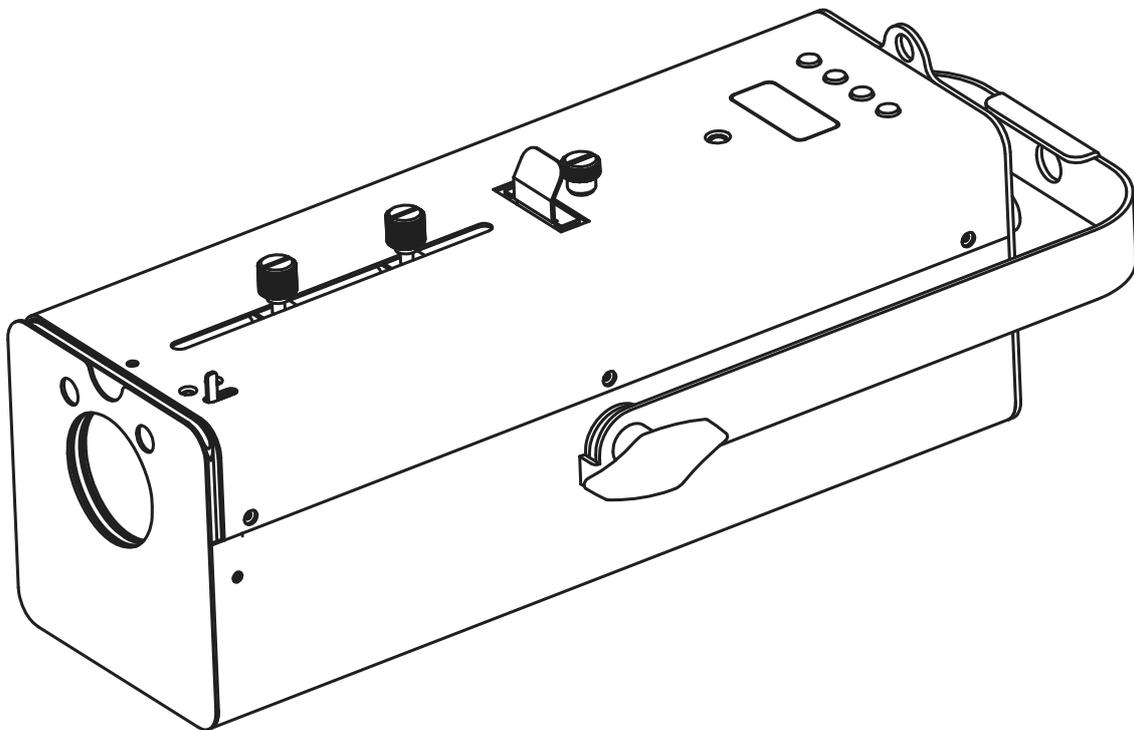
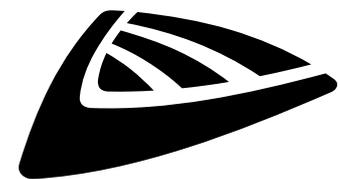


ROTOGOBO ZOOM



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.

OPERATION 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 powerful logo projector based on a 50W cold white led
- Low gobo temperature: no need for expensive heat resistant metal or glass gobos!
- Four FREE metal gobos included: [Sale, Happy New-Year, Presents, Hearts]
- Uses standard metal gobos and glass gobos.
- Can also be used with plastic film gobos that can be produced by a standard laser printer!
(*Gobo templates and instructions available on our website*)
- Adjustable beam angle: 20° to 34°
- Adjustable focus.
- Different working modes:
 - **Standalone:** Manual settings for dimmer, strobe and rotation (with IR-remote).
 - **Master/slave mode:** several projectors can be used together for synchronized projections.
 - **DMX-controlled:** 1, 2, 3 or 4channel mode.
- Infrared remote control included.
- Prepared for wireless DMX: just plug-in an optional WTR-DMX DONGLE ! (Briteq® order code: 4645)
- 2x 8 alphanumeric LED-display for easy menu navigation
- Very low noise operation: can be used in shops and showrooms.

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 absolutely 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 packing contains the following items:

- Operating instructions
- ROTOGOBO ZOOM unit
- Filter holder
- Gobo holder
- 4 Gobos
- Power Cable
- Grey PowerCON compatible connector

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 or 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 x meters



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 prevent fire or shock hazard, do not expose this appliance to rain or moisture.
- To avoid condensation to be formed 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 damages.
- 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 safe ambient temperature is 40°C. Don't use this unit at higher ambient temperatures.
- Make sure the area below the installation place is free from unwanted persons during rigging, de-rigging and servicing.
- Allow the device about 10 minutes to cool down before to start servicing.
- Always unplug the unit when it is not used for a longer time or before to start servicing.
- The electrical installation should be carried out by qualified personal 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!
- This fixture must be earthed in order to comply with safety regulations.
- 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 packing 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!

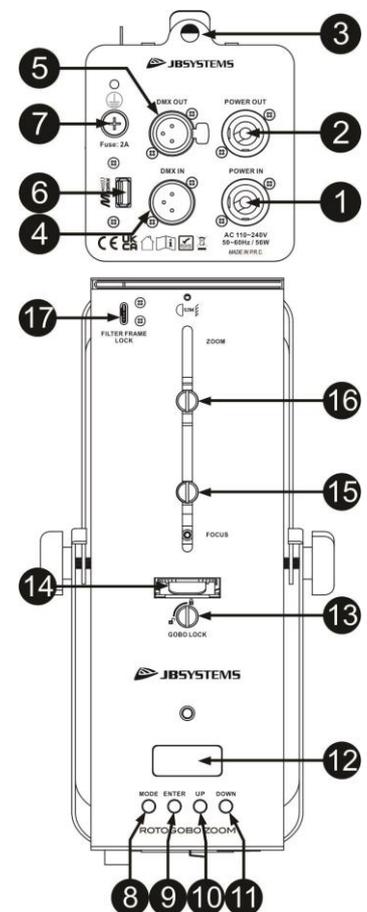
OVERHEAD RIGGING

- **Important:** The installation must be carried out by qualified service personal 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 persons during rigging, de-rigging and servicing.
- The device should be installed out of reach of people and outside areas where persons may walk by or be seated.
- Before rigging make sure that the installation area can hold a minimum point load of 10times the device's weight.
- Always use a certified safety cable that can hold 12times the weight of the device when installing the unit. This secondary safety attachment should be installed in a way that no part of the installation can drop more than 20cm if the main attachment fails.
- The device should be well fixed; a free-swinging mounting is dangerous and may not be considered!
- Don't cover any ventilation openings as this may result in overheating.
- The operator has to make sure that the safety-relating 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 person to be sure that safety is still optimal.



DESCRIPTION:

1. **MAINS INPUT:** equipped with PowerCON® compatible connectors. Connect the supplied mains cable or any PowerCON® extension cable here.
2. **MAINS OUTPUT:** used to daisy chain the power to several other projectors. Always pay attention to the maximum load while adding projectors! Special Multi cables (PowerCON® + DMX XLR-cables are optionally available)
3. **Safety eye:** here you can attach an optional safety cable when you are rigging the ROTOGOBO ZOOM in a light bridge.
4. **DMX INPUT:** 3pin male XLR-connector used to connect the projector with the DMX controller or with the previous unit in the DMX chain.
5. **DMX OUTPUT:** 3pin female XLR-connector used to connect the projector with the next unit in the DMX chain.
6. **M-DMX INPUT:** Please note that this USB-connector is NOT used for updates or to connect the unit to a PC! Instead, this USB-connector makes it very easy to add wireless DMX to the unit! Just add the (optional) WTR-DMX DONGLE from BRITEQ® and you will get wireless DMX! Moreover, you will be able to connect other DMX-controlled equipment to the DMX-output so you can share the wireless DMX function with all connected units! No extra settings to be made in the setup menu, just follow the procedure in the user manual supplied with the WTR-DMX DONGLE from BRITEQ®. *The separate WTR-DMX DONGLE is available from WWW.BRITEQ-LIGHTING.COM (order code: 4645).*
7. **MAINS FUSE:** protects the unit in case of electrical problems, always use the prescribed fuse!
8. **MODE button:** used to browse the different functions in the menu.
9. **ENTER button:** used to confirm your choice or to enter the setup mode of a function.
10. **UP button:** to increase the values shown on the display.
11. **DOWN button:** to lower the values shown on the display.
12. **DISPLAY** shows the various menus and the selected functions.
13. **GOBO LOCK:** Used to lock/keep the gobo holder in place.
14. **GOBO HOLDER:** used to install the gobo in the projector.
15. **FOCUS knob:** used to adjust the sharpness of the projection.
16. **ZOOM knob:** used to make the projection smaller/bigger. Each time the projection size is changed, the focus should also be adjusted.
17. **FILTER FRAME lock:** At the front, you can insert an optional color filter into the filter frame. The locking mechanism keeps the filter frame in place.



SETUP MENU

Explanation of all setup menu functions.

MAIN MENU	SUB MENU	VALUES	Remarks	
<i>MODE-button</i>	<i>ENTER-button</i>	<i>UP/DOWN buttons</i>	<i>→ Buttons to press to use the setup menu.</i>	
DMX MODE	ADDR	001 - 512	Used to adjust the DMX address	
	CHAN	01 - 02 - 03 - 04	Used to choose one of the DMX-channel modes	
	DimSpeed	HALOGEN		slow and smooth dimmer behavior
		LED		fast dimmer behavior
	DimCurve	Linear		Linear dimmer curve
		Square		Square dimmer curve
		I. Square		Inverse Square dimmer curve
S-Curve			S-Curve	
SLAVE MODE			In this mode the projector copies the master	
DIMMER		000 - 100	Master dimmer while working in stand-alone mode	
	STROBE SPEED	00 - 15	Strobe speed in stand-alone mode (00 = no strobe)	
ROTATION		ON / OFF	switches the rotation on / off	
	SPEED	01 - 05	Adjusts the rotation speed	
	DIRECTION	LEFT / RIGHT	determines the direction of rotation.	
FADE RUN	SPEED	01 - 16	Adjust the light on/off fade speed	
OPTION	DISP	ON / OFF	Used to choose if the display turns dark or not	
	IR	ON / OFF	Used to switch the IR-remote receiver on / off	
	WDMX	ON / OFF	Used to switch the WDMX-dongle USB-input on / off	
	RESET	UP+DOWN	Press UP/DOWN buttons together for factory reset	

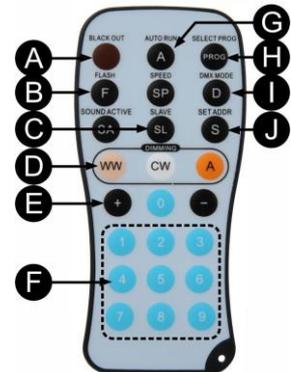
OPERATING INSTRUCTIONS

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

1) MANUAL MODE:

The unit runs automatically, according to the settings (dimmer, rotation, ...) made in the setup menu or with the included IR-remote:

- A. **BLACKOUT button:** switch the output on/off
- B. **STROBE button:** switch the strobe function on and use the +/--buttons (E) to change the speed. Set speed = 00 to stop the strobe function.
- C. **SLAVE button:** switch the projector to SLAVE mode.
- D. **WW / CW buttons:** switch the projector to steady output. Use the +/- buttons (E) to control the dimmer.
- E. **+/- buttons:** used to change the values of certain functions.
- F. **Numpad:** used to set the DMX-address and rotation speed.
- G. **AUTO RUN button:** switch the FADE RUN function on and use the +/- buttons (E) to change the speed.
- H. **PROG button:** start the GOBO rotation (LEFT of RIGHT direction) and set the speed with numpad buttons 0→5. Set speed = 00 to stop the GOBO rotation.
- I. **DMX MODE button:** press to set to DMX-mode. With the +/--buttons (E) you can also change the Dimmer speed and DMX channel mode.
- J. **SET ADDR button:** used to set the DMX address (use +/--buttons (E) or numpad buttons (F)).



2) MASTER / SLAVE MODE:

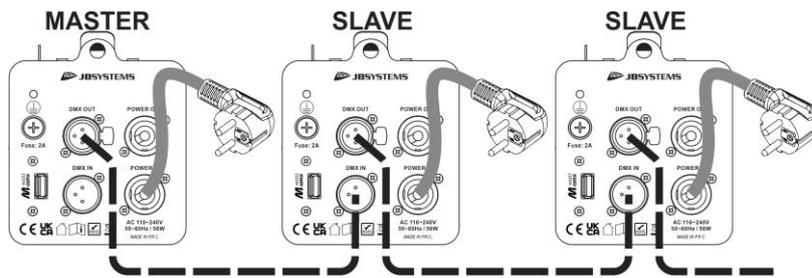
Several units can be connected together to create nice synchronized projections.

The (slave) units will follow the instructions given by the first unit (master) in the chain.

NOTE: it is important to execute the next steps in the correct order.

- Connect the DMX output of the master unit to the input of the first Slave unit.
- Connect the DMX output of the first Slave unit to the input of the second Slave unit, etc.
- Make the desired settings in the master unit (dimming, rotation speed, etc...)

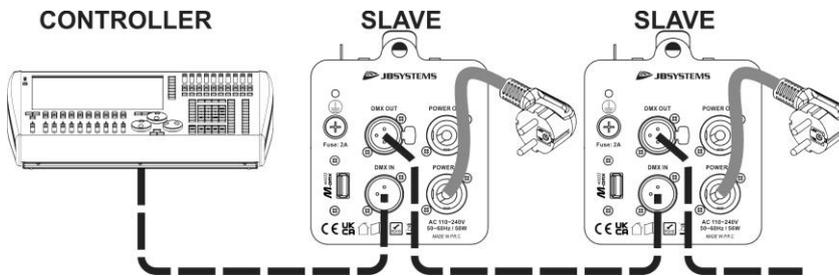
- All slave units must be set to [SLAVE MODE]



3) DMX CONTROLLED:

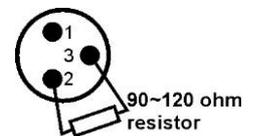
The projector can be controlled by any standard DMX-controller in different DMX-modes. To do this, you need to set the desired start address and DMX mode for each unit

- Press the [MENU] button until the display shows: [DMX MODE - ADDR: xxx]
- Use the [UP] or [DOWN] buttons to set the DMX address and press [ENTER] to confirm.
- The display shows: [DMX MODE - CHAN: xx] → press [UP/DOWN] to select the Channel mode.
- Press [ENTER] to confirm: press [UP/DOWN] to select the Dimmer speed → LED or Halogen.
- Press [ENTER] to confirm: press [UP/DOWN] to select the desired dimmer curve.
- Press [ENTER] to confirm: the projector is ready to be used in DMX mode.



Some more information on DMX512:

The DMX-protocol is a widely used high speed signal to control intelligent light equipment. You need to “daisy chain” your DMX controller and all the connected light effects with a good quality XLR M/F balanced cable. To prevent strange behavior of the light effects, due to interferences, you must use a 90Ω to 120Ω terminator at the end of the chain. Never use Y-splitter cables, this simply won't work!



Each effect in the chain needs to have its proper starting address so it knows which commands from the controller it has to decode.

[CHAN01] Mode:

DMX Channel	DMX-value	function
1	000-255	Dimmer

Note: rotation on/off, rotation speed and direction of the rotation can be adapted in the setup menu.

[CHAN02] Mode:

DMX Channel	DMX-value	function
1	000-255	Dimmer
2	000-031	Led OFF
	032-063	Led ON
	064-095	Strobe (slow to fast)
	096-127	Led ON
	128-159	Pulse effect (slow to fast)
	160-191	Led ON
	192-223	Random Strobe (slow to fast)
	224-255	Led ON

Note: rotation on/off, rotation speed and direction of the rotation can be adapted in the setup menu.

[CHAN03] Mode:

DMX Channel	DMX-value	function
1	000-255	Dimmer
2	000-005	No Rotation
	006-186	Gobo indexation
	187-189	No Rotation
	190-219	Left Rotation (fast to slow)
	220-222	No Rotation
	223-253	Right Rotation (slow to fast)
	254-255	No Rotation
3	000-005	GOBO Indexing disabled
	006-249	GOBO Indexing enabled
	250-255	GOBO Indexing disabled

[CHAN04] Mode:

DMX Channel	DMX-value	function
1	000-255	Dimmer
2	000-031	Led OFF
	032-063	Led ON
	064-095	Strobe (slow to fast)
	096-127	Led ON
	128-159	Pulse effect (slow to fast)
	160-191	Led ON
	192-223	Random Strobe (slow to fast)
	224-255	Led ON
	3	000-005
006-186		Gobo indexation
187-189		No Rotation
190-219		Left Rotation (fast to slow)
220-222		No Rotation
223-253		Right Rotation (slow to fast)
254-255		No Rotation
4	000-005	GOBO Indexing disabled
	006-249	GOBO Indexing enabled
	250-255	GOBO Indexing disabled

EXCHANGING A GOBO

The logo projector accepts metal gobos, glass gobos and self-printed gobos (laser printer *).
GOBO SIZE: Ø 25,7mm / IMAGE SIZE: Ø 19mm

- Turn the GOBO LOCK knob (13) over 90° counterclockwise.
- Gently pull the GOBO HOLDER (14) upward to remove it from the housing.
- Remove the fixation ring of the gobo. You can do this easily with a small screwdriver.
- Remove the gobo and insert the new gobo with the black side facing the back of the projector.
- Press the fixation-ring together and insert it in front of the gobo.
- Make sure that the end of the fixation ring locks in the groove of the gobo holder.
- Press the GOBO HOLDER (14) gently back in the housing
- Turn the GOBO LOCK knob (13) over 90° clockwise.
- Done!

Note: if you want to print the gobos yourself, please download the instructions from the product page on our website. (www.jb-systems.eu)

MAINTENANCE

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

During inspection the following points should be checked:

- All screws used for installing the device and any of its parts should be tightly fastened and may not be corroded.
- Housings, fixations and installations spots (ceiling, truss, suspensions) should be totally 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.
- In order to protect the device from overheat 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 normal glass cleaning products.
 - Always dry the parts carefully.

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

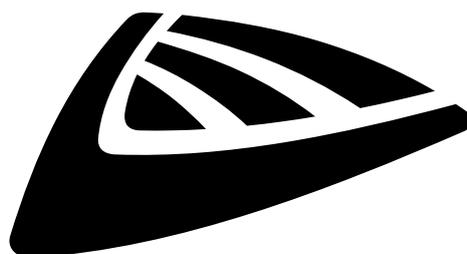
SPECIFICATIONS

This unit is radio-interference suppressed. This product meets the requirements of the current European and national guidelines. Conformity has been established and the relevant statements and documents have been deposited by the manufacturer. This device was designed to produce decorative effect lighting and is used in light show systems.

Mains Input:	100-240Vac, 50/60Hz
Power consumption:	56 Watt
Fuse:	250V 2A slow blow (20mm glass)
Power linking (PowerCON in/out):	max. linking load = 10A
IR-Remote battery:	CR2025 (3V)
LED Source:	50 W cold white (11'000 K)
Beam Angle:	20° to 34°
Gobo Size:	External diameter = 25.7mm / image = 19mm / thickness = max 1mm
Size:	500x150x100mm
Weight:	3 kg

Every information is subject to change 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!

WWW.JB-SYSTEMS.EU

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