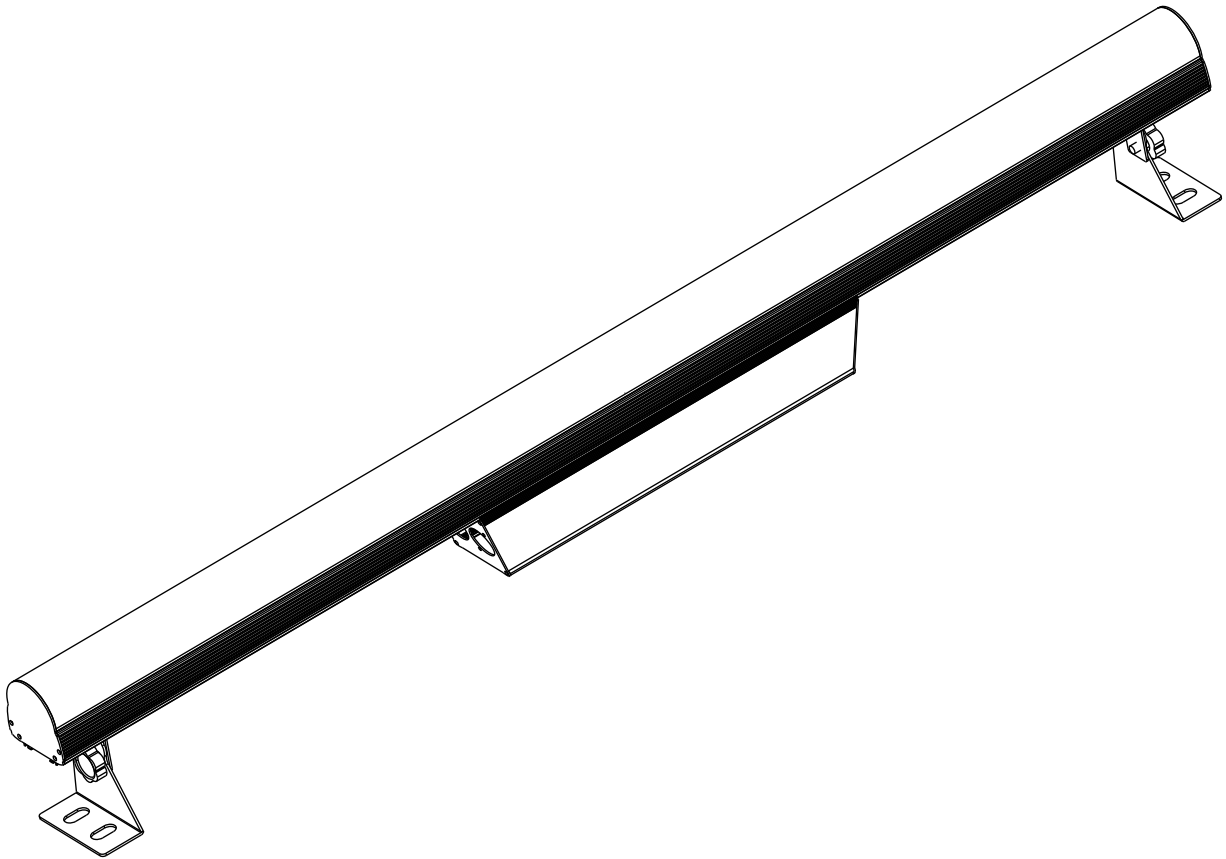


PIXELTUBE

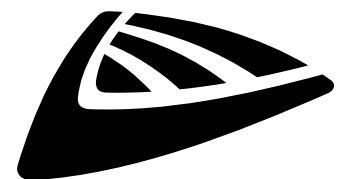


ENGLISH Operation Manual

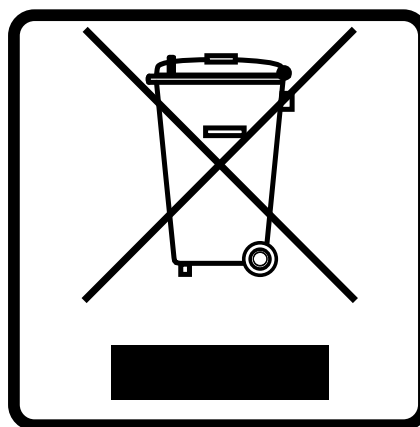
Other languages can be downloaded from:
WWW.JB-SYSTEMS.EU



Version: 1.0



JB SYSTEMS



EN - DISPOSAL OF THE DEVICE

Dispose of the unit and used batteries in an environment friendly manner according to your country regulations.

FR - DÉCLASSER L'APPAREIL

Débarrassez-vous de l'appareil et des piles usagées de manière écologique Conformément aux dispositions légales de votre pays.

NL - VERWIJDEREN VAN HET APPARAAT

Verwijder het toestel en de gebruikte batterijen op een milieuvriendelijke manier conform de in uw land geldende voorschriften.

DU - ENTSORGUNG DES GERÄTS

Entsorgen Sie das Gerät und die Batterien auf umweltfreundliche Art und Weise gemäß den Vorschriften Ihres Landes.

ES - DESHACERSE DEL APARATO

Reciclar el aparato y pilas usadas de forma ecologica conforme a las disposiciones legales de su país.

PT - COMO DESFAZER-SE DA UNIDADE

Tente reciclar a unidade e as pilhas usadas respeitando o ambiente e em conformidade com as normas vigentes no seu país.

USER MANUAL

Thank you for buying this JB Systems® product. To take full advantage of all possibilities and for your own safety, please read these operating instructions very carefully before you start using this unit.

FEATURES

- A versatile LED effect tube for use in all kinds of small and bigger setups!
- 11, 22 or 88 separately controllable RGB-segments
- Different working modes:
 - DMX with 6 modes (3 to 266CH)
 - Auto-run effects
 - Sound-run effects
 - Master/Slave mode
- White acrylic covers for diffuse light and perfect color mixing
- Adjustable feet that can turn 90°
- Multiple Pixel Tubes can be quickly connected and aligned using a sliding mechanism.
- PowerCon IN and OUT
- XLR 3-pin IN and OUT
- W-DMX-compatible with optional WTR-DMX DONGLE

BEFORE USE

- Before you start using this unit, please check if there's no transportation damage. Should there be any, do not use the device and consult your dealer first.
- **Important:** This device left our factory in perfect condition and well packaged. It is necessary for the user to strictly follow the safety instructions and warnings in this user manual. Any damage caused by mishandling is not subject to warranty. The dealer will not accept responsibility for any resulting defects or problems caused by disregarding this user manual.
- Keep this booklet in a safe place for future consultation. If you sell the fixture, be sure to add this user manual.

Check the contents:

Check that the carton contains the following items:

- Operating instructions
- Pixeltube
- Powercon mains cable
- Slidable feet + screws

SAFETY INSTRUCTIONS:



CAUTION
RISK OF ELECTRIC SHOCK
DO NOT OPEN



CAUTION: To reduce the risk of electric shock, do not remove the top cover. No user-serviceable parts inside. Refer servicing to qualified service personnel only.



The lightning flash with arrowhead symbol within the equilateral triangle is intended to alert the user to the presence of un-insulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock.



The exclamation point within the equilateral triangle is intended to alert the user to the presence of important operation and maintenance (servicing) instructions in the literature accompanying this appliance.



This symbol means: indoor use only



This symbol means: Read instructions



This symbol determines: the minimum distance from lighted objects. The minimum distance between light-output and the illuminated surface must be more than 20 centimeter



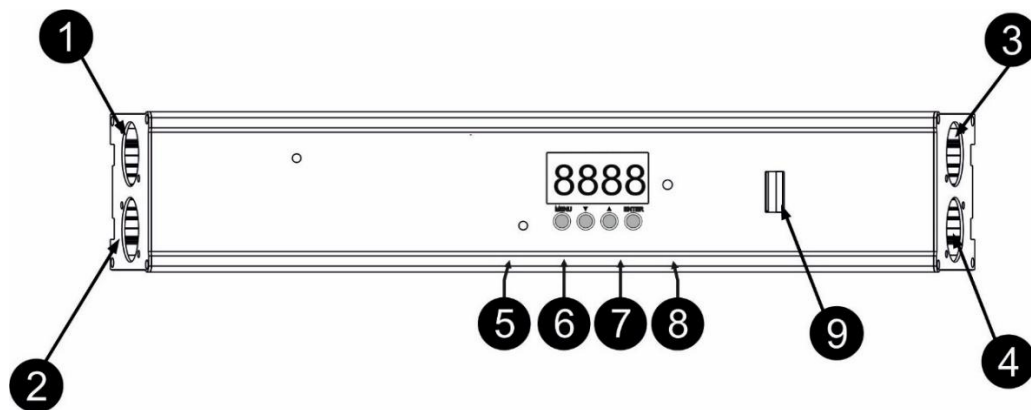
The device is not suitable for direct mounting on normally flammable surfaces. (suitable only for mounting on non-combustible surfaces)

RISK GROUP 2
CAUTION:
Do not stare at operating lamp

CAUTION: Do not stare at operating lamp.
May be harmful to the eyes.

- To protect the environment, please try to recycle the packing material as much as possible.
- To avoid condensation forming inside, allow the unit to adapt to the surrounding temperatures when bringing it into a warm room after transport. Condense sometimes prevents the unit from working at full performance or may even cause damage.
- To prevent fire or shock hazard, do not expose this appliance to rain or moisture.
- This unit is for indoor use only.
- Don't place metal objects or spill liquid inside the unit. Electric shock or malfunction may result. If a foreign object enters the unit, immediately disconnect the mains power.
- Locate the fixture in a well-ventilated spot, away from any flammable materials and/or liquids. The fixture must be fixed at least 50cm from surrounding walls.
- Don't cover any ventilation openings as this may result in overheating.
- Prevent use in dusty environments and clean the unit regularly.
- Keep the unit away from children.
- Inexperienced persons should not operate this device.
- Maximum ambient temperature is 40°C. Don't use this unit at higher ambient temperatures.
- Make sure the area below the installation of the fixture is free from unwanted personnel during rigging, de-rigging and servicing.
- Allow the device about 10 minutes to cool down before starting service.
- Always unplug the unit when it is not used for a longer time or before starting service.
- The electrical installation should be carried out by qualified personnel only, according to the regulations for electrical and mechanical safety in your country.
- Check that the available voltage is not higher than the one stated on the unit.
- The power cord should always be in perfect condition. Switch the unit immediately off when the power cord is squashed or damaged. It must be replaced by the manufacturer, its service agent or similarly qualified persons in order to avoid a hazard.
- Never let the power cord come into contact with other cables!
- Don't connect the unit to any dimmer pack.
- Always use an appropriate and certified safety cable when installing the unit.
- In order to prevent electric shock, do not open the cover. There are no user serviceable parts inside.
- **Never** repair a fuse or bypass the fuse holder. **Always** replace a damaged fuse with a fuse of the same type and electrical specifications!
- In the event of serious operating problems, stop using the fixture and contact your dealer immediately.
- The housing and the lenses must be replaced if they are visibly damaged.
- Please use the original packaging when the device is to be transported.
- Due to safety reasons it is prohibited to make unauthorized modifications to the unit.

Important: Never look directly into the light source! Don't use the effect in the presence of people suffering from epilepsy.


DESCRIPTION:

1. **POWERCON® IN**
2. **DMX IN** : 3pin XLR-connector used to connect the tube to a DMX controller or with the previous tube in the DMX chain.
3. **POWERCON® OUT**
4. **DMX OUT** : 3pin XLR-connector used to connect the tube with the next unit in the DMX chain
5. **MENU**: to browse the different functions of the menu
6. **DOWN** : to navigate the menu or decrease values
7. **UP**: to navigate the menu or increase values
8. **ENTER**: To confirm the selection
9. **USB-port**: to connect the optional “WTR-DMX DONGLE” (order code: B04645)

OVERHEAD RIGGING

- **Important:** The installation must be carried out by qualified service personnel only. Improper installation can result in serious injuries and/or damage to property. Overhead rigging requires extensive experience! Working load limits should be respected, certified installation materials should be used, the installed device should be inspected regularly for safety.
- Make sure the area below the installation place is free from unwanted personnel during rigging, de-rigging and servicing.
- Locate the fixture in a well-ventilated spot, far away from any flammable materials and/or liquids. The fixture must be fixed **at least 20cm** from surrounding walls.
- The device should be installed out of reach of people and outside areas where personnel may walk by or be seated.
- Before rigging make sure that the installation area can hold a minimum point load of 10 times the device's weight.
- Always use a certified safety cable that can hold 12 times the weight of the device when installing the unit. This secondary safety attachment should be installed in such a way that whichever part of the installation can drop no more than 20cm, if the main attachment should fail.
- The device should be well attached; a free-swing mounting is dangerous and must not be considered!
- Don't cover any ventilation openings as this may result in overheating.
- The operator must make sure that the safety-related and machine-technical installations are approved by an expert before using them for the first time. The installations should be inspected every year by a skilled professional to be sure that safety is still optimal.

ELECTRICAL INSTALLATION + ADDRESSING

 **Important:** The electrical installation should be carried out by qualified personnel only, according to the regulations for electrical and mechanical safety in your country.

Electrical installation for 1 standalone unit:

- Insert the mains cable. The unit starts working immediately in the last selected mode.
- Refer to chapter HOW TO SETUP to learn how to switch between the different working modes.

Electrical installation for two or more units in DMX-mode:

- The DMX protocol is a commonly used signal for controlling intelligent lighting equipment. You must connect your DMX controller and all connected devices in series using a good quality balanced cable.
- To prevent strange behavior of the lighting effects due to interference, it is recommended to use a 120-ohm terminating resistor at the end of the chain. This is usually an XLR connector with a 120-ohm resistor between pin 2 and pin 3.
- Make sure that all devices are connected to the mains.
- Each lighting effect in the chain must have its own start address so that it knows which commands from the controller to decode. In the next section, you will learn how to set the DMX addresses.

HOW TO SET UP

DMX/Channel Mode:

The unit has 6 different channel modes, refer to the DMX-chart on next pages to see the differences.

- Press the [MODE] button until [A001...A512] is shown on the display.
- Press the ▲ or ▼ button to set the desired DMX address.
- Press the [MODE] button to select the address and go to channel mode [CHnd].
- Use ▲ and ▼ buttons to select one of the available channel modes. (3,5,8,35,68 or 266CH)
- Once the mode is selected, press the [ENTER] button to confirm.

[r000-r255] Red

Use this function to put the fixture in fixed RED color.

Use the ▲ or ▼ buttons for dimming between 0% (000) and 100% (255).

[G000-G255] Green

Use this function to put the fixture in fixed GREEN color.

Use the ▲ or ▼ buttons for dimming between 0% (000) and 100% (255).

[b000-b255] Blue

Use this function to put the fixture in fixed BLUE color.

Use the ▲ or ▼ buttons for dimming between 0% (000) and 100% (255).

[F000-F255] Strobe

Use this function for strobe effect.

[F000-F005] Shutter open

[F006-F010] Shutter closed

[F011-F255] Use the ▲ or ▼ buttons for adjusting the speed between slow (F011) and fast (F255).

[CL01-CL07] Fixed colors

Use this function to select one of the seven built-in fixed colors.

Use the ▲ or ▼ buttons to select the desired color.

[EF01-EF70] Effects

Use this function to select one of the seventy built-in effects.

Use the ▲ or ▼ buttons to select the desired effect.

[SoU1-SoU3] Sound mode

Use this function to activate the sound mode.

Use the ▲ or ▼ buttons to select the desired effect

[nASt] Master- Slave Mode

The first projector in the chain should be set in sound or program mode, all the other projectors have to be in Slave mode.

- Press the **[MENU]** button.
- Press the **▲** or **▼** button until **[nASt]** is shown on the display.
- Press **[ENTER]** to confirm

OPERATING INSTRUCTIONS

- Once connected to the mains, the device starts running.
- Always unplug the unit when it is not used for a longer time or before starting service.
- In the event of serious operating problems, stop using the fixture and contact your dealer immediately.
- **Important:** Never look directly into the light source! Don't use the effect in the presence of personnel suffering from epilepsy.

A. Standalone 1unit:

- Just connect the projector to the mains.
- Select one of the automatic, sound, static color or effect modes
- Refer to chapter HOW TO SETUP to learn how to make the settings.

B. Two or more units in master/slave setup:

- Connect the units together. Refer to the chapter "electrical installation" to learn how to do this.
- Select one of the effect, sound or static color modes on the master (the first projector in the DMX chain)
- Set all the other projectors in SLAVE mode
- The projectors will now follow the program of the master projector so they all work synchronously.

C. Controlled by a universal DMX-controller:

- Connect all units together. Refer to the chapter "Electrical installation for two or more units in DMX-mode" to learn how to do this (don't forget to address all units properly!)
- Connect all units to the mains and turn on the DMX controller.

Since each unit has its own DMX-address, you can control them individually. Remember that each unit uses different DMX-channels, depending on the DMX-mode you have selected in the menu. See the different DMX charts below:

DMX Channel Lists**DMX MODE 1: 3CH**

Channel	Value	Description
CH1	000-255	Red dimmer from dark to light
CH2	000-255	Green dimmer from dark to light
CH3	000-255	Blue dimmer from dark to light

DMX MODE 2: 5CH

Channel	Value	Description
CH1	000-255	Master dimmer from dark to light
CH2	000-005	Strobe shutter open
	006-010	Strobe shutter closed
	011-255	Master strobe from slow to fast
CH3	000-255	Red dimmer from dark to light
CH4	000-255	Green dimmer from dark to light
CH5	000-255	Blue dimmer from dark to light

DMX MODE 3: 8CH

Channel	Value	Description
CH 1	000-255	Master dimmer from dark to light
CH 2	000-005	Strobe shutter open
	006-010	Strobe shutter closed
	011-255	Master strobe from slow to fast
CH 3	000-004	Perform the (CH 6-8) RGB static dimmer
	005-009	Static color, CH4 Select (red, green, blue, yellow, purple, cyan, white)
	010-014	Breath effect, CH5 Select color
	015-019	Jump change effect, CH5 Select color
	020-024	Gradual change effect (Full color effect)
	025-029	Pulse change effect, CH5 Select color
	030-032	Autorun effect-1, CH5 Select color(cycle auto-run)
	033-035	Autorun effect-2
	036-038	Autorun effect-3
	039-041	Autorun effect-4
	042-044	Autorun effect-5
	045-047	Autorun effect-6
	048-050	Autorun effect-7
	051-053	Autorun effect-8
	054-056	Autorun effect-9
	057-059	Autorun effect-10
	060-062	Autorun effect-11
	063-065	Autorun effect-12
	066-068	Autorun effect-13
	069-071	Autorun effect-14
	072-074	Autorun effect-15
	075-077	Autorun effect-16
	078-080	Autorun effect-17
	081-083	Autorun effect-18
	084-086	Autorun effect-19
	087-089	Autorun effect-20
	090-092	Autorun effect-21
	093-095	Autorun effect-22
	096-098	Autorun effect-23
	99-101	Autorun effect-24
	102-104	Autorun effect-25
	105-107	Autorun effect-26
	108-110	Autorun effect-27
	111-113	Autorun effect-28
	114-116	Autorun effect-29
	117-119	Autorun effect-30
	120-122	Autorun effect-31
	123-125	Autorun effect-32
	126-128	Autorun effect-33
	129-131	Autorun effect-34
	132-134	Autorun effect-35
	135-137	Autorun effect-36
	138-140	Autorun effect-37
	141-143	Autorun effect-38
	144-146	Autorun effect-39
	147-149	Autorun effect-40
150-152	Autorun effect-41	
153-155	Autorun effect-42	
156-158	Autorun effect-43	
159-161	Autorun effect-44	
162-164	Autorun effect-45	
165-167	Autorun effect-46	

	168-170	Autorun effect-47
	171-173	Autorun effect-48
	174-176	Autorun effect-49
	177-179	Autorun effect-50
	180-182	Autorun effect-51
	183-185	Autorun effect-52
	186-188	Autorun effect-53
	189-191	Autorun effect-54
	192-194	Autorun effect-55
	195-197	Autorun effect-56
	198-200	Autorun effect-57
	201-203	Autorun effect-58
	204-206	Autorun effect-59
	207-209	Autorun effect-60
	210-212	Autorun effect-61
	213-215	Autorun effect-62
	216-218	Autorun effect-63
	219-221	Autorun effect-64
	222-224	Autorun effect-65
	225-239	Autorun effect-66
	240-244	Sound mode 1, CH5 Select color
	245-249	Sound mode 2, CH5 Select color
	250-255	Sound mode 3, CH5 Select color
CH 4	000-255	Static color mode: red, green, blue, yellow, purple, cyan, white Autorun effect: adjustment speed from slow to fast Sound mode: adjustment sensitivity from low to high (The highest sensitivity is the sensitivity set by the menu)
CH 5	000-028	Default color
	029-056	Red, CH3 Manual color selection
	057-085	Green, CH3 Manual color selection
	086-113	Blue, CH3 Manual color selection
	114-142	Yellow, CH3 Manual color selection
	143-170	Purple, CH3 Manual color selection
	171-199	Cyan, CH3 Manual color selection
	200-227	White, CH3 Manual color selection
	228-255	User-defined color(CH6-CH8), CH3 Manual color selection
CH 6	000-255	Autorun effect color: Red dimmer from dark to bright
CH 7	000-255	Autorun effect color: Green dimmer from dark to bright
CH 8	000-255	Autorun effect color: Blue dimmer from dark to bright

DMX MODE 4: 35CH (11 segments: 3x8)

Channel	Value	Description
CH 1	000-255	Master dimmer from dark to light
CH 2	000-005	Strobe shutter open
	006-010	Strobe shutter closed
	011-255	Master strobe from slow to fast
CH3	000-255	R1 dimmer from dark to light
CH4	000-255	G1 dimmer from dark to light
CH5	000-255	B1 dimmer from dark to light
...
...
CH33	000-255	R11 dimmer from dark to light
CH34	000-255	G11 dimmer from dark to light
CH35	000-255	B11 dimmer from dark to light

DMX MODE 5: 68CH (22 segments: 3x4)

Channel	Value	Description
CH 1	000-255	Master dimmer from dark to light
CH 2	000-005	Strobe shutter open
	006-010	Strobe shutter closed
	011-255	Master strobe from slow to fast
CH3	000-255	R1 dimmer from dark to light
CH4	000-255	G1 dimmer from dark to light
CH5	000-255	B1 dimmer from dark to light
...
...
CH66	000-255	R22 dimmer from dark to light
CH67	000-255	G22 dimmer from dark to light
CH68	000-255	B22 dimmer from dark to light
CH67	000-255	G22 dimmer from dark to light
CH68	000-255	B22 dimmer from dark to light

DMX MODE 6: 266CH (88 segments: 3x1)

Channel	Value	Description
CH1	000-255	Master dimmer from dark to light
CH2	000-005	Strobe shutter open
	006-010	Strobe shutter closed
	011-255	Master strobe from slow to fast
CH3	000-255	R1 dimmer from dark to light
CH4	000-255	G1 dimmer from dark to light
CH5	000-255	B1 dimmer from dark to light
...
...
CH264	000-255	R88 dimmer from dark to light
CH265	000-255	G88 dimmer from dark to light
CH266	000-255	B88 dimmer from dark to light

MAINTENANCE

- Make sure the area below the installation place is free from unwanted personnel during servicing.
- Switch off the unit, unplug the mains cable and wait until the unit has cooled down.

During inspection the following points should be checked:

- All screws and parts used for installing the device should be tightly fastened and may not be corroded.
- Housing, fixations and installation spots (ceiling, truss, suspensions) should be free from any deformation.
- When an optical lens is visibly damaged due to cracks or deep scratches, it must be replaced.
- The mains cables must be in impeccable condition and should be replaced immediately when even a small problem is detected.
- To keep the device from overheating, the cooling fans (if any) and ventilation openings should be cleaned monthly.
- The interior of the device should be cleaned annually using a vacuum cleaner or air-jet.
- The cleaning of internal and external optical lenses and/or mirrors must be carried out periodically to optimize light output. Cleaning frequency depends on the environment in which the fixture operates: damp, smoky or particularly dirty surroundings can cause greater accumulation of dirt on the unit's optics.
 - Clean with a soft cloth using conventional glass cleaning products.
 - Always dry the parts carefully.

Attention: We strongly recommend internal cleaning to be carried out by qualified personnel!

SPECIFICATIONS

ENGLISH

JB Systems® hereby declares that the equipment described in this manual complies with Directives 2014/35/EU (LVD) and 2014/30/EU (EMC). The full text of the EU Declaration of Conformity, as well as the latest version of the manual and technical specifications, are available at the following internet address (under Manual and downloads): <https://jb-systems.eu/pixeltube>

NEDERLANDS

Hierbij verklaart JB Systems® dat de apparatuur beschreven in deze handleiding voldoet aan de richtlijnen 2014/35/EU (LVD) en 2014/30/EU (EMC). De volledige tekst van de EU-conformiteitsverklaring, alsook de laatste versie van de handleiding en technische specificaties zijn beschikbaar op het volgende internetadres (onder Handleiding en downloads): <https://jb-systems.eu/nl/pixeltube>

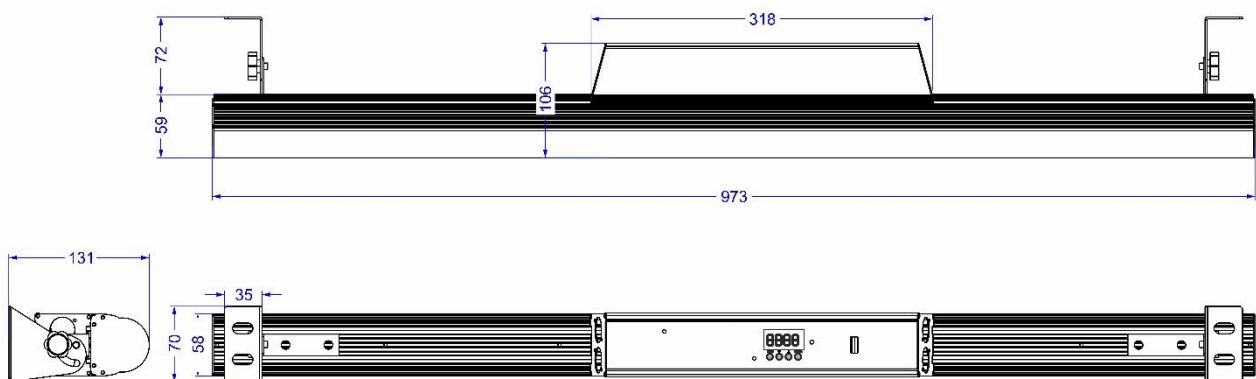
FRANCAIS

JB Systems® déclare par la présente que l'équipement décrit dans ce manuel est conforme à la 2014/35/EU (LVD) et 2014/30/EU (EMC). Le texte complet de la déclaration de conformité UE, ainsi que la dernière version du manuel et les spécifications techniques sont disponibles à l'adresse Internet suivante (sous Manuel et téléchargements) : <https://jb-systems.eu/fr/pixeltube>

DEUTSCH

Hiermit erklärt JB Systems® dass die in dieser Anleitung beschriebene Ausrüstung den Richtlinien 2014/35/EU (LVD) und 2014/30/EU (EMC) entspricht. Der vollständige Text der EU-Konformitätserklärung sowie die neuesten Versionen der Anleitung und der technischen Spezifikationen sind unter folgender Internetadresse verfügbar (unter Anleitung und Downloads): <https://jb-systems.eu/de/pixeltube>

Power Supply:	AC 100-240 V, 50-60Hz
Power consumption:	60 W
Sound Control:	Internal microphone
DMX connections:	3pin XLR male / female
DMX channels used:	3/5/8/35/68/266
Lamp:	264pcs 5050 0.2W RGB SMD
Size:	97,5 x 6 x 13,3 cm
Weight:	2.3 kg



The information might be modified without prior notice
You can download the latest version of this user manual on our website:

www.jb-systems.eu



JB SYSTEMS

MAILING LIST

EN: Subscribe today to our mailing list for the latest product news!

FR: Inscrivez-vous à notre liste de distribution si vous souhaitez suivre l'actualité de nos produits!

NL: Abonneer je vandaag nog op onze mailinglijst en ontvang ons laatste product nieuws!

DE: Abonnieren Sie unseren Newsletter und erhalten Sie aktuelle Produktinformationen!

ES: Suscríbete hoy a nuestra lista de correo para recibir las últimas noticias!

PT: Inscreva-se hoje na nossa mailing list para estar a par das últimas notícias!

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