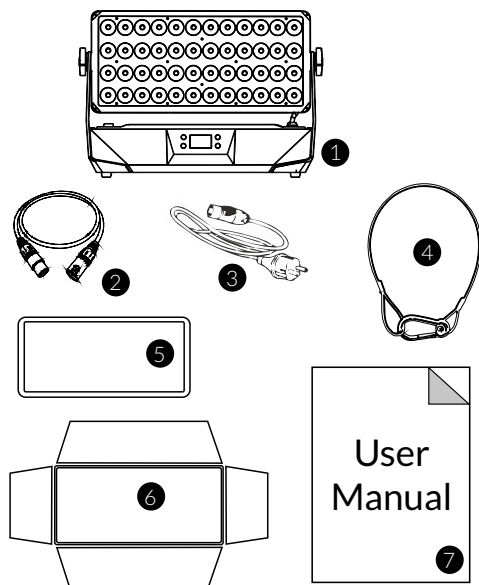
IMPORTANT! Disconnect the device from the power supply before performing any maintenance or service work. The device contains no user-serviceable parts.



IMPORTANT! The maximum ambient temperature is 40°C. Do not operate the device in environments where the temperature exceeds this value.

WARNING! Do not modify the device. Unauthorized modifications may result in damage not covered by the warranty and may lead to hazards such as short circuits, burns, or electric shock.

UNPACKING



The following item
are included in the box:

- ① EVENT WasherFX 900 (1pc)
- ② DMX cable (1pc)
- ③ TrueCON cable (1pc)
- ④ Safety cable (1pc)
- ⑤ FROST Filter (1pc)
- ⑥ Barn door (1pc)
- ⑦ User Manual (1pc)

INSTALLATION

WARNING! The device must be installed outside areas of pedestrian traffic, seating areas, and out of reach of unauthorized persons.

WARNING! Before installation, verify that the mounting surface or supporting structure is capable of bearing a minimum static load of at least 10 times the weight of the device.

WARNING! The device must always be secured with an additional independent safety attachment (secondary safety), such as a certified safety cable.

WARNING! It is strictly prohibited to stand under the installation area during installation, removal, or servicing of the device.

IMPORTANT! The minimum distance between the device and flammable materials must be at least 0.5 m.

WARNING! Overhead installation may only be carried out by qualified personnel with appropriate experience, including:

- calculation of static and dynamic loads,
- selection of appropriate mounting hardware,
- assessment of the supporting structure,
- periodic inspection of the installation.

Improper installation may result in serious injury or death.

CAUTION! Before applying power, ensure that all mounting elements are properly installed, secured, and checked.

Clamp Mounting

CAUTION! Only mounting hardware with appropriate load capacity and intended for this type of installation may be used.

The device is equipped with an integrated mounting system consisting of the base, an "Omega bracket," and a dedicated rigging point for secondary safety attachment.

When mounting the device to a truss, secure an appropriate clamp to the "Omega bracket" using an M10 screw inserted through the central mounting hole.

IMPORTANT! If any slack is detected between the hook and the device, immediately tighten the mounting screws or skip the device during installation.

WARNING! Regardless of the chosen mounting method, the device must always be secured with a safety cable.

The safety cable must be attached exclusively to the designated rigging point provided by the manufacturer. It is prohibited to attach the safety cable to non-designated parts such as carrying handles.

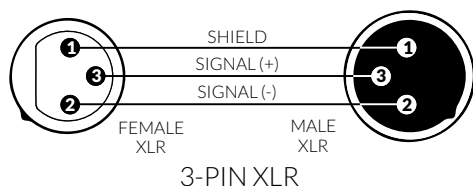
WARNING! The safety cable must be rated to support at least 10 times the weight of the device.

CONNECTIONS

The device is equipped with the following interfaces:

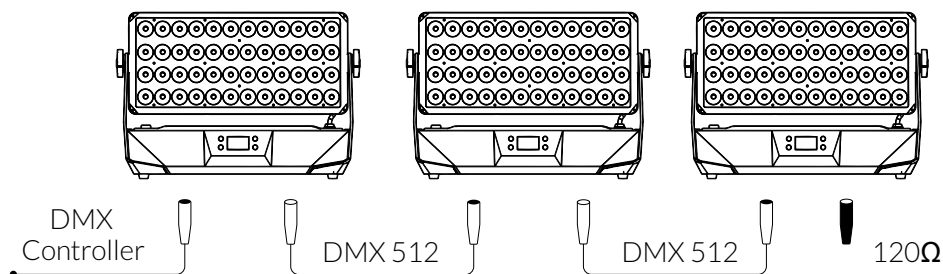
1. DMX (in/out): XLR 3-pin socket
2. Power (in/out): powerCON TRUE1 socket

The connection is performed using a cable with XLR female to XLR male connectors.



CAUTION! At the last fixture, the DMX signal has to be terminated with a terminator. Solder a 120Ω resistor between signal (-) and signal (+) into a XLR plug and plug it in the DMX output of the last fixture.

Diagram of connection of devices by DMX cable



Power Connection and Operating Conditions

The connection is performed using a power cable with a TrueCON connector (included). The device should be operated by qualified personnel.

CAUTION! In the case of cable damage do not attempt to repair. Replacement or repair may only be carried out by the manufacturer or by a person with appropriate permissions

When using the device, the voltage variation should be within $\pm 10\%$. If the voltage is too high, it may shorten the light source lifespan; if it is too low, the output will be reduced. After switching off, allow the device to cool down for 20 minutes before restarting. Frequent switching reduces the service life of the light sources; intermittent operation will extend their service life.

IMPORTANT!

The maximum number of devices connected in series via power cable is 3 pcs.

Voltage Specification

Input Voltage AC	Amperage	Frequency	Total Power
230 [V]	3.7 [A]	50 [Hz]	850 [W]
110 [V]	7.7 [A]	60 [Hz]	

Set DMX Address

- Enter the MENU.
- The UP arrow changes the number. DOWN arrow moves forward.
- Press MENU to set DMX Address, and press ENTER to enter into.
- Set needed DMX Address using the UP and DOWN buttons.
- Set needed DMX mode.
- Set needed dimming curve.
- Press ENTER each time to confirm.
- Press the MENU to exit. The changes will be noticed after exiting the MENU.

W-DMX linking

- Enter the MENU
- Change Running mode/Control to Wireless
- Set Settings/W-DMX unlink YES to unlink present connection
- Press linking on your Transmitter
- If needed send signal thru DMX set Settings/W-DMX to DMX YES

DMX CHART**4-channel mode**

CH	Function	DMX Value	Details
1	Red	0-255	Red
2	Green	0-255	Green
3	Blue	0-255	Blue
4	Lime	0-255	Lime

10-channel mode

CH	Function	DMX Value	Details
1	Dimmer	0-255	Dimmer
2	Dimmer fine	0-255	Dimmer fine
3	Strobe	0-5	Open
		6-10	Closed
		11-86	Strobe 0,5-25Hz
		87-92	Open
		93-168	Random strobe random pixels slow to fast
		169-174	Open
		175-250	random strobe all pixels slow to fast
		251-255	Open
4	Control	0-255	0-10 No function, 11-12 dimmer curve 1 scurve, 13-14 dimmer curve 2 linear, 15-16 dimmer curve 3 square, 17-18 dimmer curve 4 inv square, 19-20 no function, 21-22 dimmer fast, 23-24 dimmer smooth, 25-30 no function, 31-32 led frequency 1, 33-34 led frequency 2, 35-36 led frequency 3, 37-38 led frequency 4, 39-40 led frequency 5, 41-50 no function, 51-55 unlink crmx, 56-80 no function, 81-82 display on, 83-84 display off after 5s, 85-100 no function, 101-102 fans auto,

			103-106 fans high, 107-108 fans mid, 109-110 fans slow, 111-120 no function, 121-122 CTC high CRI (need to be added also on menu/settings), 123-124 CTC high OUTPUT (need to be added also on menu/settings), 125-230 no function, 231-235 set default control values, 236-255 no function
5	Red	0-255	Red
6	Green	0-255	Green
7	Blue	0-255	Blue
8	Lime	0-255	Lime
9	Color Macro	0-255	CTO
10	Reserved	0-255	Reserved

20-channel mode

CH	Function	DMX Value	Details
1	Dimmer	0-255	Dimmer
2	Dimmer fine	0-255	Dimmer fine
3	Strobe	0-5	Open
		6-10	Closed
		11-86	Strobe 0,5-25Hz
		87-92	Open
		93-168	Random strobe random pixels slow to fast
		169-174	Open
		175-250	random strobe all pixels slow to

			fast
		251-255	Open
4	Control	0-255	0-10 No function, 11-12 dimmer curve 1 scurve, 13-14 dimmer curve 2 linear, 15-16 dimmer curve 3 square, 17-18 dimmer curve 4 inv square, 19-20 no function, 21-22 dimmer fast, 23-24 dimmer smooth, 25-30 no function, 31-32 led frequency 1, 33-34 led frequency 2, 35-36 led frequency 3, 37-38 led frequency 4, 39-40 led frequency 5, 41-50 no function, 51-55 unlink crmx, 56-80 no function, 81-82 display on, 83-84 display off after 5s, 85-100 no function, 101-102 fans auto, 103-106 fans high, 107-108 fans mid, 109-110 fans slow, 111-120 no function, 121-122 CTC high CRI (need to be added also on menu/settings), 123-124 CTC high OUTPUT (need to be added also on menu/settings), 125-230 no function, 231-235 set default control values, 236-255 no function
5	Red	0-255	Red
6	Green	0-255	Green

7	Blue	0-255	Blue
8	Lime	0-255	Lime
9	Color Macro	0-255	CTO
10	Effect Macro	0-255	0-10 no function, 11-20 effect 1, 21-30 effect 2, 31-40 effect 4..... 221-230 effect 23, 231-240 effect 24, 241-250 effect 25, 251-255 effect 26
11	Effect macro speed	0-255	0-127 index, 128-190 fast to slow direction > 191-192 stop, 193-255 slow to fast direction <
12	Effect Fade out	0-255	Effect Fade out
13	Background dimmer	0-255	Background dimmer
14	Background strobe	0-255	Background strobe
15	Background Red	0-255	Background Red
16	Background Green	0-255	Background Green
17	Background Blue	0-255	Background Blue
18	Background Lime	0-255	Background Lime
19	Reserved	0-255	Reserved
20	Reserved	0-255	Reserved

24-channel mode

CH	Function	DMX Value	Details
1	Dimmer	0-255	Dimmer
2	Dimmer fine	0-255	Dimmer fine
3	Strobe	0-5	Open

		6--10	Closed
		11-86	Strobe 0,5-25Hz
		87-92	Open
		93-168	Random strobe random pixels slow to fast
		169-174	Open
		175-250	random strobe all pixels slow to fast
		251-255	Open
4	Control	0-255	0-10 No function, 11-12 dimmer curve 1 scurve, 13-14 dimmer curve 2 linear, 15-16 dimmer curve 3 square, 17-18 dimmer curve 4 inv square, 19-20 no function, 21-22 dimmer fast, 23-24 dimmer smooth, 25-30 no function, 31-32 led frequency 1, 33-34 led frequency 2, 35-36 led frequency 3, 37-38 led frequency 4, 39-40 led frequency 5, 41-50 no function, 51-55 unlink crmx, 56-80 no function, 81-82 display on, 83-84 display off after 5s, 85-100 no function, 101-102 fans auto, 103-106 fans high, 107-108 fans mid, 109-110 fans slow, 111-120 no function, 121-122 CTC high CRI (need to be added also on menu/settings), 123-124 CTC high OUTPUT (need

			to be added also on menu/settings), 125-230 no function, 231-235 set default control values, 236-255 no function
5	Red	0-255	Red
6	Red fine	0-255	Red fine
7	Green	0-255	Green
8	Green fine	0-255	Green fine
9	Blue	0-255	Blue
10	Blue fine	0-255	Blue Fine
11	Lime	0-255	Lime
12	Lime fine	0-255	Lime fine
13	Color Macro	0-255	Color Macro
14	Effect Macro	0-255	0-10 no function, 11-20 effect 1, 21-30 effect 2, 31-40 effect 4..... 221-230 effect 23, 231-240 effect 24, 241-250 effect 25, 251-255 effect 26
15	Effect macro speed	0-255	0-127 index, 128-190 fast to slow direction > 191-192stop, 193-255 slow to fast direction <
16	Effect Fade out	0-255	Effect Fade out
17	Background dimmer	0-255	Background dimmer
18	Background strobe	0-255	Background strobe
19	Background Red	0-255	Background Red

20	Background Green	0-255	Background Green
21	Background Blue	0-255	Background Blue
22	Background Lime	0-255	Background Lime
23	Reserved	0-255	Reserved
24	Reserved	0-255	Reserved

32-channel mode

CH	Function	DMX Value	Details
1	Pixel 1 Red	0-255	Pixel 1 Red from dark to bright
2	Pixel 1 Green	0-255	Pixel 1 Green from dark to bright
3	Pixel 1 Blue	0-255	Pixel 1 Blue from dark to bright
4	Pixel 1 Lime	0-255	Pixel 1 Lime from dark to bright
5	Pixel 2 Red	0-255	Pixel 2 Red from dark to bright
6	Pixel 2 Green	0-255	Pixel 2 Green from dark to bright
7	Pixel 2 Blue	0-255	Pixel 2 Blue from dark to bright
8	Pixel 2 Lime	0-255	Pixel 2 Lime from dark to bright
...	...	...	...
29	Pixel 8 Red	0-255	Pixel 8 Red from dark to bright
30	Pixel 8 Green	0-255	Pixel 8 Green from dark to bright
31	Pixel 8 Blue	0-255	Pixel 8 Blue from dark to bright
32	Pixel 8 Lime	0-255	Pixel 8 Lime from dark to bright

36-channel mode

CH	Function	DMX Value	Details
1	Dimmer	0-255	Dimmer
2	Dimmer fine	0-255	Dimmer fine

3	Strobe	0-5	Open
		6-10	Closed
		11-86	Strobe 0,5-25Hz
		87-92	Open
		93-168	Random strobe random pixels slow to fast
		169-174	Open
		175-250	random strobe all pixels slow to fast
		251-255	Open
4	Control	0-255	0-10 No function, 11-12 dimmer curve 1 scurve, 13-14 dimmer curve 2 linear, 15-16 dimmer curve 3 square, 17-18 dimmer curve 4 inv square, 19-20 no function, 21-22 dimmer fast, 23-24 dimmer smooth, 25-30 no function, 31-32 led frequency 1, 33-34 led frequency 2, 35-36 led frequency 3, 37-38 led frequency 4, 39-40 led frequency 5, 41-50 no function, 51-55 unlink crmx, 56-80 no function, 81-82 display on, 83-84 display off after 5s, 85-100 no function, 101-102 fans auto, 103-106 fans high, 107-108 fans mid, 109-110 fans slow, 111-120 no function, 121-122 CTC high CRI (need to be

			added also on menu/settings), 123-124 CTC high OUTPUT (need to be added also on menu/settings), 125-230 no function, 231-235 set default control values, 236-255 no function
5	Pixel 1 Red	0-255	Pixel 1 Red from dark to bright
6	Pixel 1 Green	0-255	Pixel 1 Green from dark to bright
7	Pixel 1 Blue	0-255	Pixel 1 Blue from dark to bright
8	Pixel 1 Lime	0-255	Pixel 1 Lime from dark to bright
9	Pixel 2 Red	0-255	Pixel 2 Red from dark to bright
10	Pixel 2 Green	0-255	Pixel 2 Green from dark to bright
11	Pixel 2 Blue	0-255	Pixel 2 Blue from dark to bright
12	Pixel 2 Lime	0-255	Pixel 2 Lime from dark to bright
...	...	...	...
33	Pixel 8 Red	0-255	Pixel 8 Red from dark to bright
34	Pixel 8 Green	0-255	Pixel 8 Green from dark to bright
35	Pixel 8 Blue	0-255	Pixel 8 Blue from dark to bright
36	Pixel 8 Lime	0-255	Pixel 8 Lime from dark to bright

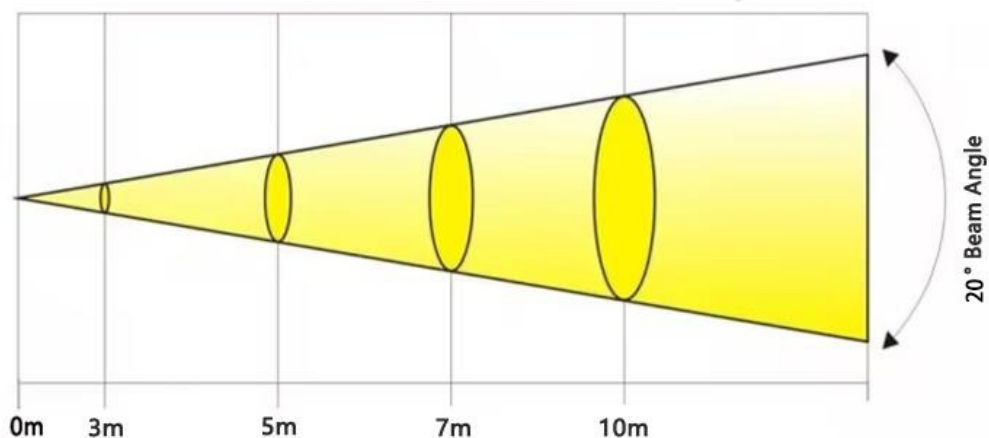
MENU STRUCTURE

Level 1	Level 2	Description
Address	001-512	
Run Mode	DMX	4CH/10CH/ 20CH/24CH/32CH/36CH
	Signal	DMX/W-DMX
	Auto test	
	Manual test	Manually test every channels
	Auto	
Setting	Screen Reverse	YES/NO
	Screen Lock	YES/NO
	No signal Hold	YES/NO
	Reset WDMX	YES/NO
	Language	EN/CN
	Dimmer speed	Smooth/Fast
	Dimmer Curve	Linear/Square/ Square/Scurve
	Fade Mode	Auto/Silent/Normal
	Factory reset	YES/NO
System Information	Version	V1.2
	Run Mode	
	DMX Address	
	Temperature	
	Fixture Hours	
	PROGRAM NUMBER	

PHOTOMETRICS

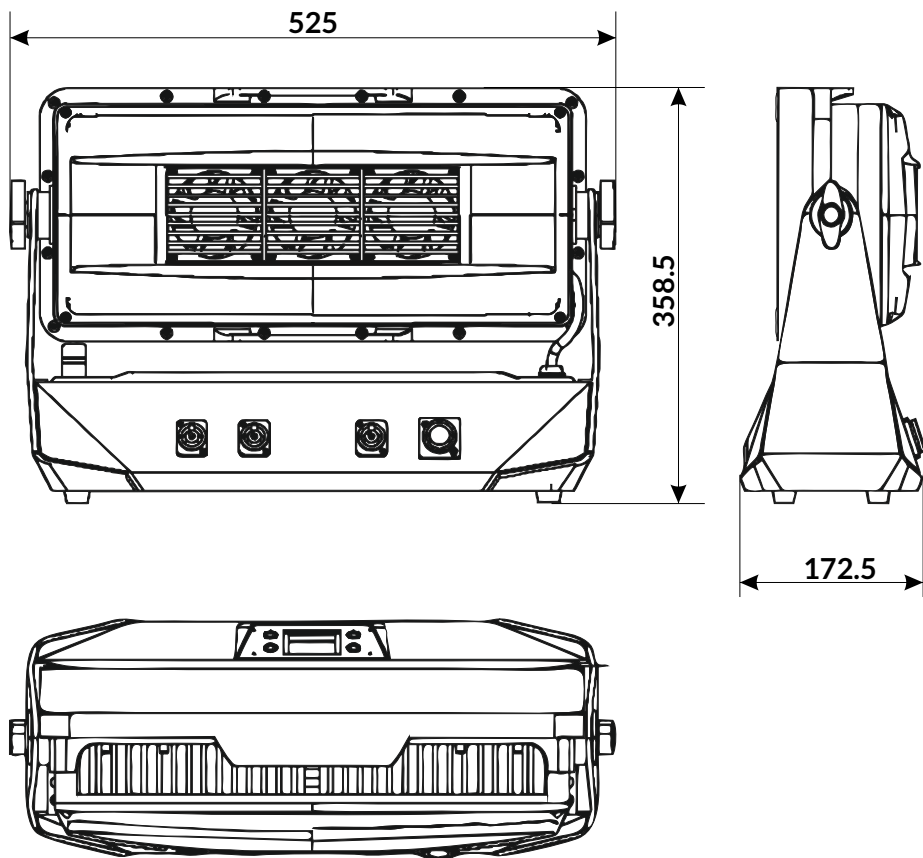
Lux data (20° beam angle, no magnetic barn doors)

R	2850lux@3m	800lux@5m	450lux@7m	220lux@10m
G	4300lux@3m	1250lux@5m	650lux@7m	340lux@10m
B	7100lux@3m	2100lux@5m	1100lux@7m	570lux@10m
L	4000lux@3m	1200lux@5m	600lux@7m	320lux@10m
RGBL	16000lux@3m	4600lux@5m	2500lux@7m	1260lux@10m



DRAWINGS

Product dimensions (mm)

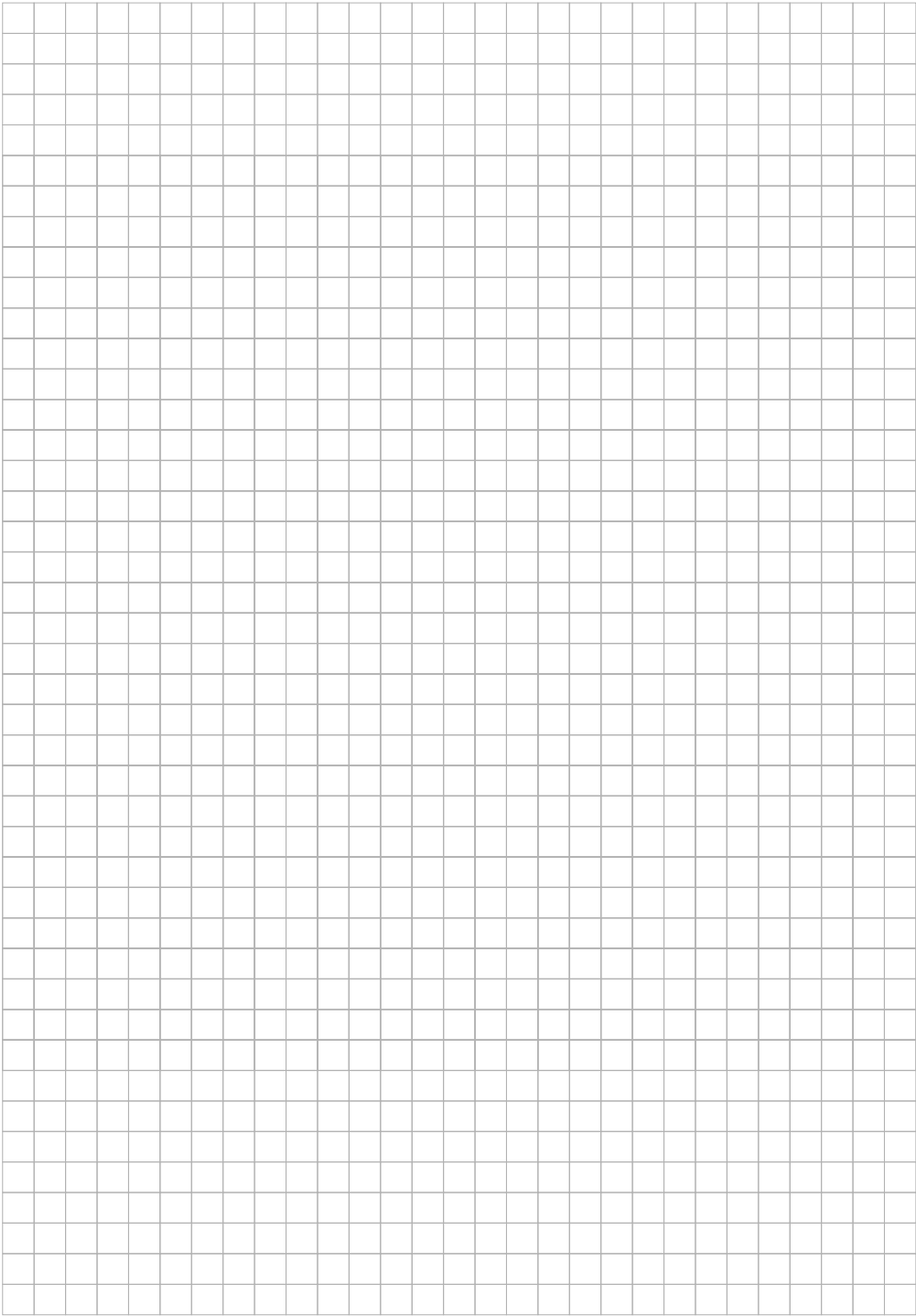


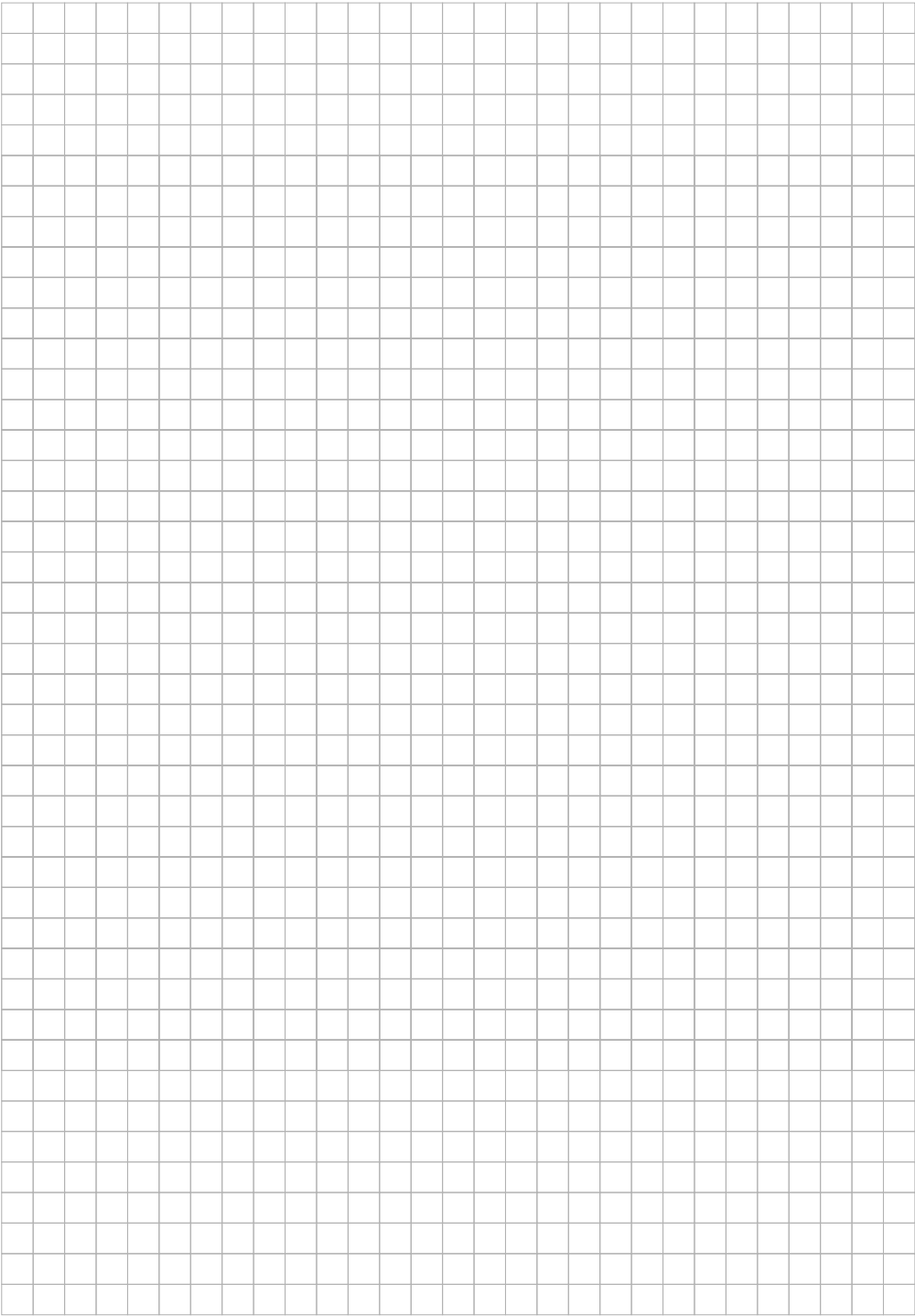
SPECIFICATIONS

- Light source: 48 × 20 W RGBL LEDs
- Power consumption: 850 W
- Power supply: AC 100–240 V, 50/60 Hz
- Tilt range: 160°
- Manual tilt adjustment
- Beam angle: 20° (fixed)
- Strobe: 0–20 Hz (random mode)
- Dimming: 16-bit
- Color mixing: RGBL, 16-bit
- 8 control sections
- Operating modes: DMX512, RDM, Auto, Master-Slave, W-DMX
- DMX modes: 6
- DMX channels: 4–36
- User interface: capacitive touch buttons, LCD display
- AC IN/OUT: TrueCon IP65
- DMX IN/OUT: 3-pin XLR IP65
- IP rating: IP65
- Housing material: aluminium
- Mounting: FastLock
- Housing color: black
- Cooling: active
- Dimensions: 525 × 172 × 358 mm
- Net weight: 17.4 kg

USER NOTES

This image shows a full page of blank graph paper. The grid consists of small, uniform squares formed by thin, light gray lines. There are no margins, text, or other markings on the page.







FLASH

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