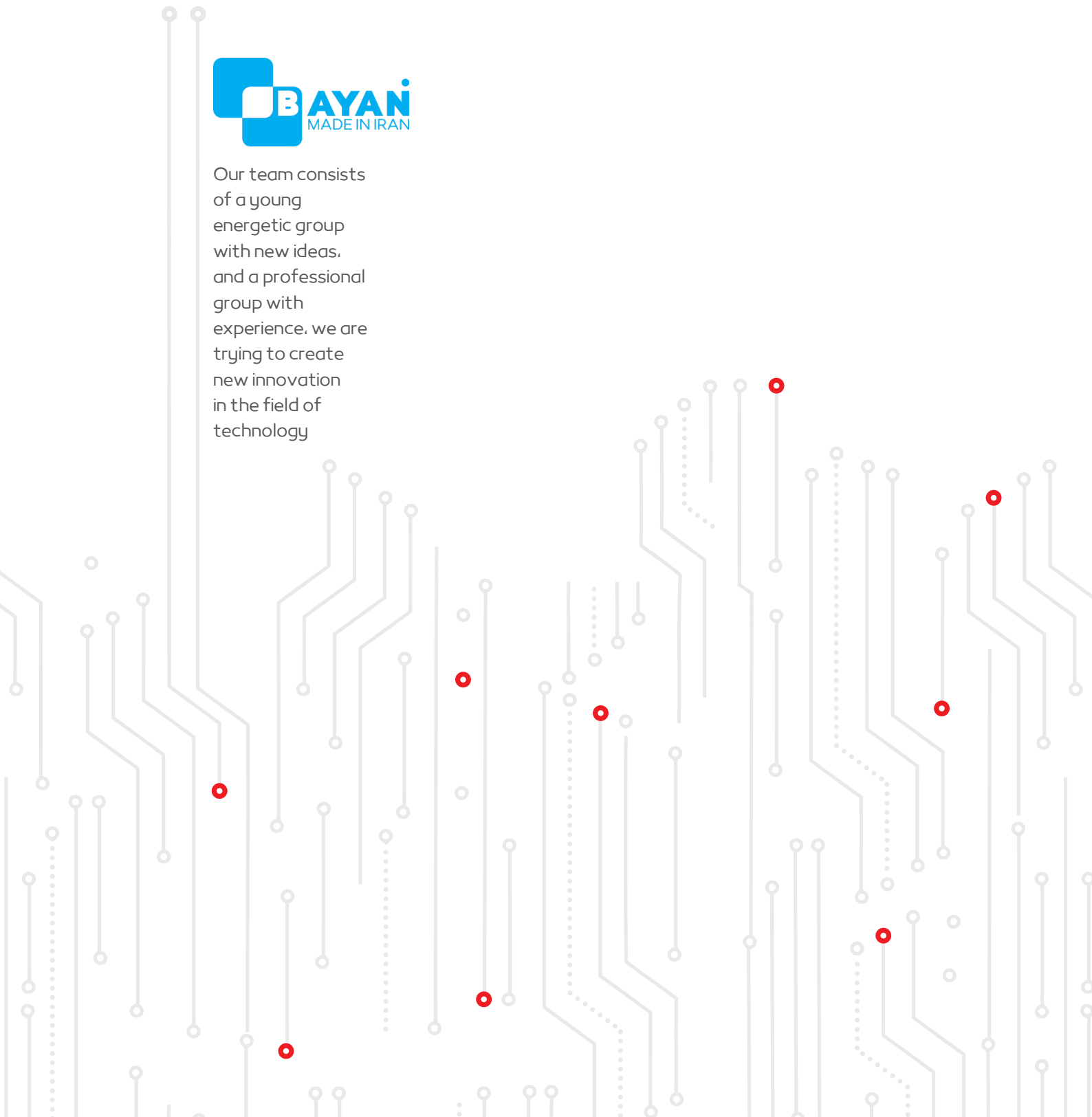


GENERAL CATALOG 2024





Our team consists
of a young
energetic group
with new ideas,
and a professional
group with
experience. we are
trying to create
new innovation
in the field of
technology





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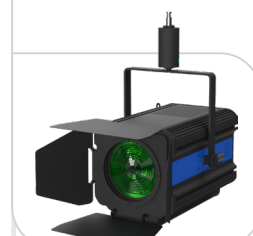
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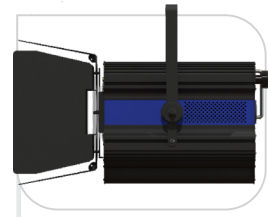
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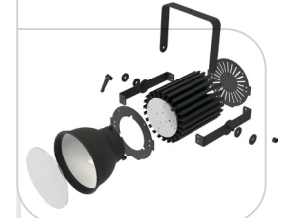
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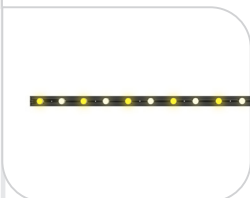
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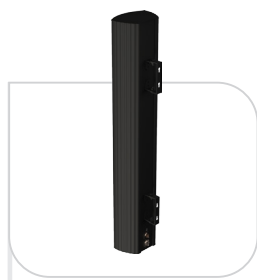
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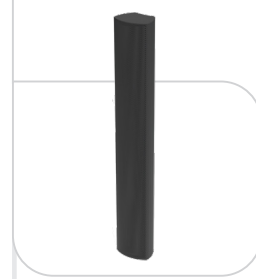
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ABOUT

Bayan is a Kurdish language word, meaning sunrise and morning. Bayan also means Aurora; In the light of the aurora, you can see all the colors.

A team of specialists refines all Bayan product developments to maximize functionality,

user-friendliness, ergonomics, and aesthetics. The main objective of Bayan engineers is to develop systems that incorporate state-of-the-art technology and complex functions, yet are easy for the user to operate.

Bayan employees are characterized by their vast technical knowledge, extensive training qualifications, and an extraordinary sense of team spirit. We have gathered a powerful team of electrical, mechanical, computer, and IT engineers. In addition, most employees have achieved a wealth of practical experience working with Bayan lighting either as an optical engineer or a studio engineer. We offer a comprehensive service for implementing a wide variety of light requirements. The light experts at Bayan can assist the customer throughout the acoustic planning phase and provide support with lighting system calibration and the final system inspection at the venue.

Our Vision

At Bayani, innovation is at the heart of everything we do. We continuously explore new frontiers in broadcast technology, striving to empower media professionals with tools that enable them to tell their stories with Clarity, creativity, and confidence.

Looking ahead, our commitment is to create products that not only address the needs of today but also anticipate the challenges of tomorrow.

Why

We understand that having the right tools makes all the difference. That's why every Bayani product is meticulously designed and crafted with precision, care, and the finest materials.

What Sets Us Apart:

- **Innovative Technology:** We stay at the forefront of broadcast advancements with cutting-edge Solutions.

- **Over 40 Years of Expertise:** Decades of experience in tackling the unique challenges of media and broadcasting.

- **Persian Inspiration:** Drawing from our heritage, we embody a commitment to quality and innovation in lighting.

- **Global Presence:** Trusted by media Professionals and Broadcasters around the world.





BAYANI



95% | Seeming Quality

98% | Appropriate Price
Customer Satisfaction

100% | Creativity
Efficiency

Our Products

Professional Studio Lighting

Our lighting solutions provide precise illumination for any set, ensuring optimal production quality in every frame.

Microphones

Engineered for exceptional clarity and precision, Bayani microphones deliver unparalleled audio performance, capturing every nuance.

Speakers

Designed for accurate sound reproduction, our

speakers produce rich, clear audio for both live and studio environments.

Audio Mixers

Whether for live broadcasts or studio recordings, Bayani mixers offer powerful control and flexibility for pristine sound management.

Intercom Systems

Seamless communication is critical in complex production environments. Our intercom systems facilitate efficient coordination between team members with ease and reliability.



LIGHTING PRODUCTS

 bayannoor.ir

We have passionately designed a wide and versatile range of LED lights and accessories that empower creators to turn their dreams into reality.

Our attention to product details, user experience, and quality control is so profound that it can be described as a true passion and commitment.

Moreover, we are deeply committed to listening to and responding to our customers' voices; their needs and desires hold special significance for us, and we are constantly striving to provide the best solutions for them.

Portable Lighting

BSS-BSOW50



Overview

Features:

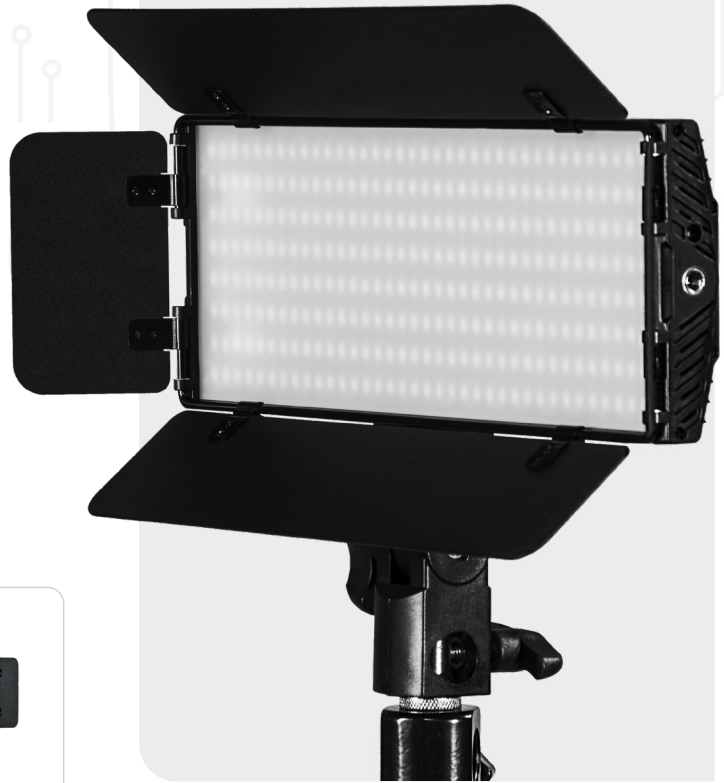
- CRI: R ≥ 98
- TLCI: R ≥ 99
- Four Barndoors
- Beam Angle: 120°
- C.C.T: 3200 K to 5600 K Adjustable
- Optional Battery Charger and Battery
- Special Radio Remote Control (optional)

Technical Specifications:

- Power Input: 13-19 V. DC
- Power Consumption: 54 W
- Total Weight Including Barndoor: 2000 g
- Product Size: 190 mm x 210 mm x 45 mm
- Brightness Dimming: 10% - 99%
- (manually or wireless)

Portable Lighting

● BSS-BSOW30



Overview

Features:

- CRI: R ≥ 98
- TLCI: R ≥ 99
- Four Barndoors
- Beam Angle: 120°
- Optional Battery Charger and Battery
- Special Radio Remote Control (optional)
- Light Source: SMD LED C.C.T: 3200 K to 5i5600 K adjustable

Technical Specifications:

- Power Input: 13-17 V, DC
- Power Consumption: 30W
- Brightness Dimming: 10% - 99%
- Total Weight Including Barndoor: 580 g
- Product Size: 250 mm x 95 mm x 30 mm

Portable Lighting

● BSS-BSOW15



Overview

Features:

- CRI: R ≥ 98
- TLCI: R ≥ 99
- Four Barndoors
- Beam Angle: 120°
- Optional Battery Charger and Battery
- Special Radio Remote Control (optional)
- Light Source: SMD LED C.C.T: 3200 K to 5600 KiK adjustable

Technical Specifications:

- Power Input: 13-17 V, DC
- Power Consumption: 15W
- Brightness Dimming: 10% - 99%
- Total Weight Including Barndoor: 360 g
- Product Size: 140 mm x 95 mm x 28 mm

LED Studio Spot Light

● BN-S20TK2



Overview

Features:

- LCD Display
- Dust Resistant
- 4 - leaf Barndoors
- EMI / EMC Resistant
- High Noise Immunity
- Movable Fresnel Lens
- Dimmer Connector: 5 - Pin XLR
- Dimming Manually or through Dimmers
- High Energy Efficiency. Greater than 90%
- High Color Rendering Index (CRI. Ra \geq 98), TLCI \geq 99
- Light Dimmers Communication through DMX Protocol
- Separate Brightness Dimming address and moving control
- Saving The Most Recent State of Device in Permanent Memory
- Brightness Range between 0 - 255 with a

super Smooth Dimming Manually or Through dimmers

- Tilt Moving (up and down) up to 100 Degree and Pan Moving (left and right) up to 100 Degree. through Customer Desirable Method (HMI, joystick, app on tablet, pc. etc)

Technical Specifications:

- Weight: 12.3 kg
- Lens Diameter: 200 mm Φ
- Optical system: Focusable Fresnel
- Estimated LED Lifetime: 50.000 Hours
- Input Voltage: 110 - 240 Vac. 50/60 Hz
- Dimension: 470mm x 260mm x 285mm
- Maximum Working Environment Humidity : 8i85%
- Working Environment Temperature: -20°C to 6i60°C
- Maximum Power Consumption: 100 Watt for each channel. 200 Watt for both Channel

LED Studio Spot Light

● **BN-S15K2**



● Overview

Features:

- Dust Resistant
- 4 - leaf Barndoors
- EMI / EMC Resistant
- High Noise Immunity
- Movable Fresnel Lens
- Dimmer Connector: 5 - Pin XLR
- Dimming Manually or through Dimmers
- High Energy Efficiency, Greater than 90%
- High Color Rendering Index (CRI, Ra \geq 98), TLCI \geq 99
- Light Dimmers Communication through DMX Protocol
- Separate Brightness Dimming address and moving control
- Saving The Most Recent State of Device in Permanent Memory

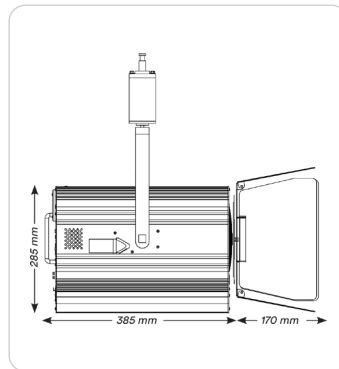
- Brightness Range between 0 - 255 with a Super Smooth Dimming Manually or Through dimmers

Technical Specifications:

- Weight: 6.4 kg
- Lens Diameter: 175 mm Φ
- Optical system: Focusable Fresnel
- Estimated LED Lifetime: 50.000 Hours
- Input Voltage: 110 - 240 Vac, 50/60 Hz
- Dimension: 320mm x 270mm x 240mm
- Maximum Working Environment Humidity : 8i85%
- Working Environment Temperature: -20°C to 6i60°C
- Maximum Power Consumption: 75 Watt for each Channel, 110 Watt for both Channel

LED Studio Spot Light

BN-S12TRGB



Overview

Features:

- Stable and Precise LED Driver
- Save Brightness Values in Seven Options
- 4.3 inch Color Screen LCD and Capacitive Touch Screen
- A Mixer Page to Dim Brightness of other Lighting Devices
- Separate Brightness Dimming address and moving control
- Display and Save Projector and LED Working Time Separately
- A PTZ Page to Save Position of other Lighting Devices (optional)
- Light Dimmers Communication through DMX Protocol or Wireless (Optional)
- Capable of Tilt Moving (up and down) up to

1100 Degree. Pan Moving (left and right) up to 150 degree and Zoom. Manually or by J-joystick

Technical Specifications:

Weight: 9.7 kg

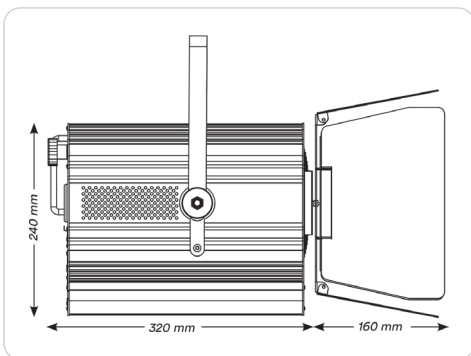
- Lens Diameter: 175 mm Φ
- Optical System: Focusable Fresnel
- Estimated LED Lifetime: 50.000 Hours
- Input Voltage: 110 – 240 Vac. 50/60 Hz
- Dimension: 385mm x 260mm x 285mm
- Maximum Power Consumption: 120 Watt
- Maximum Working Environment Humidity: %85%
- Maximum Working Environment Temperature: -20°C to 60°C





LED Studio Spot Light

BN-S10



Overview

Features:

- LCD Display
- Four Barndoors
- Fix Fresnel Lens
- High Energy Efficiency, Greater than 90%
- High Color Rendering Index (CRI, Ra \geq 98), TLCI \geq 99
- Light Dimmers Communication through DMX Protocol
- All of projectors interface connector (XLR, Power, etc.) are Customizable and wireless (optional) Brightness Range between 0 -255 with a super Smooth Dimming Manually or through dimmers

Technical Specifications:

- Weight: 6.4 kg
- Lens Diameter: 175 mm Φ
- Power Consumption: 100 Watt
- Optical System: Focusable Fresnel
- Input Voltage: 110-240 Vac. 50/60 Hz
- Estimated LED Lifetime: 50.000 Hours
- Dimension: 320mm x 270mm x 240mm
- Maximum Working Environment Humidity: 8r85%
- Maximum Working Environment Temperature: -20°C to 60°C



LED Studio Spot Light

● **BN-S8T**



● Overview

Features:

- LCD Display
- Four Barndoors
- Movable Fresnel Lens
- High Energy Efficiency, Greater than 90%
- High Color Rendering Index (CRI, Ra \geq 98)
TLCI \geq 99
- Light Dimmers Communication through DMX Protocol
- Separate Brightness Dimming Address and joystick Control
- Saving the most Recent State of Device in permanent memory
- All of Projectors Interface Connector (XLR, Power, etc) are Customizable and wireless (Optional)
- Brightness range between 0 - 255 with

a super smooth Dimming manually or through dimmers

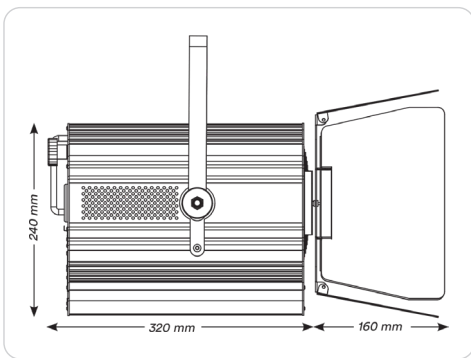
- Capable of tilt moving (up and down) up to 100 degree, pan moving (left and right) up to 150 degree and zoom, manually or by Joystick

Technical Specifications:

- Weight: 9.7 kg
- Lens Diameter: 175 mm Φ
- Optical System: Focusable Fresnel
- Estimated LED Lifetime: 50,000 Hours
- Input Voltage: 110 - 240 Vac, 50/60 Hz
- Dimension: 385mm x 260mm x 280mm
- Maximum Power Consumption: 80 Watt
- Maximum Working Environment Humidity: 85%
- Maximum Working Environment Temperature: -20°C to 60°C

LED Studio Spot Light

BN-S8



Overview

Features:

- LCD Display
- Four Barndoors
- Movable Fresnel Lens
- High Energy Efficiency, Greater than 90%
- High Color Rendering Index (CRI, Ra \geq 98)
TLCI \geq 99
- Light Dimmers Communication through DMX Protocol
- Separate Brightness Dimming Address and J-joystick Control
- Saving the most Recent State of Device in permanent memory
- All of Projectors Interface Connector (XLR, Power, etc) are Customizable and wireless (optional)

- Brightness range between 0 - 255 with a super smooth Dimming manually or through Dimmers

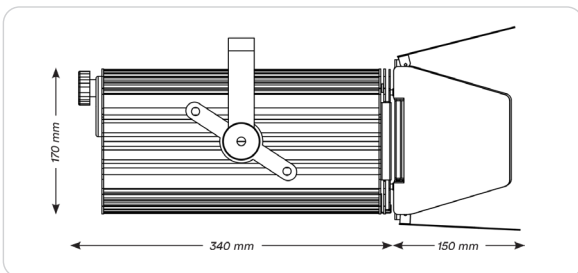
Technical Specifications:

- Weight: 6.4 kg
- Lens Diameter: 175 mm Φ
- Optical System: Focusable Fresnel
- Estimated LED Lifetime: 50,000 Hours
- Input Voltage: 110 - 240 Vac, 50/60 Hz
- Dimension: 320mm x 270mm x 240mm
- Maximum Power Consumption: 80 Watt
- Maximum Working Environment Humidity: 85%
- Maximum Working Environment Temperature: -20°C to 60°C



LED Studio Spot Light

● BN-S5



Overview

Features:

- LCD Display
- 4-leaf Barndoors
- Movable Fresnel Lens
- High Energy Efficiency, Greater than 90%
- High Color Rendering Index (CRI, Ra \geq 98), TLCI \geq 99
- Light Dimmers Communication through DMX Protocol
- All of Projectors Interface Connector (XLR, Power, etc.) are Customizable and wireless (optional)
- Brightness Range between 0 - 255 with a

Super Smooth Dimming Manually or through Dimmers

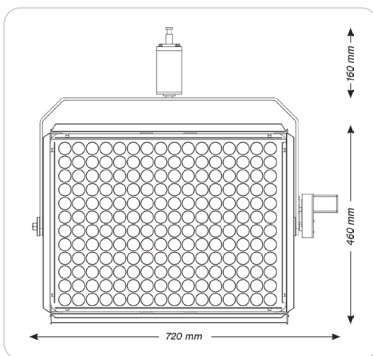
Technical Specifications:

- Weight: 5.2 kg
- Lens Diameter: 150 mm Φ
- Power Consumption: 50 Watt
- Optical System: focusable Fresnel
- Input Voltage: 100-240 Vac, 50/60 Hz
- Dimension: 340mm x 190mm x 170mm
- Maximum Working Environment Humidity: 85%
- Maximum Working Environment Temperature: -20°C to 60°C



LED Studio Spot Light

BN-F25D



Overview

Features:

- LCD Display
- Four Barndoors
- Opt Diffusion Panel
- High Light Efficiency
- Fan-less Conditionin. Noiseless
- Separated DMX Channels for each color
- Light Dimmers Communicating through DMX Protocol
- High Color Rendering Index (CRI, Ra \geq 98), T L C TLCI \geq 99
- Two Type of LEDs with Color Temperature Ranged between 3200 k or 5600 k or both
- All of Projectors Interface Connector (XLR, P Power, etc.) are Customizable and wireless (optional)

- Possibility of Installing Lens on each LED with Selectable Angle between 60° to 120° b aibased on customer order.

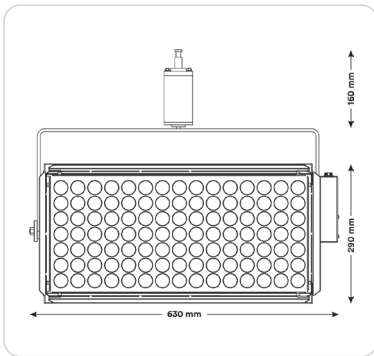
Technical Specifications:

- Weight: 16.5 kg
- Estimated LED Lifetime: 50.000 Hours
- Dimension: 720mm x 460mm x 95mm
- Input Voltage: 110 – 240 Vac. 50/60 Hz
- Maximum Power Consumption: 250 Watt
- Maximum Working Environment Humidity: 85%
- Maximum Working Environment Temperature: -20° to 60°C



LED Studio Spot Light

BN-F15D



Overview

Features:

- LCD Display
- Four Barndoors
- Of Diffusion Panel
- High Light Efficiency
- Fan-less Conditioning, Noiseless
- Separated DMX Channels for each color
- High Color Rendering Index (CRI, Ra \geq 98), T L C TLCI \geq 99
- Light Dimmers Communicating through DMX Protocol
- Two Type of LEDs with Color Temperature Ranged between 3200 k or 5600 k or both
- All of Projectors Interface Connector (XLR, Power, etc.) are Customizable and wireless (optional)

- Possibility of Installing Lens on each LED with a Selectable Angle between 60° to 120° Based on Customer Order

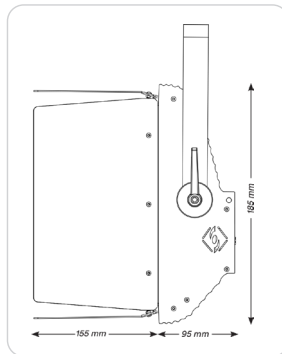
Technical Specifications:

- Weight: 11.3 Kg
- Estimated LED Lifetime: 50.000 Hours
- Input Voltage: 110 - 240 Vac, 50/60HZ
- Dimension: 630mm x 290mm x 95mm
- Maximum Power Consumption: 150 Watt
- Maximum Working Environment Humidity: 85%
- Working Environment Temperature: -20°C to -60°C



LED Studio Spot Light

● BN-F12RGB



Overview

Features:

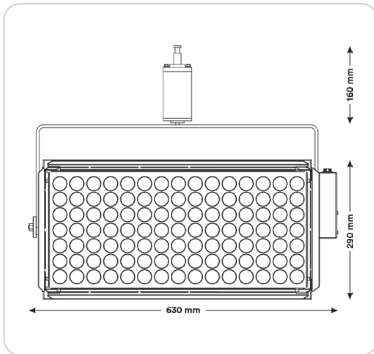
- High Light Efficiency
- Fan-less Conditioning, Noiseless
- Light Dimmers Communicating through DMX Protocol
- All of Projectors Interface Connector (XLR, P Power, etc.) are Customizable and wireless (optional)

Technical Specifications:

- Weight: 8 kg
- Input Voltage: 110 – 240 Vac, 50/60 Hz
- Dimension: 400mm x 185mm x 95mm
- Maximum Power Consumption: 360 Watt
- Estimated RGB LED Lifetime: 50,000 Hours
- Maximum Working Environment Humidity: 85%
- Working Environment Temperature: -20°C to 60°C

LED Studio Spot Light

BN-F12K1



Overview

Features:

- LCD Display
- Four Barndoors
- Oft Diffusion Panel
- High Light Efficiency
- Fan-less Conditionin. Noiseless
- Separated DMX Channels for each color
- High Color Rendering Index (CRI, Ra \geq 98), TLCI \geq 99
- Light Dimmers Communicating through DMX Protocol
- Separate Brightness Dimming address and moving Control
- Saving The Most Recent State of projector in Permanent Memory
- Capable of Dimming manually or through DMX 512 between Range 0 - 255
- Two Type of LEDs with Color Temperature

Ranged between 3200 k to 5600 k or both

- All of Projectors Interface Connector (XLR, Power, etc.) are Customizable and wireless (optional)
- Possibility of Installing Lens on each LED with a selectable Angle between 60° to 120° b-based on customer order

Technical Specifications:

- Weight: 7 kg
- Estimated LED Lifetime: 50.000 Hours
- Input Voltage: 110 - 240 Vac, 50/60 Hz
- Dimension: 400mm x 185mm x 95mm
- Maximum Power Consumption: 120 Watt
- Maximum Working Environment Humidity:85%
- Working Environment Temperature: -20°C to 60°C

LED Studio Spot Light

BN-F12DK2



Overview

Features:

- LCD Display
- Four Barndoors
- Oft Diffusion Panel
- High Light Efficiency
- Fan-less Conditionin. Noiseless
- Separated DMX Channels for each color
- High Color Rendering Index (CRI, Ra \geq 98), TLCI \geq 99
- Light Dimmers Communicating through DMX Protocol
- Separate Brightness Dimming address and Moving Control
- Saving The Most Recent State of projector in Permanent Memory
- Capable of Dimming manually or through DMX 512 between Range 0 - 255
- Two Type of LEDs with Color Temperature Ranged between 3200 k to 5600 k or both

- All of Projectors Interface Connector (XLR, Power, etc.) are Customizable and wireless (optional)
- Possibility of Installing Lens on each LED with selectable Angle between 60° to 120° b-based on customer order
- Capable of Tilt Moving (up and down) up to 100 degree, Pan Moving (left and right) up to 100 degree and zoom, manually or by joystick

Technical Specifications:

- Weight: 8.6 kg
- Estimated LED Lifetime: 50.000 Hours
- Input Voltage: 110 - 240 Vac, 50/60 Hz
- Dimension: 460mm x 290mm x 95mm
- Maximum Power Consumption: 120 Watt
- Maximum Working Environment Humidity:85%
- Working Environment Temperature: -20° C to 60° C



LED Studio Spot Light

● BN-A100B1

● Overview

Features:

- LPW ≥ 100
- LCD Display
- Flicker Less
- Dust Resistant
- 4 - leaf Barndoors
- High Light Efficiency
- High Noise Immunity
- EMI / EMC Resistant
- Software update USB
- Dimmer Connector: 5 - Pin XLR
- Fanless Conditionin. Noiseless
- Extimate color shift over lifetime: $\pm 5\%$
- Light Dimmers Communicating through DMX P Protocol
- Separate Brightness Dimming Adress and Moving Control
- High Color Rendering Index (CRI, Ra ≥ 98), T L C TLCI ≥ 99 , SSI ≥ 90
- Saving The Most Recent State of Device in Permanent Memory
- Dimming Manually or Through DMX 512 b e t between 0 - 255 Range

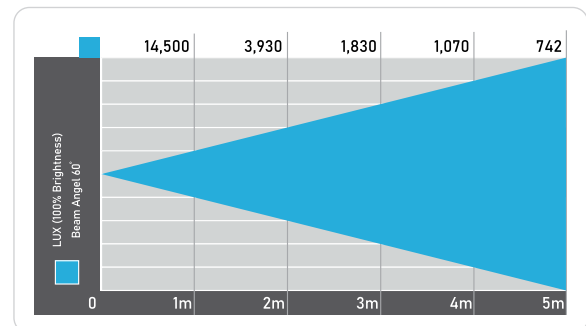
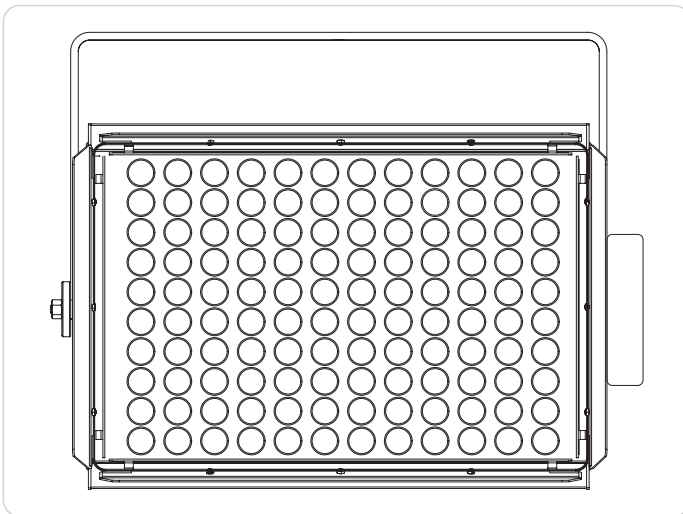
- All of Projectors Interface Connector (XLR. P o Power, etc.) are Customizable
- Two Type of LEDs with Color Temperature Ranged between 3200 k to 5600 k
- Possibility of Installing Lens on each LED with Selectable Angle between 30° and 120° b a s based on customer order.
- Tilt Moving (up and down) up to 100 Degree a n and Pan Moving (left and right) up to 100 D e g Degree. Through Customer Desirable Method (HMI, joystick, app on tablet, pc etc)

Technical Specifications:

- Weight: 9.2 kg
- Estimated LED Lifetime: 50.000 Hours
- Input Voltage: 110 - 240 Vac. 50/60 Hz
- Dimension: 400mm x 285mm x 95mm
- Maximum Power Consumption: 120 Watt
Maximum Working Environment Humidity: 85%
Working Environment Temperature: -20°C to 60°C

LED Studio Spot Light

● BN-A100C1



● Overview

Features:

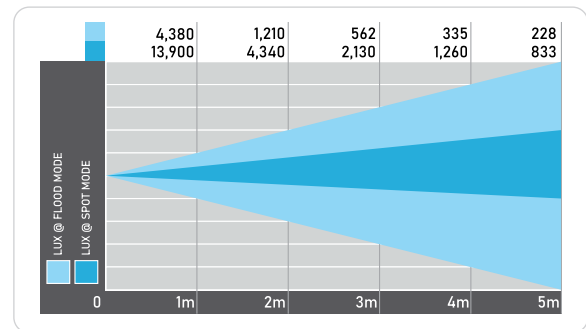
- Separate brightness dimming address and joystick control
- Saving the Most Recent State of Projector in Permanent Memory
- Capable of dimming manually or through D MDMX mx512 between 0 - 100 Range
- Capable of Tilt Moving (up and down) up to 10 100 Degree. Pan Moving (left and right) up to 1100 Degree and Zoom. Manually or by J JoysJoystick

● Technical Specifications:

- Weight: 8.6Kg
- Power Consumption: 100 Watt
- Estimated LED Lifetime: 50,000 Hours
- Input Voltage: 110 - 240 Vac. 60/50HZ
- Maximum Working Environment Humidity: 85%
- Working Environment Temperature: -20°C to 60°C

LED Studio Spot Light

● BN-A100B1



Overview

Features:

- Movable Fresnel Lens
- Separate Brightness Dimming Address and joystick Control
- Saving the Most Recent State of Device in Permanent Memory
- Certificates: ISO 9001:2015 / ISO 14001:2015 / OHSAS 45001:2018
- Capable of dimming manually or through DiDMX 512 between 0 - 100 Range
- Capable of Tilt Moving (up and down) up to 1100 Degree, Pan Moving (left and right) up to 1150 Degree and Zoom .Manually or by HMI

Technical Specifications:

- Lens Diameter: 175 mm Φ
- Optical System: Focusable Fresnel
- Estimated LED Lifetime: 50.000 Hours
- Input Voltage: 110 - 240 Vac. 60/50HZ
- Dimension: 380mm x 257mm x 280mm
- Maximum Power Consumption: 80 Watt
- Maximum Working Environment Humidity:85%
- Working Environment Temperature: -20°C to 60°C



LED Studio Spot Light

● BN-E100B1

● Overview

Features:

- LCD Display
- Dust Resistant
- 4 - leaf Barndoors
- EMI / EMC Resistant
- High Noise Immunity
- Movable Fresnel Lens
- Dimmer Connector: 5-Pin XLR
- Dimming Manually or through Dimmers
- High Energy Efficiency, Greater than 90%
- High Color Rendering Index (CRI, Ra \geq 97), TLCI \geq 98
- Light Dimmers Communication through DMX Protocol
- Separate Brightness Dimming Address and Jr Joystick Control
- Saving the Most Recent State of Device in Permanent Memory
- Brightness Range between 0 - 255 with a

- Super Smooth Dimming Manually or through Dimmers
- Tilt Moving (up and down) up to 100 Degree. Pan Moving (left and right) up to 150 Degree and Zoom. Manually or by Joystick

Technical Specifications:

- Weight: 14.23 \pm 0.1 kg
- Lens Diameter: 175 mm Φ
- Optical System: Focusable Fresnel
- Input Voltage: 110-240 Vac, 50/60Hz
- Estimated LED Lifetime: 50,000 Hours
- Dimension: 380mm x 257mm x 280mm
- Maximum Power Consumption: 75 Watt for each Channel, 110 Watt for both Channel
- Maximum Working Environment Humidity: 85%
- Working Environment Temperature: -20°C to 60°C





LED Studio Spot Light

● BN-E100E2

● Overview

Features:

- LCD Display
- Dust Resistant
- 4 - leaf Barndoors
- EMI / EMC Resistant
- High Noise Immunity
- Movable Fresnel Lens
- Dimmer Connector: 5-Pin XLR
- Dimming Manually or through Dimmers
- High Energy Efficiency, Greater than 90%
- High Color Rendering Index (CRI, Ra \geq 97), TLCI \geq 98
- Light Dimmers Communication through DMX Protocol
- Separate Brightness Dimming Address and Jr Joystick Control
- Saving the Most Recent State of Device in Permanent Memory
- Brightness Range between 0 - 255 with a

- Super Smooth Dimming Manually or through Dimmers
- Tilt Moving (up and down) up to 100 Degree. Pan Moving (left and right) up to 150 Degree and Zoom. Manually or by Joystick

Technical Specifications:

- Weight: 14.23 \pm 0.1 kg
- Lens Diameter: 175 mm Φ
- Optical System: Focusable Fresnel
- Input Voltage: 110-240 Vac, 50/60Hz
- Estimated LED Lifetime: 50,000 Hours
- Dimension: 380mm x 257mm x 280mm
- Maximum Power Consumption: 75 Watt for each Channel, 110 Watt for both Channel
- Maximum Working Environment Humidity: 85%
- Working Environment Temperature: -20°C to 60°C



LED Studio Spot Light

● **BN-E120B1**

● **Overview**

Features:

- LCD Display
- Dust Resistant
- 4 - leaf Barndoors
- EMI / EMC Resistant
- High Noise Immunity
- Movable Fresnel Lens
- Dimmer Connector: 5-Pin XLR
- Dimming Manually or through Dimmers
- High Energy Efficiency, Greater than 90%
- High Color Rendering Index (CRI, Ra \geq 97), TLCI \geq 98
- Light Dimmers Communication through DMX Protocol
- Separate Brightness Dimming Address and Jr Joystick Control
- Saving the Most Recent State of Device in Permanent Memory
- Brightness Range between 0 - 255 with a

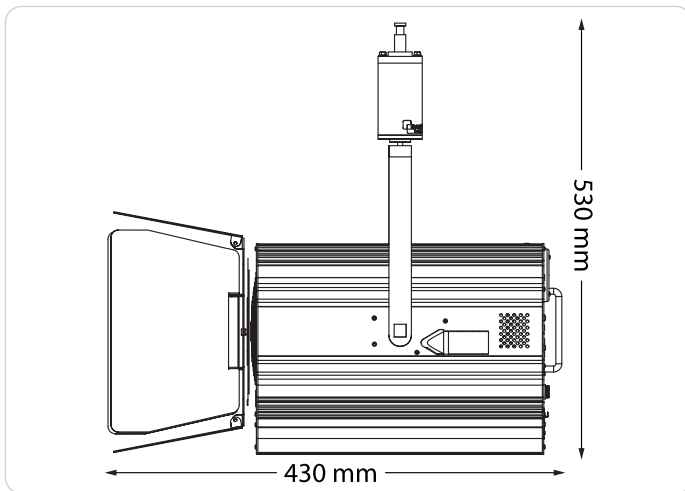
- Super Smooth Dimming Manually or through Dimmers
- Tilt Moving (up and down) up to 100 Degree. Pan Moving (left and right) up to 150 Degree and Zoom. Manually or by Joystick

Technical Specifications:

- Weight: 14.23 \pm 0.1 kg
- Lens Diameter: 175 mm Φ
- Optical System: Focusable Fresnel
- Input Voltage: 110-240 Vac, 50/60Hz
- Estimated LED Lifetime: 50,000 Hours
- Dimension: 380mm x 257mm x 280mm
- Maximum Power Consumption: 75 Watt for each Channel, 110 Watt for both Channel-
- Maximum Working Environment Humidity: 85%
- Working Environment Temperature: -20°C to 60°C

LED Studio Spot Light

● BN-E120F1



● Overview

Features:

- Stable and Precise LED Driver
- 4.3 inch Color Screen LCD and Capacitive Touch Screen
- Light Dimmers Communication through DMX Protocol or Wireless (Optional)
- Display and Save Projector and LED Working Time Separately
- Save Brightness Values in Seven Options
- A PTZ Page to Save Position of Other Lighting Devices (optional)
- A Mixer Page to Dim Brightness of Other Lighting Devices
- Certificates: ISO 9001:2015 / ISO 4001:2015 /

OHSAS 45001:2018

- Capable of Tilt Moving (up and down) up to 100 Degree Pan Moving (left and right) up to 150 Degree and Zoom Manually or by Joystick

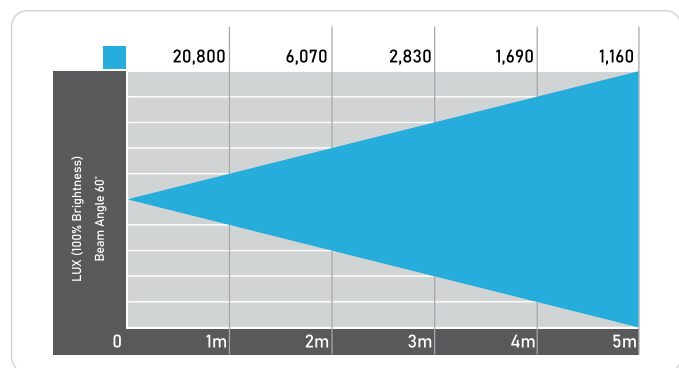
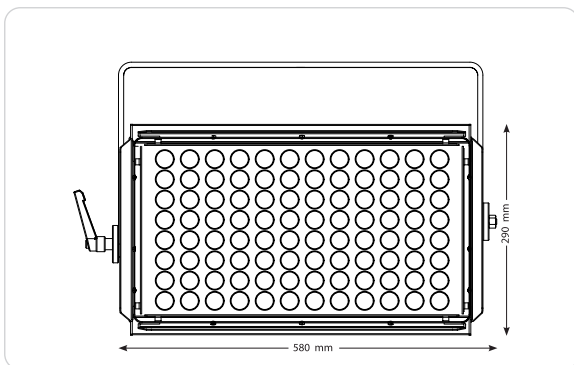
Technical Specifications:

- Lens Diameter: 175 mm Φ
- Optical System: Focusable Fresnel
- Estimated LED Lifetime: 50.000 Hours
- Maximum Temperature of device: 60°C
- Maximum Power Consumption: 120 Watt
- Maximum Working Environment Humidity: 85%
- Working Environment Temperature: -20°C to 60°C



LED Studio Spot Light

BN-F15



Overview

Features:

- LCD Display
- Four Barndoors
- Of Diffusion Panel
- High Light Efficiency
- Fan-less Conditioning. Noiseless
- Separated DMX Channels for each color
- High Color Rendering Index (CRI. Ra \geq 98). TLCI \geq 99
- Light Dimmers Communicating through DMX Protocol
- Two Type of LEDs with Color Temperature Ranged between 3200 k or 5600 k or both
- All of Projectors Interface Connector (XLR. Power. etc.) are Customizable and wireless

(optional)

- Possibility of Installing Lens on each LED with Selectable Angle between 60° to 120° Based on Customer Order

Technical Specifications:

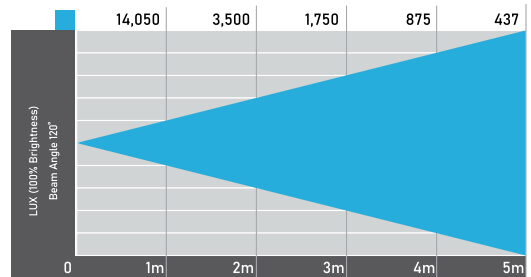
- Weight: 8.5 Kg
- Estimated LED Lifetime: 50.000 Hours
- Input Voltage: 110 - 240 Vac. 50/60HZ
- Dimension: 580mm x 290mm x 95mm
- Maximum Power Consumption: 150 Watt
- Maximum Working Environment Humidity: 85%
- Working Environment Temperature: -20°C to 60°C





LED Studio Spot Light

● BN-F12032



● Overview

Features:

- LCD Display
- Four Barndoos
- High Light Efficiency
- Fan-less Conditioning, Noiseless
- High Color Rendering Index (CRI, Ra \geq 98), TLCI \geq 99
- All of Projectors Interface Connector (XLR, Power, etc.) are Customizable and wireless (optional)
- Possibility of Installing Lens on each LED with Selectable Angle between 60° until 120° based on Customer Order

Technical Specifications:

- Weight: 5.6 Kg
- Estimated LED Lifetime: 50.000 Hours
- Input Voltage: 110 - 240 Vac, 50/60HZ
- Dimension: 150mm x 505mm x 175mm
- Maximum Power Consumption: 120 Watt
- Maximum Working Environment Humidity: 85%
- Working Environment Temperature: -20° C to 60° C



LED Studio Spot Light

● **BN-100FL**



● Overview

Features:

- LCD Display
- Convex Lenses
- High Energy Efficiency. Greater than 90%
- High Color Rendering Index (CRI, Ra \geq 98), TLCI \geq 99
- Light Dimmers Communication through DMX Protocol and HMI
- All of projectors interface connector (XLR, Pipower, etc.) are Customizable and wireless (optional)
- Brightness Range between 0 - 255 with a super Smooth Dimming manually or through dimmers.

Technical Specifications:

- Weight: 12,5 kg
- Beam angle range: 15° to 70° or 12° to 60°
- Power Consumption: 100 Watt
- Optical System: Focusable convex
- Input Voltage: 110-240 Vac, 50/60 Hz
- Estimated LED Lifetime: 50.000 Hours
- Dimension: 570mm x 275mm x 230mm
- Maximum Working Environment Humidity: 85%
- Working Environment Temperature: -20°C to 60°C



LED Studio Spot Light

● BN-PL100B1

● Overview

Features:

- LCD Display
- Dust Resistant
- 4 - leaf Barndoors
- EMI / EMC Resistant
- High Noise Immunity
- Movable Fresnel Lens
- Dimmer Connector: 5-Pin XLR
- Dimming Manually or through Dimmers
- High Energy Efficiency, Greater than 90%
- High Color Rendering Index (CRI, Ra \geq 97), TLCI \geq 98
- Light Dimmers Communication through DMX Protocol
- Separate Brightness Dimming Address and Jr Joystick Control
- Saving the Most Recent State of Device in Permanent Memory
- Brightness Range between 0 - 255 with a

- Super Smooth Dimming Manually or through Dimmers
- Tilt Moving (up and down) up to 100 Degree. Pan Moving (left and right) up to 150 Degree and Zoom. Manually or by Joystick

Technical Specifications:

- Weight: 14.25 kg
- Lens Diameter: 100 mm Φ
- Optical System: focusable Fresnel
- Input Voltage: 110-240 Vac, 50/60 Hz
- Estimated LED Lifetime: 50,000 Hours
- Dimension: 480mm x 257mm x 280mm
- Maximum Power Consumption: 100 Watt
- Maximum Working Environment Humidity: 85%
- Working Environment Temperature: -20°C to 60°C

LED Studio Spot Light

● **BN-SRCBK3RGB**



● **Overview**

Features:

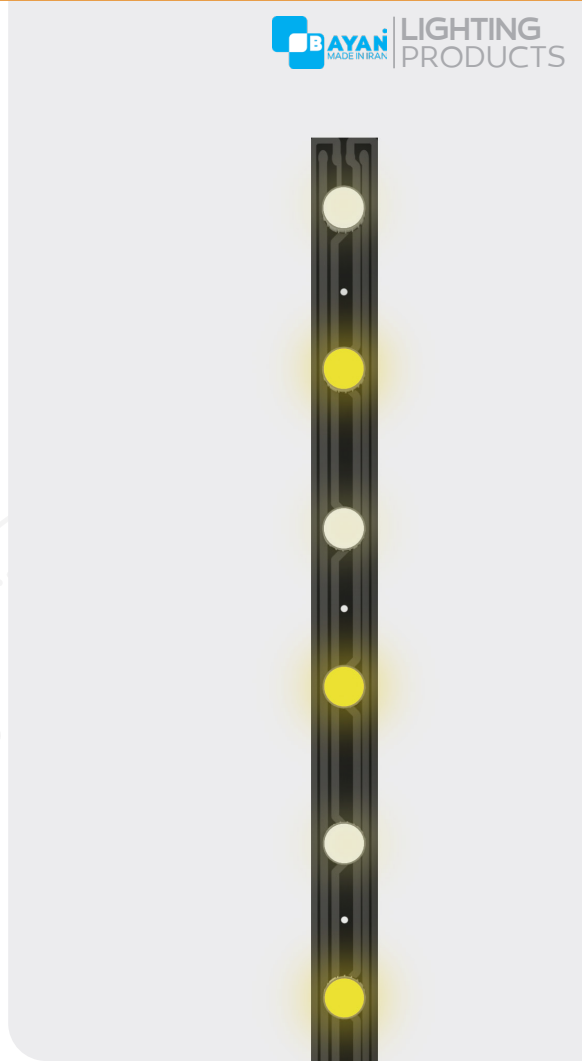
- Stable and Precise LED Driver
- Save Brightness Values in Seven Options
- A Mixer Page to Dim Brightness of other Lighting Devices
- Separate Brightness Dimming address
- Display and Save Projector and LED Working Time Separately
- Light Dimmers Communication through DMX Piprotocol

Technical Specifications:

- Weight: 5 kg
- Estimated LED Lifetime: 50.000 Hours
- Input Voltage: 110 – 240 Vac, 50/60 Hz
- Dimension: 310mm x 250mm x 230mm
- Maximum Power Consumption: 100 Watt
- Maximum Working Environment Humidity:85%
- Working Environment Temperature: -20° C to 60° C

LED Light

● BN-W12



● Overview

Features:

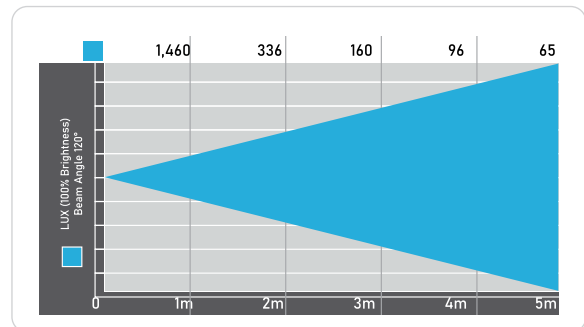
- Possibility to select angle of light incidence by mounting different kinds of lens (30°, 60°, 90°, 120°) on each LED based on customer order
- One type or two type LEDs with color temperatures ranged between 3200k and 515600k.
- High color rendering index (CRI, Ra \geq 97), TLCI \geq 98

Technical Specifications:

- Weight: 9.5 g
- Number of LEDs: 12 , 18 , 24
- Dimension: 962 mm x 37.5 mm

Portable Lighting

BSS-BASIC60



Overview

Features:

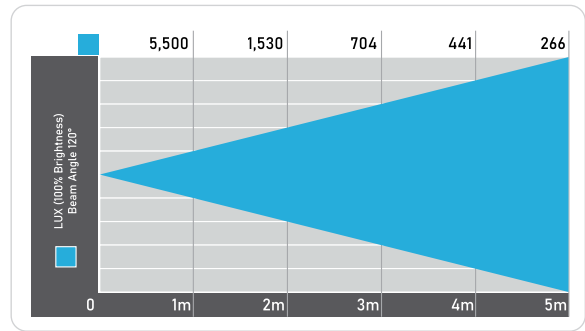
- CRI: R \geq 98
- TLCI: R \geq 99
- Four Barndoors
- Beam Angle: 120°
- Optional Battery Charger and Battery
- Special Radio Remote Control (optional)
- Light Source: SMD LED C.C.T: 3200 K to 5600 KiK adjustable

Technical Specifications:

- Power Input: 13-19 V, DC
- Power Consumption: 46 W
- Total Weight Including Barndoor: 1500 g
- Product Size: 300 mm x 150 mm x 30 mm
- Brightness Dimming: 10% - 99% (manually), 0% - 100% (hardware or Software control table)

Portable Lighting

BSS-BSOW60



Overview

Features:

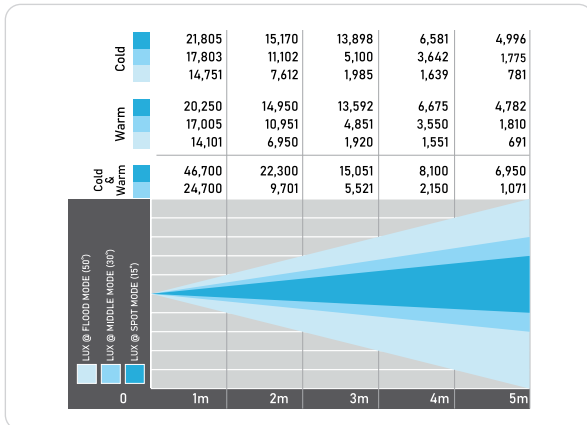
- CRI: R \geq 98
- TLCI: R \geq 99
- Four Barndoors
- Beam Angle: 120°
- Special Radio Remote Control (optional)
- Optional Battery Charger and Battery (V-Mount)
- Light Source: SMD LED C.C.T: 3200 K to 5600 K Adjustable

Technical Specifications:

- Power Input: 13-17 V. DC
- Power Consumption: 80W
- Total Weight Including Barndoor: 4500 g
- Product Size: 460 mm x 300 mm x 50 mm
- Brightness Dimming: 10% - 99% (manually or wireless)

LED Studio Spot Light

● BN-E200B1K2M



Overview

Features:

- LCD Display
- Dust Resistant
- 4 - leaf Barndoors
- EMI / EMC Resistant
- High Noise Immunity
- Movable Fresnel Lens
- Dimmer Connector: 5 - Pin XLR
- Dimming Manually or through Dimmers
- High Energy Efficiency. Greater than 90%
- High Color Rendering Index (CRI, Ra \geq 98), TLCI \geq 99
- Light Dimmers Communication through DMX Protocol
- Separate Brightness Dimming address and moving control
- Saving The Most Recent State of Device in Permanent Memory
- Brightness Range between 0 - 255 with a Super

Smooth Dimming Manually or Through Dimmers

- Tilt Moving (up and down) up to 100 Degree and Pan Moving (left and right) up to 100 Degree. Through Customer Desirable Method (HMI, joystick, app on tablet, pc etc)

Technical Specifications:

- Weight: 14.23 \pm 0.1 kg
- Lens Diameter: 175 mm Φ
- Optical system: Focusable Fresnel
- Channel, 200 Watt for both Channel
- Estimated LED Lifetime: 50,000 Hours
- Input Voltage: 110 - 240 Vac, 50/60 Hz
- Dimension: 380mm x 257mm x 280mm
- Maximum Working Environment Humidity 85%
- Working Environment Temperature: -20°C to 60°C
- Maximum Power Consumption: 100 Watt for each channel

Mobilight Kit

● BN-ZF6



● Overview

Features:

- SSL ≥ 90
- TLCI ≥ 99
- CRI, Ra ≥ 98
- Flicker less
- LCD display
- Wireless DMX
- Dust resistant
- 4-leaf barndoors
- Fanless condition
- Dimmer connector 5 pin XLR
- Bicolor manually between 3200 K to 5600 K
- Dimmer manually or through DMX 512
biretween 0 - 255 range

Technical Specifications:

- Weight: 1.5 Kg
- Estimated LED Lifetime: 50.000 Hours
- Input Voltage: 110 - 240 Vac. 50 HZ
- Dimension: 187 mm x 100 mm x 100 mm
- Projector handle Dimension: 165 mm
- Maximum Power Consumption:
30 to 60Watt
- Maximum Working Environment Humidity:85%
- Working Environment Temperature:
-20°C to 60°C

BAYANI





PROFESSIONAL AUDIO PRODUCTS

 bayannoor.ir

Incredible Sound with Bayani

Sound quality plays a crucial role in our daily lives, influencing our communication, entertainment, and overall well-being. High-quality sound enhances our experiences, whether we are enjoying music, watching movies, or engaging in conversations. It can elevate our mood, improve focus, and foster deeper connections with others. Conversely, poor sound quality can lead to frustration and distractions, diminishing our enjoyment and understanding. Thus, investing in good sound quality is essential for creating enriching environments that promote relaxation and creativity.



BAYANI

Technical Data

● Acoustic design	electronically steerable line source speaker
● Components	1 × 4" impregnated
● Operational mode	active, 1 amplifiers, Class-D
● Max. SPL (1m) ^[1]	107 dB
● Frequency range ^[2]	60 Hz - 16 kHz
● Beam dispersion angle, horizontal ^[3]	120°
● Vertical beam width, digitally controlled	0° to +90° in 0.1° increments
● Vertical inclination angle, digitally controlled	-40° to +40° in 0.1° increments
● Acoustic centre	both beams moveable between 0 - 100% (from speaker bottom to top)

LOUDSPEAKER FEATURES

● Enclosure	aluminium housing with acoustic material
● Protection grille	ball impact resistant, steel, powder coated
● Mounting points	M6 threaded inserts
● Standard colours	customise powder coated
● Front design	front grille in housing colour
● Dimensions (W × H × D)	approx. 125 × 133 × 110mm
● Weight ^[4]	About 1.5 kg

OPTIONAL FEATURES

● Special colours ^[5]	all RAL Classic colours
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CONNECTIONS (INTERNAL)

● Mains connection	1 × WAGO 2-pin, grounding screwed
● Signal link	1 × Phoenix 3-pin, bayani
● Signal inputs	1 × Phoenix 3-pin AES/EBU, 1 × Phoenix 1 × RJ-45 AREA - Optional and Customizable
● Fault message contact	1 × Phoenix 3-pin, 1 × Phoenix 3-pin link
● Switching contact	1 × RJ-45 - Optional and Customizable

ELECTRONIC FEATURES

● Amplifier power	50 W
● Amplifier type	Pure Path Digital PWM
● DSP - Channels, Audio DSP	-
● Gain	24 dB
● Input sensitivity	0 dBFS
● Frequency response	20 Hz - 20 kHz
● Signal/Noise-Ratio	> 103 dB/A
● Protective circuit	softstart, overheating, short circuit, overload
● Power supply	100 V - 240 V AC 4 A 50/60 Hz switching power supply with Power Factor Correction (PFC)
● Power consumption	Standby 5 W, max. 250 W
● Power factor (PFC)	> 97 %
● Low Power	Green Power Standby Mode
● Temperature range	*** °C
● Cooling	FanLess
● Weight of electronics	About 0.3 kg



CONTROLLERS

• Digital Signal Processors	2
• Independent Limiters	6
• Selective 3-band limiting	bass/mid/high
• Band-specific time constants	yes
• Filter technology	80-bit double precision
• AD	
• FIR	yes
• Gain	-80 dB - +12 dB
• Volume	-80 dB - +12 dB
• EQ input	10 fully parametric filters, Gain +/-12 dB, Frequency 10 Hz – 20 kHz, Q 0.1 – 100
• EQ output	10 fully parametric filters, Gain +/-12 dB, Frequency 10 Hz – 20 kHz, Q 0.1 – 100
• Limiter / Compressor	2 × Input, 1 × Output
• Noise Gate	2 × Input, 1 × Output
• X-Over	Linkwitz-Riley 4th order, 24 dB / octave, high pass 10 Hz – 20 kHz, low pass 10 Hz – 20 kHz, 2 × input, 1 × output in each case
• Delay input	0,01 – 350 ms or 3.4 mm – 120 m each
• Delay output	0,01 – 650 ms or 3.4 mm – 220 m each
• Tilt sensor	yes
• Password protection	yes
• Auto Power Save	adjustable from 1 s to 12 h, or permanently active
• User presets	100
• Simulation beam	Dedicated Audio Software
• Latency	1.80 ms

ELECTROACOUSTIC FEATURES

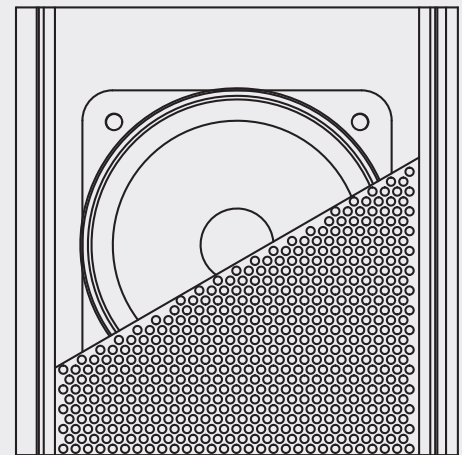
• Redundancy	-
• Remote control	Xiwi over RS-485, HMI BAYANI
• Remote monitoring	Temperature, Protect, AES/EBU Signals, PC, TABLETS, MAC
• Pilot tone monitoring	activatable, detectable in Master (on both inputs)
• Fault message contact	1 × relay 2 × alternate, 3 - pin Phoenix
• Switching contact	Load preset, Standby On/Off

AUDIO SIGNAL, INPUTS AND OUTPUTS

• Audio inputs	2 × AES/EBU or 1 × AIREA powered
• Audio input channels DSP	
• Audio link	

DISPLAYS (INTERNAL)

• Power on/off (stand-by)	green = on, red = stand-by, red flashing = fault, blue = sign
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Technical Data

• Acoustic design	electronically steerable line source speaker
• Components	2 × 4" impregnated (fully neodymium)
• Operational mode	active, amplifiers, Class-D
• Max. SPL (1m) ^[1]	110 dB
• Frequency range ^[2]	60 Hz - 16 kHz
• Beam dispersion angle, horizontal ^[3]	115°
• Vertical beam width, digitally controlled	0° to +80° in 0.1° increments
• Vertical inclination angle, digitally controlled	-40° to +40° in 0.1° increments
• Acoustic centre	both beams moveable between 0 - 100% (from speaker bottom to top)

LOUDSPEAKER FEATURES

• Enclosure	aluminium housing with acoustic material
• Protection grille	ball impact resistant, steel, powder coated
• Mounting points	M6 threaded inserts
• Standard colours	customise powder coated
• Front design	front grille in housing colour
• Dimensions (W × H × D)	approx. 125 × 133 × 210mm
• Weight ^[4]	About 2.5 kg

OPTIONAL FEATURES

• Special colours ^[5]	all RAL Classic colours
----------------------------------	-------------------------

CONNECTIONS (INTERNAL)

• Mains connection	1 × WAGO 2-pin, grounding screwed
• Signal link	1 × Phoenix 3-pin, bayani
• Signal inputs	1 × Phoenix 3-pin AES/EBU, 1 × Phoenix 1 × RJ-45 AREA - Optional and Customizable
• Fault message contact	1 × Phoenix 3-pin, 1 × Phoenix 3-pin link
• Switching contact	1 × RJ-45 - Optional and Customizable

ELECTRONIC FEATURES

• Amplifier power	100 W
• Amplifier type	Pure Path Digital PWM
• DSP - Channels, Audio DSP	-
• Gain	25 dB
• Input sensitivity	0 dBFS
• Frequency response	20 Hz - 20 kHz
• Signal/Noise-Ratio	> 105 dB/A
• Protective circuit	softstart, overheating, short circuit, overload
• Power supply	100 V - 240 V AC 4 A 50/60 Hz switching power supply with Power Factor Correction (PFC)
• Power consumption	Standby 5 W, max. 200 W
• Power factor (PFC)	> 97 %
• Low Power	Green Power Standby Mode
• Temperature range	0 - 40 °C
• Cooling	FanLess
• Weight of electronics	About 0.3 kg



CONTROLLERS

• Digital Signal Processors	2
• Independent Limiters	6
• Selective 3-band limiting	bass/mid/high
• Band-specific time constants	yes
• Filter technology	80-bit double precision
• AD	-
• FIR	yes
• Gain	-80 dB - +12 dB
• Volume	-80 dB - +12 dB
• EQ input	10 fully parametric filters, Gain +/-12 dB, Frequency 10 Hz – 20 kHz, Q 0.1 – 100
• EQ output	10 fully parametric filters, Gain +/-12 dB, Frequency 10 Hz – 20 kHz, Q 0.1 – 100
• Limiter / Compressor	2 × Input, 1 × Output
• Noise Gate	2 × Input, 1 × Output
• X-Over	Linkwitz-Riley 4th order, 24 dB / octave, high pass 10 Hz – 20 kHz, low pass 10 Hz – 20 kHz, 2 × input, 1 × output in each case
• Delay input	0,01 – 350 ms or 3.4 mm – 120 m each
• Delay output	0,01 – 650 ms or 3.4 mm – 220 m each
• Tilt sensor	yes
• Password protection	yes
• Auto Power Save	adjustable from 1 s to 12 h, or permanently active
• User presets	100
• Simulation beam	Dedicated Audio Software
• Latency	1.80 ms

ELECTROACOUSTIC FEATURES

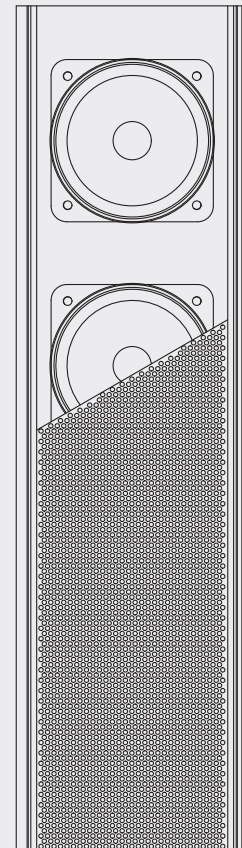
• Redundancy	-
• Remote control	Xiwi over RS-485, HMI BAYANI
• Remote monitoring	Temperature, Protect, AES/EBU Signals, PC, TABLETS, MAC
• Pilot tone monitoring	activatable, detectable in Master (on both inputs)
• Fault message contact	1 × relay 2 × alternate, 3 - pin Phoenix
• Switching contact	Load preset, Standby On/Off

AUDIO SIGNAL, INPUTS AND OUTPUTS

• Audio inputs	2 × AES/EBU or 1 × AIREA powered
• Audio input channels DSP	-
• Audio link	-

DISPLAYS (INTERNAL)

• Power on/off (stand-by)	green = on, red = stand-by, red flashing = fault, blue = sign
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Technical Data

● Acoustic design	electronically steerable line source speaker
● Components	4 × 4" impregnated (fully neodymium)
● Operational mode	active, 2 amplifiers, Class-D
● Max. SPL (1m) ^[1]	113 dB
● Frequency range ^[2]	60 Hz - 16 kHz
● Beam dispersion angle, horizontal ^[3]	115°
● Vertical beam width, digitally controlled	0° to +90° in 0.1° increments
● Vertical inclination angle, digitally controlled	-40° to +40° in 0.1° increments
● Acoustic centre	both beams moveable between 0 - 100% (from speaker bottom to top)

LOUDSPEAKER FEATURES

● Enclosure	aluminium housing Enriched with acoustic mat
● Protection grille	ball impact resistant, steel, powder coated
● Mounting points	2 × M6 threaded inserts
● Standard colours	customise powder coated
● Front design	front grille in housing colour
● Dimensions (W × H × D)	approx. 125 × 133 × 420mm
● Weight ^[4]	About 4 kg

OPTIONAL FEATURES

● Special colours ^[5]	all RAL Classic colours
----------------------------------	-------------------------

CONNECTIONS (INTERNAL)

● Mains connection	1 × WAGO 2-pin, grounding screwed
● Signal link	1 × Phoenix 3-pin, bayani
● Signal inputs	1 × Phoenix 3-pin AES/EBU, 1 × Phoenix 3-pin 1 × RJ-45 AREA - Optinal and Customizable
● Fault message contact	1 × Phoenix 3-pin, 1 × Phoenix 3-pin link
● Switching contact	1 × RJ-45 - Optinal and Customizable

ELECTRONIC FEATURES

● Amplifier power	150 W
● Amplifier type	Pure Path Digital PWM
● DSP - Channels, Audio DSP	-
● Gain	25dB
● Input sensivity	0 dBFS
● Frequency response	20 Hz - 20 kHz
● Signal/Noise-Ratio	-
● Protective circuit	softstart, overheating, short circuit, overload
● Power supply	100 V - 240 V AC 4 A 50/60 Hz switching power supply with Power Factor Correction (PFC)
● Power consumption	Standby 5 W, max. 200 W
● Power factor (PFC)	> 96 %
● Low Power	Green Power Standby Mode
● Temperature range	0 - 40 ° C
● Cooling	FanLess
● Weight of electronics	About 0.5 kg



CONTROLLERS

• Digital Signal Processors	2
• Independent Limiters	6
• Selective 3-band limiting	bass/mid/high
• Band-specific time constants	yes
• Filter technology	80-bit double precision
• AD	-
• FIR	yes
• Gain	-80 dB - +12 dB
• Volume	-80 dB - +12 dB
• EQ input	10 fully parametric filters, Gain +/-12 dB, Frequency 10 Hz – 20 kHz, Q 0.1 – 100
• EQ output	10 fully parametric filters, Gain +/-12 dB, Frequency 10 Hz – 20 kHz, Q 0.1 – 100
• Limiter / Compressor	2 × Input, 1 × Output
• Noise Gate	2 × Input, 1 × Output
• X-Over	Linkwitz-Riley 4th order, 24 dB / octave, high pass 10 Hz – 20 kHz, low pass 10 Hz – 20 kHz, 2 × input, 1 × output in each case
• Delay input	0,01 – 350 ms or 3.4 mm – 120 m each
• Delay output	0,01 – 650 ms or 3.4 mm – 220 m each
• Tilt sensor	yes
• Password protection	yes
• Auto Power Save	adjustable from 1 s to 12 h, or permanently active
• User presets	100
• Simulation beam	Dedicated Audio Software
• Latency	1.80 ms

ELECTROACOUSTIC FEATURES

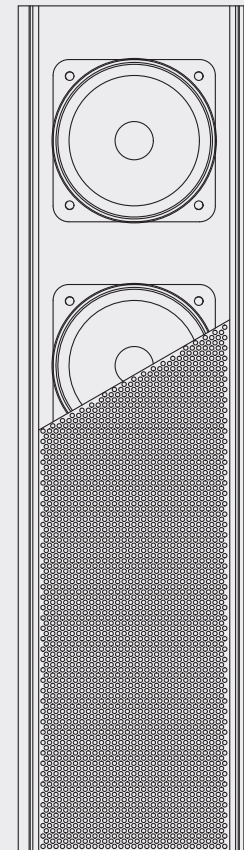
• Redundancy	-
• Remote control	Xiwi over RS-485, HMI BAYANI
• Remote monitoring	Temperature, Protect, AES/EBU Signals, PC, TABLETS, MAC
• Pilot tone monitoring	activatable, detectable in Master (on both inputs)
• Fault message contact	1 × relay 2 × alternate, 3 - pin Phoenix
• Switching contact	Load preset, Standby On/Off

AUDIO SIGNAL, INPUTS AND OUTPUTS

• Audio inputs	2 × AES/EBU or 1 × AIREA powered
• Audio input channels DSP	-
• Audio link	-

DISPLAYS (INTERNAL)

• Power on/off (stand-by)	green = on, red = stand-by, red flashing = fault, blue = sign
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Technical Data

● Acoustic design	electronically steerable line source speaker
● Components	5 × 4" impregnated (fully neodymium)
● Operational mode	active, 3 × DSP amplifiers, Class-D
● Max. SPL (1m) ^[1]	116 dB
● Frequency range ^[2]	60 Hz - 17 kHz
● Beam dispersion angle, horizontal ^[3]	105°
● Vertical beam width, digitally controlled	0° to +90° in 0.1° increments
● Vertical inclination angle, digitally controlled	-40° to +40° in 0.1° increments
● Acoustic centre	both beams moveable between 0 - 100% (from speaker bottom to top)

LOUDSPEAKER FEATURES

● Enclosure	aluminium housing with acoustic material
● Protection grille	ball impact resistant, steel, powder coated
● Mounting points	3 × M6 threaded inserts
● Standard colours	customise powder coated
● Front design	front grille in housing colour
● Dimensions (W × H × D)	approx. 125 × 133 × 560mm
● Weight ^[4]	About 5 kg

OPTIONAL FEATURES

● Special colours ^[5]	all RAL Classic colours
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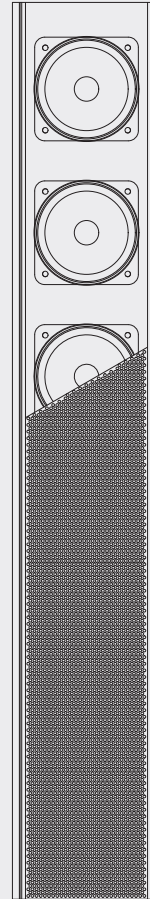
CONNECTIONS (INTERNAL)

● Mains connection	1 × WAGO 2-pin, grounding screwed
● Signal link	1 × Phoenix 3-pin, bayani
● Signal inputs	1 × Phoenix 3-pin AES/EBU, 1 × Phoenix 1 × RJ-45 AREA - Optinal and Customizable
● Fault message contact	1 × Phoenix 3-pin, 1 × Phoenix 3-pin link
● Switching contact	1 × RJ-45 - Optinal and Customizable

ELECTRONIC FEATURES

● Amplifier power	200 W
● Amplifier type	Pure Path Digital PWM
● DSP - Channels, Audio DSP	3
● Gain	25 dB
● Input sensivity	0 dBFS
● Frequency response	20 Hz - 20 kHz
● Signal/Noise-Ratio	> 105 dB/A
● Protective circuit	softstart, overheating, short circuit, overload
● Power supply	100 V - 240 V AC 4 A 50/60 Hz switching power supply with Power Factor Correction (PFC)
● Power consumption	Standby 5 W, max. 200 W
● Power factor (PFC)	> 94 %
● Low Power	Green Power Standby Mode
● Temperature range	0 - 40 °C
● Cooling	FanLess
● Weight of electronics	About 0.5 kg





CONTROLLERS

• Digital Signal Processors	2
• Independent Limiters	6
• Selective 3-band limiting	bass/mid/high
• Band-specific time constants	yes
• Filter technology	80-bit double precision
• AD	-
• FIR	yes
• Gain	-80 dB - +12 dB
• Volume	-80 dB - +12 dB
• EQ input	10 fully parametric filters, Gain +/-12 dB, Frequency 10 Hz – 20 kHz, Q 0.1 – 100
• EQ output	10 fully parametric filters, Gain +/-12 dB, Frequency 10 Hz – 20 kHz, Q 0.1 – 100
• Limiter / Compressor	2 × Input, 1 × Output
• Noise Gate	2 × Input, 1 × Output
• X-Over	Linkwitz-Riley 4th order, 24 dB / octave, high pass 10 Hz – 20 kHz, low pass 10 Hz – 20 kHz, 2 × input, 1 × output in each case
• Delay input	0,01 – 350 ms or 3.4 mm – 120 m each
• Delay output	0,01 – 650 ms or 3.4 mm – 220 m each
• Tilt sensor	yes
• Password protection	yes
• Auto Power Save	adjustable from 1 s to 12 h, or permanently active
• User presets	100
• Simulation beam	Dedicated Audio Software
• Latency	1.80 ms

ELECTROACOUSTIC FEATURES

• Redundancy	-
• Remote control	Xiwi over RS-485, HMI BAYANI
• Remote monitoring	Temperature, Protect, AES/EBU Signals, PC, TABLETS, MAC
• Pilot tone monitoring	activatable, detectable in Master (on both inputs)
• Fault message contact	1 × relay 2 × alternate, 3 - pin Phoenix
• Switching contact	Load preset, Standby On/Off

AUDIO SIGNAL, INPUTS AND OUTPUTS

• Audio inputs	2 × AES/EBU or 1 × AIREA powered
• Audio input channels DSP	2
• Audio link	-

DISPLAYS (INTERNAL)

• Power on/off (stand-by)	green = on, red = stand-by, red flashing = fault, blue = sign
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Technical Data

● Acoustic design	electronically steerable line source speaker
● Components	6 × 4" impregnated (fully neodymium)
● Operational mode	active, 5 × DSP amplifiers, Class-D
● Max. SPL (1m) ^[1]	119 dB
● Frequency range ^[2]	60 Hz - 17 kHz
● Beam dispersion angle, horizontal ^[3]	105°
● Vertical beam width, digitally controlled	0° to +90° in 0.1° increments
● Vertical inclination angle, digitally controlled	-40° to +40° in 0.1° increments
● Acoustic centre	both beams moveable between 0 - 100% (from speaker bottom to top)

LOUDSPEAKER FEATURES

● Enclosure	aluminium housing Enriched with acoustic material
● Protection grille	ball impact resistant, steel, powder coated
● Mounting points	5 × M6 threaded inserts
● Standard colours	customise powder coated
● Front design	front grille in housing colour
● Dimensions (W × H × D)	approx. 125 × 133 × 810mm
● Weight ^[4]	About 7 kg

OPTIONAL FEATURES

● Special colours ^[5]	all RAL Classic colours
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CONNECTIONS (INTERNAL)

● Mains connection	1 × WAGO 2-pin, grounding screwed
● Signal link	1 × Phoenix 3-pin, bayani
● Signal inputs	1 × Phoenix 3-pin AES/EBU, 1 × Phoenix 3-pin 1 × RJ-45 AREA - Optional and Customizable
● Fault message contact	1 × Phoenix 3-pin, 1 × Phoenix 3-pin link
● Switching contact	1 × RJ-45 - Optional and Customizable

ELECTRONIC FEATURES

● Amplifier power	300 W
● Amplifier type	Pure Path Digital PWM
● DSP - Channels, Audio DSP	5
● Gain	25dB
● Input sensitivity	0 dBFS
● Frequency response	20 Hz - 20 kHz
● Signal/Noise-Ratio	> 105 dB/A
● Protective circuit	softstart, overheating, short circuit, overload
● Power supply	100 V - 240 V AC 4 A 50/60 Hz switching power supply with Power Factor Correction (PFC)
● Power consumption	Standby 5 W, max. 200 W
● Power factor (PFC)	> 94 %
● Low Power	Green Power Standby Mode
● Temperature range	0 - 40 ° C
● Cooling	FanLess
● Weight of electronics	About 0.8 kg



CONTROLLERS

• Digital Signal Processors	2
• Independent Limiters	6
• Selective 3-band limiting	bass/mid/high
• Band-specific time constants	yes
• Filter technology	80-bit double precision
• AD	-
• FIR	yes
• Gain	-80 dB - +12 dB
• Volume	-80 dB - +12 dB
• EQ input	10 fully parametric filters, Gain +/-12 dB, Frequency 10 Hz - 20 kHz, Q 0.1 - 100
• EQ output	10 fully parametric filters, Gain +/-12 dB, Frequency 10 Hz - 20 kHz, Q 0.1 - 100
• Limiter / Compressor	2 x Input, 1 x Output
• Noise Gate	2 x Input, 1 x Output
• X-Over	Linkwitz-Riley 4th order, 24 dB / octave, high pass 10 Hz - 20 kHz, low pass 10 Hz - 20 kHz, 2 x input, 1 x output in each case
• Delay input	0,01 - 350 ms or 3.4 mm - 120 m each
• Delay output	0,01 - 650 ms or 3.4 mm - 220 m each
• Tilt sensor	yes
• Password protection	yes
• Auto Power Save	adjustable from 1 s to 12 h, or permanently active
• User presets	100
• Simulation beam	Dedicated Audio Software
• Latency	1.80 ms

ELECTROACOUSTIC FEATURES

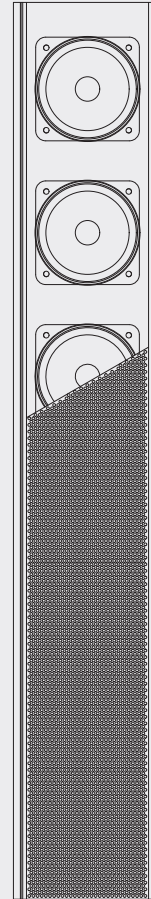
• Redundancy	-
• Remote control	Xiwi over RS-485, HMI BAYANI
• Remote monitoring	Temperature, Protect, AES/EBU Signals, PC, TABLETS, MAC
• Pilot tone monitoring	activatable, detectable in Master (on both inputs)
• Fault message contact	1 x relay 2 x alternate, 3 - pin Phoenix
• Switching contact	Load preset, Standby On/Off

AUDIO SIGNAL, INPUTS AND OUTPUTS

• Audio inputs	2 x AES/EBU or 1 x AIREA powered
• Audio input channels DSP	2
• Audio link	-

DISPLAYS (INTERNAL)

• Power on/off (stand-by)	green = on, red = stand-by, red flashing = fault, blue = sign
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Professional speakers

BS-X100

Technical Data

● Acoustic design	electronically steerable line source speaker
● Components	8 × 4" and 1 × 1" impregnated (fully neodymium)
● Operational mode	active, 5 × DSP amplifiers, Class-D
● Max. SPL (1m) ^[1]	120 dB
● Frequency range ^[2]	60 Hz - 19 kHz
● Beam dispersion angle, horizontal ^[3]	100°
● Vertical beam width, digitally controlled	0° to +90° in 0.1° increments
● Vertical inclination angle, digitally controlled	-40° to +40° in 0.1° increments
● Acoustic centre	both beams moveable between 0 - 100% (from speaker bottom to top)

LOUDSPEAKER FEATURES

● Enclosure	aluminium housing Enriched with acoustic material
● Protection grille	ball impact resistant, steel, powder coated
● Mounting points	5 × M6 threaded inserts
● Standard colours	customise powder coated
● Front design	front grille in housing colour
● Dimensions (W × H × D)	approx. 125 × 133 × 1020mm
● Weight ^[4]	6.5 kg

OPTIONAL FEATURES

● Special colours ^[5]	all RAL Classic colours
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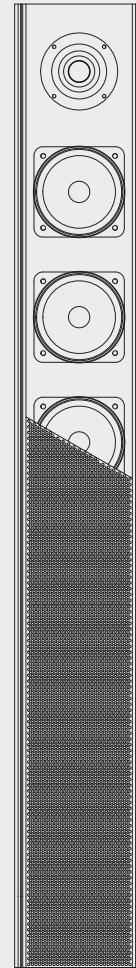
CONNECTIONS (INTERNAL)

● Mains connection	1 × WAGO 2-pin, grounding screwed
● Signal link	1 × Phoenix 3-pin, bayani
● Signal inputs	1 × Phoenix 3-pin AES/EBU, 1 × Phoenix 3-pin 1 × RJ-45 AREA - Optional and Customizable
● Fault message contact	1 × Phoenix 3-pin, 1 × Phoenix 3-pin link
● Switching contact	1 × RJ-45 - Optional and Customizable

ELECTRONIC FEATURES

● Amplifier power	450 W
● Amplifier type	Pure Path Digital PWM
● DSP - Channels, Audio DSP	10
● Gain	24dB
● Input sensitivity	0 dBFS
● Frequency response	20 Hz - 20 kHz
● Signal/Noise-Ratio	> 103 dB/A
● Protective circuit	softstart, overheating, short circuit, overload
● Power supply	100 V - 240 V AC 4 A 50/60 Hz switching power supply with Power Factor Correction (PFC)
● Power consumption	Standby 5 W, max. 180 W
● Power factor (PFC)	> 92 %
● Low Power	Green Power Standby Mode
● Temperature range	50° C
● Cooling	FanLess
● Weight of electronics	About 0.8 kg





CONTROLLERS

• Digital Signal Processors	2
• Independent Limiters	6
• Selective 3-band limiting	bass/mid/high
• Band-specific time constants	yes
• Filter technology	80-bit double precision
• AD	-
• FIR	yes
• Gain	-80 dB - +12 dB
• Volume	-80 dB - +12 dB
• EQ input	10 fully parametric filters, Gain +/-12 dB, Frequency 10 Hz – 20 kHz, Q 0.1 – 100
• EQ output	10 fully parametric filters, Gain +/-12 dB, Frequency 10 Hz – 20 kHz, Q 0.1 – 100
• Limiter / Compressor	2 × Input, 1 × Output
• Noise Gate	2 × Input, 1 × Output
• X-Over	Linkwitz-Riley 4th order, 24 dB / octave, high pass 10 Hz – 20 kHz, low pass 10 Hz – 20 kHz, 2 × input, 1 × output in each case
• Delay input	0,01 – 350 ms or 3.4 mm – 120 m each
• Delay output	0,01 – 650 ms or 3.4 mm – 220 m each
• Tilt sensor	yes
• Password protection	yes
• Auto Power Save	adjustable from 1 s to 12 h, or permanently active
• User presets	100
• Simulation beam	Dedicated Audio Software
• Latency	1.80 ms

ELECTROACOUSTIC FEATURES

• Redundancy	-
• Remote control	Xiwi over RS-485, HMI BAYANI
• Remote monitoring	Temperature, Protect, AES/EBU Signals, PC, TABLETS, MAC
• Pilot tone monitoring	activatable, detectable in Master (on both inputs)
• Fault message contact	1 × relay 2 × alternate, 3 - pin Phoenix
• Switching contact	Load preset, Standby On/Off

AUDIO SIGNAL, INPUTS AND OUTPUTS

• Audio inputs	2 × AES/EBU or 1 × AIREA powered
• Audio input channels DSP	2
• Audio link	-

DISPLAYS (INTERNAL)

• Power on/off (stand-by)	green = on, red = stand-by, red flashing = fault, blue = sign
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Professional speakers

BS-X100DPS

Technical Data

● Acoustic design	electronically steerable line source speaker
● Components	4 × 4" impregnated (fully neodymium)
● Operational mode	active, 5 × DSP amplifiers, Class-D
● Max. SPL (1m) ^[1]	120 dB
● Frequency range ^[2]	60 Hz - 19 kHz
● Beam dispersion angle, horizontal ^[3]	100°
● Vertical beam width, digitally controlled	0° to +90° in 0.1° increments
● Vertical inclination angle, digitally controlled	-40° to +40° in 0.1° increments
● Acoustic centre	both beams moveable between 0 - 100% (from speaker bottom to top)

LOUDSPEAKER FEATURES

● Enclosure	aluminium housing Enriched with acoustic material
● Protection grille	ball impact resistant, steel, powder coated
● Mounting points	5 × M6 threaded inserts
● Standard colours	customise powder coated
● Front design	front grille in housing colour
● Dimensions (W × H × D)	approx. 133.x1000 × 111.2mm
● Weight ^[4]	6.5 kg

OPTIONAL FEATURES

● Special colours ^[5]	all RAL Classic colours
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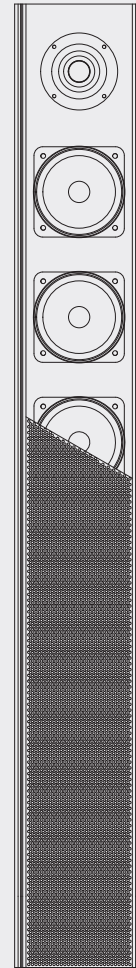
CONNECTIONS (INTERNAL)

● Mains connection	1 × WAGO 2-pin, grounding screwed
● Signal link	1 × Phoenix 3-pin, bayani
● Signal inputs	1 × Phoenix 3-pin AES/EBU, 1 × Phoenix 3-pin Fohhn-Net, or 1 × RJ-45 AIREA
● Fault message contact	1 × Phoenix 3-pin, 1 × Phoenix 3-pin link
● Switching contact	1 × RJ-45

ELECTRONIC FEATURES

● Amplifier power	500 W
● Amplifier type	Pure Path Digital PWM
● DSP - Channels, Audio DSP	10
● Gain	24dB
● Input sensitivity	0 dBFS
● Frequency response	20 Hz - 20 kHz
● Signal/Noise-Ratio	> 103 dB/A
● Protective circuit	softstart, overheating, short circuit, overload
● Power supply	100 V - 240 V AC 4 A 50/60 Hz switching power supply with Power Factor Correction (PFC)
● Power consumption	Standby 5 W, max. 180 W
● Power factor (PFC)	> 92 %
● Low Power	Green Power Standby Mode
● Temperature range	50° C
● Cooling	FanLess
● Weight of electronics	About 0.6 kg





CONTROLLERS

• Digital Signal Processors	2
• Independent Limiters	6
• Selective 3-band limiting	bass/mid/high
• Band-specific time constants	yes
• Filter technology	80-bit double precision
• AD	-
• FIR	yes
• Gain	-80 dB - +12 dB
• Volume	-80 dB - +12 dB
• EQ input	10 fully parametric filters, Gain +/-12 dB, Frequency 10 Hz – 20 kHz, Q 0.1 – 100
• EQ output	10 fully parametric filters, Gain +/-12 dB, Frequency 10 Hz – 20 kHz, Q 0.1 – 100
• Limiter / Compressor	2 × Input, 1 × Output
• Noise Gate	2 × Input, 1 × Output
• X-Over	Linkwitz-Riley 4th order, 24 dB / octave, high pass 10 Hz – 20 kHz, low pass 10 Hz – 20 kHz, 2 × input, 1 × output in each case
• Delay input	0,01 – 350 ms or 3.4 mm – 120 m each
• Delay output	0,01 – 650 ms or 3.4 mm – 220 m each
• Tilt sensor	yes
• Password protection	yes
• Auto Power Save	adjustable from 1 s to 12 h, or permanently active
• User presets	100
• Simulation beam	Dedicated Audio Software
• Latency	1.80 ms

ELECTROACOUSTIC FEATURES

• Redundancy	-
• Remote control	Xiwi over RS-485, HMI BAYANI
• Remote monitoring	Temperature, Protect, AES/EBU Signals, PC, TABLETS, MAC
• Pilot tone monitoring	activatable, detectable in Master (on both inputs)
• Fault message contact	1 × relay 2 × alternate, 3 - pin Phoenix
• Switching contact	Load preset, Standby On/Off

AUDIO SIGNAL, INPUTS AND OUTPUTS

• Audio inputs	2 × AES/EBU or 1 × AIREA powered
• Audio input channels DSP	2
• Audio link	-

DISPLAYS (INTERNAL)

• Power on/off (stand-by)	green = on, red = stand-by, red flashing = fault, blue = sign
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Professional speakers

BS-X120

Technical Data

● Acoustic design	electronically steerable line source speaker
● Components	10 × 4" impregnated (fully neodymium)
● Operational mode	active, 7 × DSP amplifiers, Class-D
● Max. SPL (1m) ^[1]	123 dB
● Frequency range ^[2]	60 Hz - 17 kHz
● Beam dispersion angle, horizontal ^[3]	105°
● Vertical beam width, digitally controlled	0° to +90° in 0.1° increments
● Vertical inclination angle, digitally controlled	-40° to +40° in 0.1° increments
● Acoustic centre	both beams moveable between 0 - 100% (from speaker bottom to top)

LOUDSPEAKER FEATURES

● Enclosure	aluminium housing Enriched with acoustic material
● Protection grille	ball impact resistant, steel, powder coated
● Mounting points	7 × M6 threaded inserts
● Standard colours	customise powder coated
● Front design	front grille in housing colour
● Dimensions (W × H × D)	approx. 125 × 133 × 1220mm
● Weight ^[4]	About 11 kg

OPTIONAL FEATURES

● Special colours ^[5]	all RAL Classic colours
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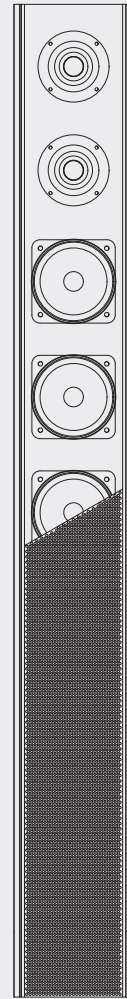
CONNECTIONS (INTERNAL)

● Mains connection	1 × WAGO 2-pin, grounding screwed
● Signal link	1 × Phoenix 3-pin, bayani
● Signal inputs	1 × Phoenix 3-pin AES/EBU, 1 × Phoenix 3-pin 1 × RJ-45 AREA - Optional and Customizable
● Fault message contact	1 × Phoenix 3-pin, 1 × Phoenix 3-pin link
● Switching contact	1 × RJ-45 - Optional and Customizable

ELECTRONIC FEATURES

● Amplifier power	600 W
● Amplifier type	Pure Path Digital PWM
● DSP - Channels, Audio DSP	7
● Gain	25dB
● Input sensitivity	0 dBFS
● Frequency response	20 Hz - 20 kHz
● Signal/Noise-Ratio	> 105 dB/A
● Protective circuit	softstart, overheating, short circuit, overload
● Power supply	100 V - 240 V AC 4 A 50/60 Hz switching power supply with Power Factor Correction (PFC)
● Power consumption	Standby 5 W, max. 230 W
● Power factor (PFC)	> 93 %
● Low Power	Green Power Standby Mode
● Temperature range	0 - 40° C
● Cooling	FanLess
● Weight of electronics	About 0.9 kg





CONTROLLERS

• Digital Signal Processors	2
• Independent Limiters	6
• Selective 3-band limiting	bass/mid/high
• Band-specific time constants	yes
• Filter technology	80-bit double precision
• AD	-
• FIR	yes
• Gain	-80 dB - +12 dB
• Volume	-80 dB - +12 dB
• EQ input	10 fully parametric filters, Gain +/-12 dB, Frequency 10 Hz – 20 kHz, Q 0.1 – 100
• EQ output	10 fully parametric filters, Gain +/-12 dB, Frequency 10 Hz – 20 kHz, Q 0.1 – 100
• Limiter / Compressor	2 × Input, 1 × Output
• Noise Gate	2 × Input, 1 × Output
• X-Over	Linkwitz-Riley 4th order, 24 dB / octave, high pass 10 Hz – 20 kHz, low pass 10 Hz – 20 kHz, 2 × input, 1 × output in each case
• Delay input	0,01 – 350 ms or 3.4 mm – 120 m each
• Delay output	0,01 – 650 ms or 3.4 mm – 220 m each
• Tilt sensor	yes
• Password protection	yes
• Auto Power Save	adjustable from 1 s to 12 h, or permanently active
• User presets	100
• Simulation beam	Dedicated Audio Software
• Latency	1.80 ms

ELECTROACOUSTIC FEATURES

• Redundancy	-
• Remote control	Xiwi over RS-485, HMI BAYANI
• Remote monitoring	Temperature, Protect, AES/EBU Signals, PC, TABLETS, MAC
• Pilot tone monitoring	activatable, detectable in Master (on both inputs)
• Fault message contact	1 × relay 2 × alternate, 3 - pin Phoenix
• Switching contact	Load preset, Standby On/Off

AUDIO SIGNAL, INPUTS AND OUTPUT

• Audio inputs	2 × AES/EBU or 1 × AIREA powered
• Audio input channels DSP	2
• Audio link	-

DISPLAYS (INTERNAL)

• Power on/off (stand-by)	green = on, red = stand-by, red flashing = fault, blue = sign
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Professional speakers

BS-X140

Technical Data

● Acoustic design	electronically steerable line source speaker
● Components	10 × 4" and 2 × 1" impregnated (fully neodymium)
● Operational mode	active, 10 × DSP amplifiers, Class-D
● Max. SPL (1m) ^[1]	125 dB
● Frequency range ^[2]	60 Hz - 18 kHz
● Beam dispersion angle, horizontal ^[3]	100°
● Vertical beam width, digitally controlled	0° to +90° in 0.1° increments
● Vertical inclination angle, digitally controlled	-40° to +40° in 0.1° increments
● Acoustic centre	both beams moveable between 0 - 100% (from speaker bottom to top)

LOUDSPEAKER FEATURES

● Enclosure	aluminium housing Enriched with acoustic material
● Protection grille	ball impact resistant, steel, powder coated
● Mounting points	10 × M6 threaded inserts
● Standard colours	customise powder coated
● Front design	front grille in housing colour
● Dimensions (W × H × D)	approx. 125 × 133 × 1405mm
● Weight ^[4]	10 kg

OPTIONAL FEATURES

● Special colours ^[5]	all RAL Classic colours
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CONNECTIONS (INTERNAL)

● Mains connection	1 × WAGO 2-pin, grounding screwed
● Signal link	1 × Phoenix 3-pin, bayani
● Signal inputs	1 × Phoenix 3-pin AES/EBU, 1 × Phoenix 3-pin 1 × RJ-45 AREA - Optinal and Customizable
● Fault message contact	1 × Phoenix 3-pin, 1 × Phoenix 3-pin link
● Switching contact	1 × RJ-45 - Optinal and Customizable

ELECTRONIC FEATURES

● Amplifier power	800 W
● Amplifier type	Pure Path Digital PWM
● DSP - Channels, Audio DSP	10
● Gain	24dB
● Input sensivity	0 dBFS
● Frequency response	20 Hz - 20 kHz
● Signal/Noise-Ratio	> 103 dB/A
● Protective circuit	softstart, overheating, short circuit, overload
● Power supply	100 V - 240 V AC 4 A 50/60 Hz switching power supply with Power Factor Correction (PFC)
● Power consumption	Standby 5 W, max. 250 W
● Power factor (PFC)	> 92 %
● Low Power	Green Power Standby Mode
● Temperature range	50° C
● Cooling	FanLess
● Weight of electronics	About 1 kg



CONTROLLERS

• Digital Signal Processors	2
• Independent Limiters	6
• Selective 3-band limiting	bass/mid/high
• Band-specific time constants	yes
• Filter technology	80-bit double precision
• AD	-
• FIR	yes
• Gain	-80 dB - +12 dB
• Volume	-80 dB - +12 dB
• EQ input	10 fully parametric filters, Gain +/-12 dB, Frequency 10 Hz – 20 kHz, Q 0.1 – 100
• EQ output	10 fully parametric filters, Gain +/-12 dB, Frequency 10 Hz – 20 kHz, Q 0.1 – 100
• Limiter / Compressor	2 × Input, 1 × Output
• Noise Gate	2 × Input, 1 × Output
• X-Over	Linkwitz-Riley 4th order, 24 dB / octave, high pass 10 Hz – 20 kHz, low pass 10 Hz – 20 kHz, 2 × input, 1 × output in each case
• Delay input	0,01 – 350 ms or 3.4 mm – 120 m each
• Delay output	0,01 – 650 ms or 3.4 mm – 220 m each
• Tilt sensor	yes
• Password protection	yes
• Auto Power Save	adjustable from 1 s to 12 h, or permanently active
• User presets	100
• Simulation beam	Dedicated Audio Software
• Latency	1.80 ms

ELECTROACOUSTIC FEATURES

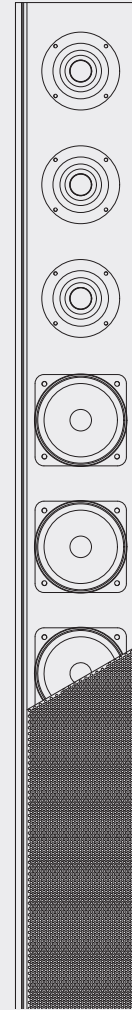
• Redundancy	-
• Remote control	Xiwi over RS-485, HMI BAYANI
• Remote monitoring	Temperature, Protect, AES/EBU Signals, PC, TABLETS, MAC
• Pilot tone monitoring	activatable, detectable in Master (on both inputs)
• Fault message contact	1 × relay 2 × alternate, 3 - pin Phoenix
• Switching contact	Load preset, Standby On/Off

AUDIO SIGNAL, INPUTS AND OUTPUTS

• Audio inputs	2 × AES/EBU or 1 × AIREA powered
• Audio input channels DSP	2
• Audio link	-

DISPLAYS (INTERNAL)

• Power on/off (stand-by)	green = on, red = stand-by, red flashing = fault, blue = sign
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Professional speakers

BS-X140DP

Technical Data

● Acoustic design	electronically steerable line source speaker
● Components	8 × 4" impregnated (fully neodymium)
● Operational mode	active, 10 × DSP Mplifiers, Class-D
● Max. SPL (1m) ^[1]	125 dB
● Frequency range ^[2]	60 Hz - 18 kHz
● Beam dispersion angle, horizontal ^[3]	100°
● Vertical beam width, digitally controlled	0° to +90° in 0.1° increments
● Vertical inclination angle, digitally controlled	-40° to +40° in 0.1° increments
● Acoustic centre	both beams moveable between 0 - 100% (from speaker bottom to top)

LOUDSPEAKER FEATURES

● Enclosure	aluminium housing Enriched with acoustic me
● Protection grille	ball impact resistant, steel, powder coated
● Mounting points	10 × M6 threaded inserts
● Standard colours	customise powder coated
● Front design	front grille in housing colour
● Dimensions (W × H × D)	approx. 133.x1400 × 111.2mm
● Weight ^[4]	10 kg

OPTIONAL FEATURES

● Special colours ^[5]	all RAL Classic colours
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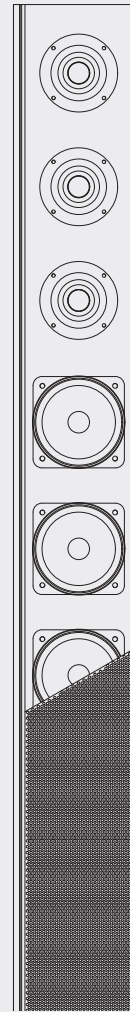
CONNECTIONS (INTERNAL)

● Mains connection	1 × WAGO 2-pin, grounding screwed
● Signal link	1 × Phoenix 3-pin, bayani
● Signal inputs	1 × Phoenix 3-pin AES/EBU, 1 × Phoenix 3-pin Fohhn-Net, or 1 × RJ-45 AIREA
● Fault message contact	1 × Phoenix 3-pin, 1 × Phoenix 3-pin link
● Switching contact	1 × RJ-45

ELECTRONIC FEATURES

● Amplifier power	800 W
● Amplifier type	Pure Path Digital PWM
● DSP - Channels, Audio DSP	10
● Gain	24dB
● Input sensivity	0 dBFS
● Frequency response	20 Hz - 20 kHz
● Signal/Noise-Ratio	> 103 dB/A
● Protective circuit	softstart, overheating, short circuit, overload
● Power supply	100 V - 240 V AC 4 A 50/60 Hz switching pow supply with Power Factor Correction (PFC)
● Power consumption	Standby 5 W, max. 250 W
● Power factor (PFC)	> 92 %
● Low Power	Green Power Standby Mode
● Temperature range	50° C
● Cooling	FanLess
● Weight of electronics	About 1 kg





CONTROLLERS

• Digital Signal Processors	2
• Independent Limiters	6
• Selective 3-band limiting	bass/mid/high
• Band-specific time constants	yes
• Filter technology	80-bit double precision
• AD	-
• FIR	yes
• Gain	-80 dB - +12 dB
• Volume	-80 dB - +12 dB
• EQ input	10 fully parametric filters, Gain +/-12 dB, Frequency 10 Hz – 20 kHz, Q 0.1 – 100
• EQ output	10 fully parametric filters, Gain +/-12 dB, Frequency 10 Hz – 20 kHz, Q 0.1 – 100
• Limiter / Compressor	2 × Input, 1 × Output
• Noise Gate	2 × Input, 1 × Output
• X-Over	Linkwitz-Riley 4th order, 24 dB / octave, high pass 10 Hz – 20 kHz, low pass 10 Hz – 20 kHz, 2 × input, 1 × output in each case
• Delay input	0,01 – 350 ms or 3.4 mm – 120 m each
• Delay output	0,01 – 650 ms or 3.4 mm – 220 m each
• Tilt sensor	yes
• Password protection	yes
• Auto Power Save	adjustable from 1 s to 12 h, or permanently active
• User presets	100
• Simulation beam	Dedicated Audio Software
• Latency	1.80 ms

ELECTROACOUSTIC FEATURES

• Redundancy	-
• Remote control	Xiwi over RS-485, HMI BAYANI
• Remote monitoring	Temperature, Protect, AES/EBU Signals, PC, TABLETS, MAC
• Pilot tone monitoring	activatable, detectable in Master (on both inputs)
• Fault message contact	1 × relay 2 × alternate, 3 - pin Phoenix
• Switching contact	Load preset, Standby On/Off

AUDIO SIGNAL, INPUTS AND OUTPUTS

• Audio inputs	2 × AES/EBU or 1 × AIREA powered
• Audio input channels DSP	2
• Audio link	-

DISPLAYS (INTERNAL)

• Power on/off (stand-by)	green = on, red = stand-by, red flashing = fault, blue = sign
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Professional speakers

BS-X180

Technical Data

● Acoustic design	electronically steerable line source speaker
● Components	12 × 4" and 2 × 1" impregnated (fully neodymium)
● Operational mode	active, 12 × DSP amplifiers, Class-D
● Max. SPL (1m) ^[1]	127 dB
● Frequency range ^[2]	60 Hz - 16 kHz
● Beam dispersion angle, horizontal ^[3]	100°
● Vertical beam width, digitally controlled	0° to +90° in 0.1° increments
● Vertical inclination angle, digitally controlled	-40° to +40° in 0.1° increments
● Acoustic centre	both beams moveable between 0 - 100% (from speaker bottom to top)

LOUDSPEAKER FEATURES

● Enclosure	aluminium housing Enriched with acoustic material
● Protection grille	ball impact resistant, steel, powder coated
● Mounting points	14 × M6 threaded inserts
● Standard colours	customise powder coated
● Front design	front grille in housing colour
● Dimensions (W × H × D)	approx. 125 × 133 × 1806mm
● Weight ^[4]	About 12 kg

OPTIONAL FEATURES

● Special colours ^[5]	all RAL Classic colours
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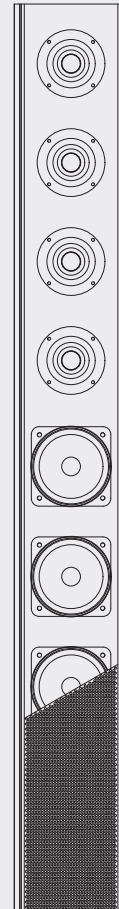
CONNECTIONS (INTERNAL)

● Mains connection	1 × WAGO 2-pin, grounding screwed
● Signal link	1 × Phoenix 3-pin, bayani
● Signal inputs	1 × Phoenix 3-pin AES/EBU, 1 × Phoenix 3-pin 1 × RJ-45 AREA - Optional and Customizable
● Fault message contact	1 × Phoenix 3-pin, 1 × Phoenix 3-pin link
● Switching contact	1 × RJ-45 - Optional and Customizable

ELECTRONIC FEATURES

● Amplifier power	900 W
● Amplifier type	Pure Path Digital PWM
● DSP - Channels, Audio DSP	14
● Gain	24dB
● Input sensitivity	0 dBFS
● Frequency response	20 Hz - 20 kHz
● Signal/Noise-Ratio	> 103 dB/A
● Protective circuit	softstart, overheating, short circuit, overload
● Power supply	100 V - 240 V AC 4 A 50/60 Hz switching power supply with Power Factor Correction (PFC)
● Power consumption	Standby 5 W, max. 210 W
● Power factor (PFC)	> 90 %
● Low Power	Green Power Standby Mode
● Temperature range	*** ° C
● Cooling	FanLess
● Weight of electronics	About 1.1 kg





CONTROLLERS

• Digital Signal Processors	2
• Independent Limiters	6
• Selective 3-band limiting	bass/mid/high
• Band-specific time constants	yes
• Filter technology	80-bit double precision
• AD	-
• FIR	yes
• Gain	-80 dB - +12 dB
• Volume	-80 dB - +12 dB
• EQ input	10 fully parametric filters, Gain +/-12 dB, Frequency 10 Hz – 20 kHz, Q 0.1 – 100
• EQ output	10 fully parametric filters, Gain +/-12 dB, Frequency 10 Hz – 20 kHz, Q 0.1 – 100
• Limiter / Compressor	2 × Input, 1 × Output
• Noise Gate	2 × Input, 1 × Output
• X-Over	Linkwitz-Riley 4th order, 24 dB / octave, high pass 10 Hz – 20 kHz, low pass 10 Hz – 20 kHz, 2 × input, 1 × output in each case
• Delay input	0,01 – 350 ms or 3.4 mm – 120 m each
• Delay output	0,01 – 650 ms or 3.4 mm – 220 m each
• Tilt sensor	yes
• Password protection	yes
• Auto Power Save	adjustable from 1 s to 12 h, or permanently active
• User presets	100
• Simulation beam	Dedicated Audio Software
• Latency	1.80 ms

ELECTROACOUSTIC FEATURES

• Redundancy	-
• Remote control	Xiwi over RS-485, HMI BAYANI
• Remote monitoring	Temperature, Protect, AES/EBU Signals, PC, TABLETS, MAC
• Pilot tone monitoring	activatable, detectable in Master (on both inputs)
• Fault message contact	1 × relay 2 × alternate, 3 - pin Phoenix
• Switching contact	Load preset, Standby On/Off

AUDIO SIGNAL, INPUTS AND OUTPUTS

• Audio inputs	2 × AES/EBU or 1 × AIREA powered
• Audio input channels DSP	2
• Audio link	-

DISPLAYS (INTERNAL)

• Power on/off (stand-by)	green = on, red = stand-by, red flashing = fault, blue = sign
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Professional speakers

BS-X200

Technical Data

● Acoustic design	electronically steerable line source speaker
● Components	14 × 4" and 2 × 1" impregnated (fully neodymium)
● Operational mode	active, 12 × DSP amplifiers, Class-D
● Max. SPL (1m) ^[1]	129 dB
● Frequency range ^[2]	60 Hz - 16 kHz
● Beam dispersion angle, horizontal ^[3]	110°
● Vertical beam width, digitally controlled	0° to +90° in 0.1° increments
● Vertical inclination angle, digitally controlled	-40° to +40° in 0.1° increments
● Acoustic centre	both beams moveable between 0 - 100% (from speaker bottom to top)

LOUDSPEAKER FEATURES

● Enclosure	aluminium housing Enriched with acoustic material
● Protection grille	ball impact resistant, steel, powder coated
● Mounting points	12 × M6 threaded inserts
● Standard colours	customise powder coated
● Front design	front grille in housing colour
● Dimensions (W × H × D)	approx. 125 × 133 × 2005mm
● Weight ^[4]	About 15 kg

OPTIONAL FEATURES

● Special colours ^[5]	all RAL Classic colours
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CONNECTIONS (INTERNAL)

● Mains connection	1 × WAGO 2-pin, grounding screwed
● Signal link	1 × Phoenix 3-pin, bayani
● Signal inputs	1 × Phoenix 3-pin AES/EBU, 1 × Phoenix 3-pin 1 × RJ-45 AREA - Optinal and Customizable
● Fault message contact	1 × Phoenix 3-pin, 1 × Phoenix 3-pin link
● Switching contact	1 × RJ-45 - Optinal and Customizable

ELECTRONIC FEATURES

● Amplifier power	1100 W
● Amplifier type	Pure Path Digital PWM
● DSP - Channels, Audio DSP	12
● Gain	25dB
● Input sensivity	0 dBFS
● Frequency response	20 Hz - 20 kHz
● Signal/Noise-Ratio	> 105 dB/A
● Protective circuit	softstart, overheating, short circuit, overload
● Power supply	100 V - 240 V AC 4 A 50/60 Hz switching power supply with Power Factor Correction (PFC)
● Power consumption	Standby 5 W, max. 250 W
● Power factor (PFC)	> 90 %
● Low Power	Green Power Standby Mode
● Temperature range	0 - 40° C
● Cooling	FanLess
● Weight of electronics	About 1.1 kg



CONTROLLERS

• Digital Signal Processors	2
• Independent Limiters	6
• Selective 3-band limiting	bass/mid/high
• Band-specific time constants	yes
• Filter technology	80-bit double precision
• AD	-
• FIR	yes
• Gain	-80 dB - +12 dB
• Volume	-80 dB - +12 dB
• EQ input	10 fully parametric filters, Gain +/-12 dB, Frequency 10 Hz – 20 kHz, Q 0.1 – 100
• EQ output	10 fully parametric filters, Gain +/-12 dB, Frequency 10 Hz – 20 kHz, Q 0.1 – 100
• Limiter / Compressor	2 × Input, 1 × Output
• Noise Gate	2 × Input, 1 × Output
• X-Over	Linkwitz-Riley 4th order, 24 dB / octave, high pass 10 Hz – 20 kHz, low pass 10 Hz – 20 kHz, 2 × input, 1 × output in each case
• Delay input	0,01 – 350 ms or 3.4 mm – 120 m each
• Delay output	0,01 – 650 ms or 3.4 mm – 220 m each
• Tilt sensor	yes
• Password protection	yes
• Auto Power Save	adjustable from 1 s to 12 h, or permanently active
• User presets	100
• Simulation beam	Dedicated Audio Software
• Latency	1.80 ms

ELECTROACOUSTIC FEATURES

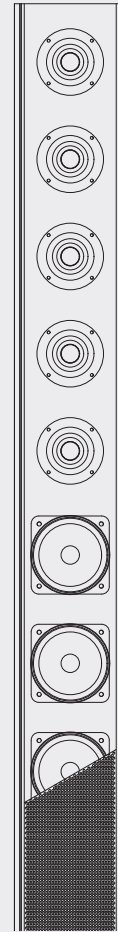
• Redundancy	-
• Remote control	Xiwi over RS-485, HMI BAYANI
• Remote monitoring	Temperature, Protect, AES/EBU Signals, PC, TABLETS, MAC
• Pilot tone monitoring	activatable, detectable in Master (on both inputs)
• Fault message contact	1 × relay 2 × alternate, 3 - pin Phoenix
• Switching contact	Load preset, Standby On/Off

AUDIO SIGNAL, INPUTS AND OUTPUTS

• Audio inputs	2 × AES/EBU or 1 × AIREA powered
• Audio input channels DSP	2
• Audio link	-

DISPLAYS (INTERNAL)

• Power on/off (stand-by)	green = on, red = stand-by, red flashing = fault, blue = sign
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Professional speakers

BS-X300

Technical Data

● Acoustic design	electronically steerable line source speaker
● Components	18 × 4" and 2 × 2" impregnated (fully neodymium)
● Operational mode	active, 12 × DSP amplifiers, Class-D
● Max. SPL (1m) ^[1]	132 dB
● Frequency range ^[2]	60 Hz - 16 kHz
● Beam dispersion angle, horizontal ^[3]	100°
● Vertical beam width, digitally controlled	0° to +90° in 0.1° increments
● Vertical inclination angle, digitally controlled	-40° to +40° in 0.1° increments
● Acoustic centre	both beams moveable between 0 - 100% (from speaker bottom to top)

LOUDSPEAKER FEATURES

● Enclosure	aluminium housing Enriched with acoustic material
● Protection grille	ball impact resistant, steel, powder coated
● Mounting points	12 × M6 threaded inserts
● Standard colours	customise powder coated
● Front design	front grille in housing colour
● Dimensions (W × H × D)	approx. 125 × 133 × 2900 mm
● Weight ^[4]	About 18 kg

OPTIONAL FEATURES

● Special colours ^[5]	all RAL Classic colours
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CONNECTIONS (INTERNAL)

● Mains connection	1 × WAGO 2-pin, grounding screwed
● Signal link	1 × Phoenix 3-pin, bayani
● Signal inputs	1 × Phoenix 3-pin AES/EBU, 1 × Phoenix 3-pin or 1 × RJ-45 AREA - Optinal and Customizable
● Fault message contact	1 × Phoenix 3-pin, 1 × Phoenix 3-pin link
● Switching contact	1 × RJ-45 - Optinal and Customizable

ELECTRONIC FEATURES

● Amplifier power	1400 W
● Amplifier type	Pure Path Digital PWM
● DSP - Channels, Audio DSP	12
● Gain	25dB
● Input sensivity	0 dBFS
● Frequency response	20 Hz - 20 kHz
● Signal/Noise-Ratio	> 105 dB/A
● Protective circuit	softstart, overheating, short circuit, overload
● Power supply	100 V - 240 V AC 4 A 50/60 Hz switching power supply with Power Factor Correction (PFC)
● Power consumption	Standby 5 W, max. 300 WDC
● Power factor (PFC)	> 90 %
● Low Power	Green Power Standby Mode
● Temperature range	0 - 40° C
● Cooling	FanLess
● Weight of electronics	About 1200 g



CONTROLLERS

• Digital Signal Processors	2
• Independent Limiters	6
• Selective 3-band limiting	bass/mid/high
• Band-specific time constants	yes
• Filter technology	80-bit double precision
• AD	-
• FIR	yes
• Gain	-80 dB - +12 dB
• Volume	-80 dB - +12 dB
• EQ input	10 fully parametric filters, Gain +/-12 dB, Frequency 10 Hz – 20 kHz, Q 0.1 – 100
• EQ output	10 fully parametric filters, Gain +/-12 dB, Frequency 10 Hz – 20 kHz, Q 0.1 – 100
• Limiter / Compressor	2 × Input, 1 × Output
• Noise Gate	2 × Input, 1 × Output
• X-Over	Linkwitz-Riley 4th order, 24 dB / octave, high pass 10 Hz – 20 kHz, low pass 10 Hz – 20 kHz, 2 × input, 1 × output in each case
• Delay input	0,01 – 350 ms or 3.4 mm – 120 m each
• Delay output	0,01 – 650 ms or 3.4 mm – 220 m each
• Tilt sensor	yes
• Password protection	yes
• Auto Power Save	adjustable from 1 s to 12 h, or permanently active
• User presets	100
• Simulation beam	Dedicated Audio Software
• Latency	1.80 ms

ELECTROACOUSTIC FEATURES

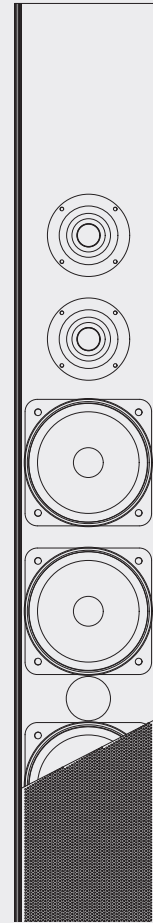
• Redundancy	-
• Remote control	Xiwi over RS-485, HMI BAYANI
• Remote monitoring	Temperature, Protect, AES/EBU Signals, PC, TABLETS, MAC
• Pilot tone monitoring	activatable, detectable in Master (on both inputs)
• Fault message contact	1 × relay 2 × alternate, 3 - pin Phoenix
• Switching contact	Load preset, Standby On/Off

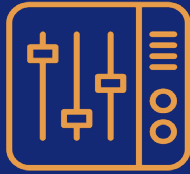
AUDIO SIGNAL, INPUTS AND OUTPUTS

• Audio inputs	2 × AES/EBU or 1 × AIREA powered
• Audio input channels DSP	2
• Audio link	-

DISPLAYS (INTERNAL)

• Power on/off (stand-by)	green = on, red = stand-by, red flashing = fault, blue = sign
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BROADCASTING ACCESSORIES

bayannoor.ir

Studio accessories play a vital role in enhancing the quality of video production. These accessories include a variety of equipment such as different types of clamps, microphone gear, both stationary and portable lighting kits, power kits, camera connection equipment, and video switches, all working together harmoniously to deliver a high-quality final product.

Portable Video Switcher **BN-VS100**



Overview

Features:

- Friendly Operation
- Output: SDI / PGMx2, HDMI / PGMx1 - SDI / PVWx1
- Multiview Output: SDIx1 and HDMIx1
- Input: SDIx4 and HDMIx2
- Input Format Auto-detected
- Output Format Selectable
- T-Bar / Auto / Cut Transitions
- MIX / FADE / WIPE / FTB Effects
- PIP Mode: Size and position is adjustable
- GPIO port for tally system
- Audio mixer 3.5 mm / RCA & SDI / HDMI Audio
- LAN Port for Network

Portable Video Switcher **BV-HS100**

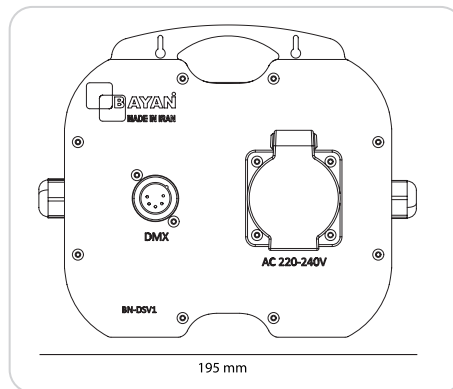
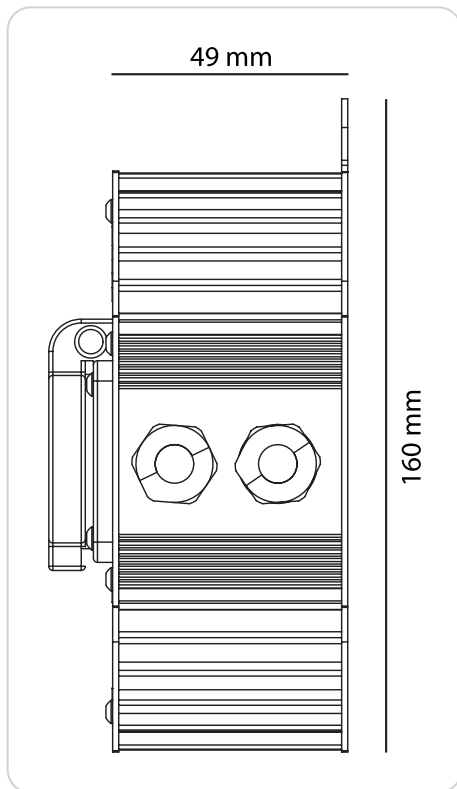


Overview

Features:

- Friendly Operation
- Output: SDI / PGMx2, HDMI / PGMx1 – SDI / PVWx1
- Multiview Output: SDIx1 and HDMIx1
- Input: SDIx4 and HDMIx2
- Input Format Auto-detected
- Output Format Selectable
- T-Bar / Auto / Cut Transitions
- MIX / FADE / WIPE / FTB Effects
- PIP Mode: Size and position is adjustable
- GPIO port for tally system
- Audio mixer 3.5 mm / RCA & SDI / HDMI Audio
- LAN Port for Network

DMX Light Box



Overview

Technical Specifications:

- XLR Male
- Black Box Color
- Single phase electricity
- Input and Output DMX Cable
- Input and Output DMX Board
- Dimension: 195mm x 160mm x 49mm

HMI Panel

BN-HMI200V1



Overview

Features:

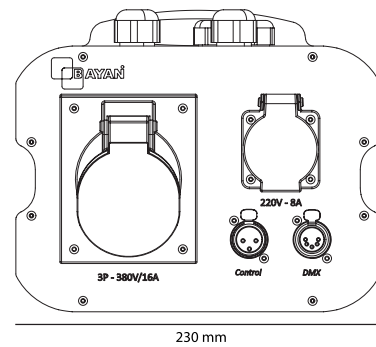
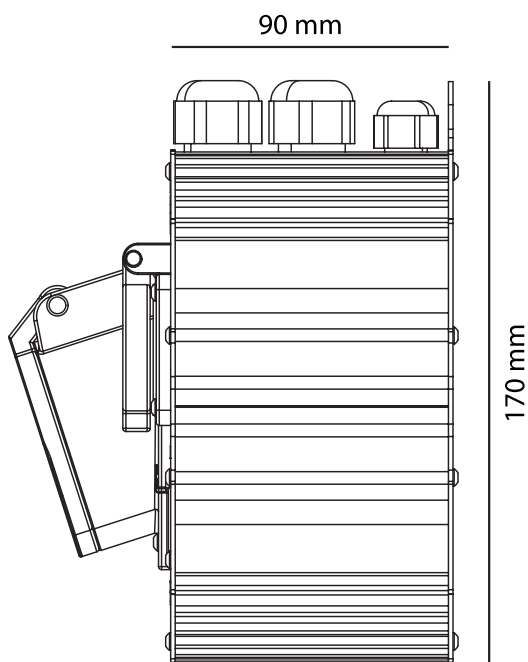
- 27 presets
- 1024 Light Line
- Wireless device
- 12 Light groups
- Customise Controls
- Power Saving mode
- Control brightness level
- Ability to fade in and fade out
- Battery charger device C Type

- 7 Inch capacitive touch screen
- Control motorized projector (pan. tilt. flood and spot)
- It takes less than a second for the device to turn on and turn off

Technical Specifications:

- Weight: 250 gr
- Input Voltage: 5V dc
- Dimension: 113.5 mm x 188.5 mm x 16.5 mm

Power and Control box



Overview

Technical Specifications:

- Black color
- 5 pin XLR port female
- 3 pin XLR port female
- Dimension: 230mm x 170mm x 90mm
- 3-phase socket for Motorize telescopic
- Signal phase socket for cold light (LED)

BAYANI without sunset



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