

# vol.1 News 2011



THINK OF THE  
CONSIDER **FUTURE  
NATURE**



CityFlex 48™



ROBIN® 300 LEDWash



DigitalSpot 3500DT™



ROBIN **MMX** Spot



ROBIN® 600 PureWhite

**ROBE**®

## Robe Innovative Technology



Robe's new ROBIN Series of moving lights combine foresight with the very latest technologies in the ongoing quest for innovation, the provision of imaginative solutions and the manufacture of reliable, high quality lighting products that has always driven the company.

Robe is – and has been for several years – committed to environmental sustainability. A major new green initiative – "Think of the Future – Consider Nature" underlines this continual dedication to producing genuinely cutting-edge, energy saving products.

The ROBIN (Robe Innovative Technology) brand utilizes the very latest plasma and discharge lamp technologies and LEDs, plus premium electronic components, resulting in very unique products that are properly 'power-saving' in multiple contexts.

Robe also relies on a constant and fluid dialogue and engagement with its end users and specifiers. Their collective talents, visions and creative demands coupled with Robe's desire to be a proactive leader in its field continues to inspire future ideas, fuel ambitions and keep the brand moving forward.



# Robe latest innovations

- Robe's very latest ROBIN products are the ROBIN MMX Spot, ROBIN 600 and ROBIN 300 LEDWash fixtures.
- The ROBIN 600 LEDWash is a completely unique fixture in a class of its own. This and the ROBIN 300 LEDWash have all the advantages of Robe's renowned build quality coupled with low power consumption and are designed with the energy conservation philosophies at the essence of the ROBIN Range and the complete "Robe Innovative Technology".
- The **ROBIN MMX Spot** is a new moving light utilising a light source equivalent to 1200 W discharge lamp giving mega-bright output and a long lamp life. It has a fast zoom of 8,5–46,5 degrees, two gobo wheels and an animation wheel – to offer a myriad of imaginative combinations. DMX controlled noise management makes it extremely quiet and ideal for low noise environments.
- Robe has a strong commitment to providing carbon conscious products for all areas of the professional lighting industry, and this is underlined with the launch of a major new green initiative – "Think of the Future – Consider Nature". The company is focused on developing and producing genuinely cutting-edge, innovative and energy saving technology as exemplified in the ROBIN series.
- The exceptional light output of the MMX Spot is provided by **Philips MSR Platinum 35** short arc MiniFastFit lamp. This lamp's new features include better CCT stability, longer useful lifetime and enable high light output while requiring only 800 W power consumption.
- Patented intuitive smart presetting and control via a touch screen control panel with battery back-up for fixture set-up without power helps to make the ROBIN fixtures very cool and easy to control (simply fabulous to touch!). A new self-diagnostics feature gives lighting operators and technicians constant a operational overview throughout the lifespan of the fixture (patent pending).
- Automatic **self-switchable power supply** units are vital for worldwide touring shows. They ensure that the correct voltage is always delivered to the lamp without the need for any region-specific adjustments (an appealing feature to any tech!).
- With increasing demands for speed – for both mechanical parts and communication protocols – Robe has replaced the old PIC chip architecture with **fast, modern 32-bit ARM processors** with a vastly increased memory.
- **The new rotating gobo wheel** with "SLOT&LOCK" gobos (patent pending) offers 7 rotating gobos + open, while the new static gobo wheel with "SLOT&LOCK" gobos (patent pending) includes 9 gobos + open position.
- **The New Dual Graphic Wheel:** Astonishing artistic animations and effects are possible to achieve thanks to the Dual Graphic Wheel. By its unique design it allows creation of interesting Kaleidoscopic effects, as well as effects like fire, water, sky and transitions with morphing through several focusing planes. The wheel also allows movement from side to side.
- The new iris – probably the **fastest iris on the market** – allows opening & closing cycles up to 3 per second. Combined with the remote hot-spot control of the fixture is delivering the maximum light output at any iris aperture (patent pending).
- The new ROBIN MMX Spot fixtures have a large **8,5°–46,5° zoom range**. This consists of a **newly designed lens slide system**, providing controllable and repeatable friction and dampening of the lens movement (patent pending). ROBIN Spot and Wash products feature a **new CMY/CTO colour mixing system**, which can provide rapid and accurate movement without backlash and hysteresis (patent pending).
- All ROBIN products use 3-phase stepper motors, which enable **extremely fast and accurate pan and tilt movements**.
- True White Colours of the LEDWash fixtures brings spotless colormixing of specially calibrated LEDs together with predefined values on a Virtual Color wheel channel allow quick direct calling of exact white hues of 2700 K, 3200 K, 4200 K, 5600 K and 8000 K.
- Unique design and control of Robin 600 LEDWash LED's driving board allows individual control of each LED ring for creation of eye-candy effect, such are color waves or strobing per rings.



The ROBIN® MMX Spot provides very powerful output of 1200 W fixture required for full utilization of unique animating capabilities of two rotating gobo wheels, dual graphic wheel and rotating prism. This "king of animation" is a unique combination of extreme power of the new Philips MSR Platinum 35 lamp, quietness of internal components and specially designed cooling system. The design is packed full of features including HotSpot control, fast Iris, CMY + CTO, variable frost and other effects that allow easy customization via Slot&Lock system. Electronic auto-ranging ballast and power supplies ensure easy global installations, touring and cross renting.



The super-slim ROBIN® 600 LEDWash features 37x 10 Watt RGBW multichip LEDs with colour output ranging from gentle pastels to the richest saturation. Arranged in 3 concentric rings these LEDs offer unique possibilities for creating stunning colour and pattern audience blinding effects as well as for providing comprehensive and perfectly even wash coverage. This system sets the LEDWash 600 ahead of any other LED wash light products, making it a truly, "multi-purpose" unit, equipped also with an extremely versatile 15–60 degree motorised zoom, powerful fast strobing and pre-programmed pulse strobe effects.



## Technical Specification

- **NEW** Philips MSR Platinum 35, 1200 W equivalent
- RNS2 - Innovated Robe Navigation System with LCD touch screen and battery backup, gravitation sensor for auto screen positioning and operation memory service log with RTC
- Linear motorized zoom 8.5°–46.5° (8.5–42.5° for gobo, 9.8°–46.5° for open hole)
- CMY + CTO dichroic colour flag system – for smooth and fast colour mixing
- Colour wheel with 7 dichroic filters + white
- Rotating gobo wheel 1 with 7 + 1 user replaceable "SLOT&LOCK" gobos
- Rotating gobo wheel 2 with 7 + 1 user replaceable "SLOT&LOCK" gobos
- **NEW** Dual Graphic Wheel
- 5-facet rotating indexable prism
- Extremely fast motorized iris, opening and closing pulses up to 3 Hz (patent pending)
- Variable frost effect
- Remote beam flatness/ Hot Spot Control: Hot-or-not-spot
- Mechanical dimmer/shutter, Strobe effect 1/10 Hz
- Electronic ballast with dimming and strobing possibilities
- Electronic auto ranging power supply 100–240 V AC, 50/60 Hz
- Pan and tilt movement in 16/8 bit resolution 540°/270° with locking mechanism
- Silent operation
- Communication protocols USITT DMX-512, ArtNet, MA Net, MA Net2, RDM
- Weight: 25.3 kg (55.7 lbs)

## Technical Specification

- 37x 10 W RGBW LED multichips
- Led Life Expectancy: 60.000 hours
- Typical Lumen Maintenance: 70% @ 60.000 hours
- Linear motorized zoom: 15°–60°
- Virtual colour wheel with 237 colours including whites (2700 K, 3200 K, 4200 K, 5600 K and 8000 K)
- RGBW colour mixing, CTO
- Built-in colour macros
- High resolution dimmer 0–100%
- Strobe effect with variable speed
- Pre-programmed random strobe pulse-effects
- DMX channels: 37/21/15/10/37
- 5 DMX protocol modes
- 3-editable programs, each up to 100 steps
- Ethernet port: Art-Net protocol, ready for ACN
- Data in/out: Locking 3-pin & 5-pin XLR
- RNS2 - Robe Navigation System with LCD touchscreen and battery backup, gravitation sensor for auto screen positioning and operation memory service log with RTC
- Communication protocols: USITT DMX-512, ArtNet, MA Net, MA Net2, RDM
- Electronic auto ranging power supply, 100 – 240V AC, 50/60 Hz
- Power consumption: 430 VA
- Pan and Tilt movement range: 450°/300°; 16 bit resolution
- Mounting points: 2 pairs of 1/4-turn locks
- Dimensions (mm) H x W x D: 444 x 343 x 203



# ROBIN® 600 PureWhite

Spotlessly even light output of the highly popular ROBIN® 600 LEDWash in a PureWhite version, offering smooth output of white only variations. Cold White, Warm White or Smart White combinations of LEDs are arranged in 3 concentric rings for providing comprehensive and perfectly even wash coverage, ideal for car shows, theaters and thank to flicker free LED operation also for TV studios. Fast 15–60 degree motorized zoom, speedy pan and tilt movement and powerful fast strobing with pre-programmed strobe effects of all LEDs or per each individual ring can turn this wash unit into very effective blinding tool.



# ROBIN® 300 LEDWash

Utilizing 19 multichip LEDs and motorized linear zoom 15–50 degrees the ROBIN® 300 LEDWash offers great flexibility with superior homogenization of the light source. Specialized component optics composed of highly efficient elements ensures completely smooth colour mixing and it emphasizes dynamic array of true colours and hues. This lightweight compact fixture is ideal for all small-to-medium applications, particularly those where space and accessibility is an issue.

## Technical Specification

- 37x Cree MC-E RGBW LED multichips
- Led Life Expectancy: minimum 60.000 hours
- Typical Lumen Maintenance: 70 % @ 60.000 hours
- Linear motorized zoom: 15°–60°
- Colour temperature: 6500 K (CW variant), 3000 K (WW variant), 6300 K–2800 K (SW variant)
- High resolution dimmer 0–100%
- LED zone strobe effects with variable speed
- Pre-programmed random strobe pulse-effects
- DMX channels: 18/12/13/10/18 (WW & CW version)  
24/16/12/10/24 (SW version)
- 5 DMX protocol modes
- 3-editable programs, each up to 100 steps
- Ethernet port: Art-Net protocol, ready for ACN
- Data in/out: Locking 3-pin & 5-pin XLR
- RNS2 - Robe Navigation System with LCD touchscreen and battery backup, gravitation sensor for auto screen positioning and operation memory service log with RTC
- Communication protocols: USITT DMX-512, ArtNet, MA Net, MA Net2, RDM
- Electronic auto ranging power supply, 100–240 V AC, 50/60 Hz
- Power consumption: 430 VA
- Pan and Tilt movement range: 450°/300°; 16 bit resolution
- Mounting points: 2 pairs of 1/4-turn locks
- 2x Omega bracket with ¼-turn quick locks



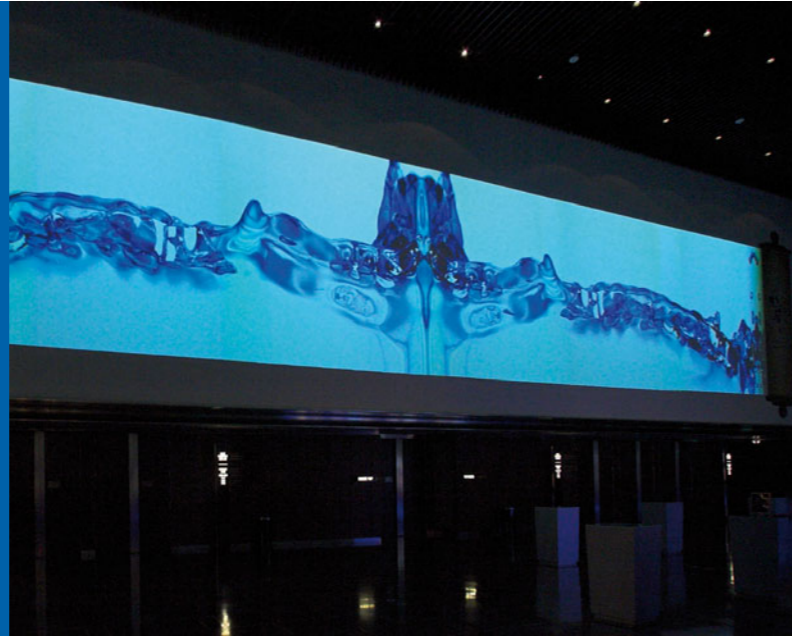
## Technical Specification

- 19x 10 W RGBW LED multichips
- Led Life Expectancy: minimum 60.000 hours
- Typical Lumen Maintenance: 70 % @ 60.000 hours
- Linear motorized zoom: 15°–60°
- RGBW colour mixing, CTO
- Virtual colour wheel with 237 colours including whites (2700 K, 3200 K, 4200 K, 5600 K and 8000 K)
- High resolution dimmer 0–100%
- LED zone strobe effects with variable speed
- Pre-programmed random strobe pulse-effects
- DMX channels: 37/21/15/10/37
- 5 DMX protocol modes
- 3-editable programs, each up to 100 steps
- Ethernet port: Art-Net protocol, ready for ACN
- Data in/out: Locking 3-pin & 5-pin XLR
- RNS2 - Robe Navigation System with LCD touchscreen and battery backup, gravitation sensor for auto screen positioning and operation memory service log with RTC
- Communication protocols: USITT DMX-512, ArtNet, MA Net, MA Net2, RDM
- Electronic auto ranging power supply, 100–240 V AC, 50/60 Hz
- Power consumption: 225 VA
- Pan and Tilt movement range: 450°/300°; 16 bit resolution
- Mounting points: 2 pairs of 1/4-turn lock



# DigitalSpot 3500DT™

ROBE's Digital Moving Light DigitalSpot 3500DT is an enhanced version of the very successful DigitalSpot 3000DT retaining all the best loved features of the original unit, together with a host of new ones. New LCD based 3500 ANSI lumen, 5000:1 contrast ratio equipped projector provides powerful output with possible 3D capabilities when combining several units together. Despite it's light weight and small footprint, the Digital Spot provides large hard drive storage space for digital content (images, movies, textures and effects), Composite video input via BNC connector and now also comes with the possibility for optional DVI/VGA or SDI/ASI grabbing cards. Special design includes remote DMX controlled power on/off, CITP-MSEX protocol for preview of content thumbnails on DMX desks or enhanced network settings for remote access.



# RMS – ROBE Media Server™

The RMS – ROBE Media Server completes successful Robe Digital series. The graphics engine provides all features of DigitalSpot 7000 DT (e. g. four digital gobo layers with selection of up to more than 60.000 original and user-created video clips or images usable on all gobo layers, picture merging effect, projection onto cylindrical/spherical surfaces and angular effects, individual X and Y positioning, CMY colour mixing, digital iris and digital framing shutters, adjustable playback speed and many other features). Supported video formats are MPG1 and MPG2, image formats are JPG, TGA, PNG, GIF, PCX, PNM, XPM and LBM. Hardware includes Intel Core 2 Duo E8400 processor, 500 GB hard disc, 1 GB RAM memory, nVidia 9800 GT graphics card and GA-G41M-ES2H motherboard. Easy manual control via 5 TFT LCD display & Robe navigation system.



## Technical Specification

- BenQ MX 660 projector using TI® DLP® technology
- HDMI video input
- Contrast Ratio 5000:1
- 3200 ANSI lumen light output
- Integrated LED Module, including 48 Luxeon Rebel LEDs (RGBW)
- Compact design
- Power off and on via DMX
- High quality easily readable VGA Menu display
- Image size 24" to 300"
- 3 gobo layers for image and video control
- The graphic engine supports combined total of more than 60.000 original and user-created videos/gobos usable on all gobo layers
- Digital Iris effect + 160 Masking effects
- Full Key-Stone correction
- Digital Strobe Effects
- Picture Merging effect in the field up to 64 segments in several diferent matrice configuration
- Options for DVI/VGA or SDI/ASI grabbing cards
- Composite video input via BNC connector
- CITP-MSEX protocol, allowing the preview of content thumbnails on DMX desk
- 5" TFT LCD display & Robe Navigation System
- Media Content Synchronisation in web interface



## Technical Specification

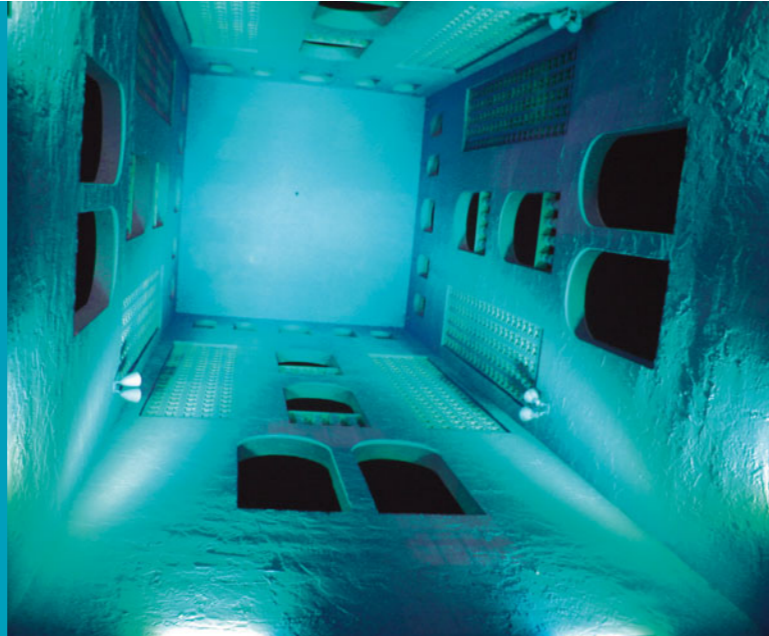
- 4 digital gobo layers for image and video control
- Graphic engine supports a combined total of more than 60.000 original and user-created videos / gobos usable on all gobo layers
- Individual X and Y positioning and scaling for each gobo layer
- 6 Layer Media Control Modes (Copy, Add, Subtract, Multi, Minimum and Maximum)
- Digital iris effect + 160 masking effects
- Full Key-Stone correction
- CMY image and video colour mixing and CTC (Colour Temperature Correction)
- 2 Effect engines per layer with more than one hundred effects
- Huge amount of default images/videos
- Import of user images or videos
- Supported Image Formats: JPG, TGA, PNG, GIF, PCX, PNM, XPM and LBM (max. 4096 x 4096 pixel)
- Supported Video Formats: MPEG1, MPEG2
- Effect video synchronization
- Picture Merging effect in the field up to 64 segments in several different matrice configuration
- Projection onto cylindrical/spherical surfaces and angular screens
- Video processing on all gobo layers from a remote streaming video server
- Operating system: Linux
- Control: 5" TFT LCD display & Robe navigation system
- Web access for total control of fixture, Media Content Synchronization in web interface
- 148 control channels
- Video input (standard): 1 x S-Video (Mini Din 4 pin), 1 x Composite video (RCA)
- Video output: 2x VGA (Mini D-sub 15 pin), 2x RGBHV (BNC)

- Hardware: Intel Core2 Duo E8400 processor, 1 GB RAM memory, 500 GB hard disk, nVidia 9800 GT graphics card, Gigabit Ethernet
- Input voltage range: 100–120V/200–240V AC, 50/60Hz
- Dimensions (HxWxD): 181 mm x 438mm x 502mm



# CityFlex 48™

Latest multichip LED technology is harnessed in these customizable powerful LED lines with unbeatably strong and uniform light output suitable for any application with the highest requirements. The unique design (patent pending) allows multiple lighting formats from one fixture – be it a compact floodlight format, traditional linear LED format or a variety of different angled options. The fixture's incredible flexibility means previously unobtainable effects are now available from a single unit. Durable housing of aluminium casting (with IP 65 rating) is fitted with bright multichip LEDs that create ideal colour mixing in single point source of definable pixel pitch. Individually controlled LEDs allow pixel mapping of many custom shaped lines into unique personalized designs. Integrated universal mounting system is prepared for standing or mounting in any position on the floor, wall or trusses.



# Robe Universal Interface WTX™

Wireless DMX + RDM enhanced version of the Robe Universal Interface magnifies this powerful multi-functional toolbox. The unit communicates with a PC or Laptop via USB and besides the standard Robe Universal Interface features it provides wireless capabilities for both DMX controlling and bi-directional RDM setup, management and monitoring. Fixture software updates can now be carried out via either wired or wireless link. The wireless communication is based on robust CRMX technology which includes advanced features such as automated cognitive coexistence, DMX fidelity, low latency, strong encryption and more.



## Technical Specification

- 4 LED line strips, each with 3x Cree MC-E RGBW multichip
- Typical Lumen Maintenance: 70% @ 60,000 hours
- Beam angle: 10° or 25°
- RGBW colour mixing, CTO
- White colour balance adjusting
- Preset 255 colour macros
- 4-digit LED display
- 4/48/52/8/2 DMX control channels, RDM support
- Pixel control- each LED multichip can be controlled separately
- 3 user editable programs each up to 68 steps
- DMX operation, Stand-alone operation, Master/Slave operation
- Integrated power supply, electronic auto-ranging 100–240 V/50–60 Hz
- LED strips can be separated from control base
- Wide range of LED modules positioning:
  - All strips towards base: pan +45° / -45° tilt +90° / -90°
  - strips against each other: pan +180° / -180° tilt +30° / -30°
- Protection factor: IP 65



## Technical Specification

- Supported operating systems
- Windows, Mac OS X, Linux
- No extra PSU needed
- Galvanic isolation of 1kV between DMX Input and USB (DMX Output and USB)
- USB/ DMX converter
- Provides fixture software updates
- Brings RDM communication protocol into DMX 512 control systems
- RDM-network software allows:
  - Fixture Status Monitoring
  - Fixture Personality Setting
  - AutoPatch
- Cognitive coexistence dynamically avoids occupied frequencies
- Compliance with USITT DMX-512 (1986 & 1990) and 512-A
- Full DMX fidelity and frame integrity
- Auto sensing of DMX frame rate and frame size <5 ms DMX latency
- Operational frequency range of 2402–2480 MHz
- DMX data in/out: Locking 5-pin XLR
- USB 2.0 (series B)
- Built-in wireless DMX/RDM transmitter
- Rugged aluminium housing



# vol.1 NEWS 2011



**ROBE**<sup>®</sup>

www.robe.cz

**Head office:** ROBE lighting s. r. o. | Házovice 2090 | 756 61 Rožnov pod Radhoštěm | Czech Republic | Tel.: +420 571 751 500 | Fax: +420 571 751 515 | E-mail: robe@robe.cz |  
**Factory:** ROBE lighting s. r. o. | Palackého 416 | 757 01 Valašské Meziříčí | Czech Republic | **UK:** ROBE UK Ltd. | Northampton, UK | Tel.: 01604 741000 | E-mail: info@robeuk.com |  
**America:** ROBE Lighting Inc. | 12349SW 53<sup>rd</sup> Street, Suite 202 | Cooper City | FL, USA | Tel.: +1 954 680 1901 | E-mail: info@robelighting.com | **South-East Asia:** ROBE S.E.A. | Singapore | Tel.: +65 8118 6665 | E-mail: info@robe-sea.com | **United Arab Emirates:** Makateb Business Centre | Makeen Tower, Corner of 9th and 10th Street | Abu Dhabi | UAE | Tel.: +971 2 657 3461 | E-mail: info@robeme.com | **Russia and CIS:** Taganskaya str. 26 – 1 – 72 | 109004 Moscow | Russia | Tel: + 7 495 504 9569 | E-mail: info@roberussia.com |  
**Central and South America:** Galicia 1200 ap 303 | 1100 Montevideo | Uruguay | Tel.: +5982 2900 67 47 | Email: info@robecs.com