Uniscan 48V – A minimalist and multi-talented

The specialist for galleries as a compact 48V system
Compact, flexible and easy to handle: Uniscan brings maximum quality of light to sophisticated art galleries and museums. The neutral, cylindrical design fits into rooms of any style, miniaturized 48V technology reduces the dimensions of luminaires, tracks and adapters. Adaptability is a key feature of Uniscan, because every exhibition needs different light. Light distributions can be changed at any time thanks to the interchangeable lens units. The darklight lenses give the Uniscan spotlights a magical appearance. Tunable white and wireless control via Casambi Bluetooth make it possible to interactively design with light colors and dimming values. Further dimming options and interfaces with interchangeable control units ensure future-proof connectivity.

Structure and characteristics
The features described here are typical of products in this range. Special versions may offer additional or varying features. A comprehensive description of the features of individual products can be found on our website.

1 ERCO lenses
- Made of optical polymer
- Darklight lenses: narrow spot, spot, flood, wide flood or extra wide flood
- Spherolit lenses: oval flood or wall-wash
- Zoom lenses: zoom spot; continuously focusable
- Projection lenses: narrow framing or wide framing; continuously focusable

2 Lens unit
- Rotatable through 360°
- Polymer, white or black
- Contour spotlights with framing attachment

3 ERCO LED-module
- High-power LEDs: warm white (2700K or 3000K), neutral white (3500K or 4000K), tunable white (2700-7500K) or RGBW
- Collimating lens made of optical polymer

4 Housing and bracket
- White (RAL9002) or black
- Die cast zinc or cast aluminum, powder-coated
- Pivotable 0°–90°
- Bracket: cast aluminum/polymer; rotatable through 360° on adapter

5 Control gear
- On-board Dim or Casambi Bluetooth
- On-board Dim version: rotary control for control of brightness on the luminaire

6 ERCO Minirail adapter

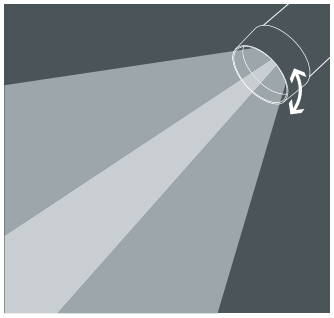
Variants on request
- Housing: 10,000 further colors

Please contact your ERCO consultant.

Design and application:
www.erco.com/uniscan-48v

Uniscan 48V for Minirail track

Darklight lens
The darklight lens not only creates a magical impression with just one light point. It also features precise, uniform light distributions, wide flexibility in the selection of beam characteristics and state of the art efficiency.



Zoom spotlights
The light beam diameter can be infinitely adjusted from spot (15°) to wide flood (65°) by simply turning the lens. Zoom spotlights are particularly suitable for illuminating areas with changing exhibits and merchandise.

Contour spotlights
Framing attachments enable a sharply defined light beam. In this way fascinating effects can be created with contour spotlights, where crisply illuminated pictures appear to illuminate from within.

Tunable white technology
Just as the color temperature outdoors changes continuously during the day, the color temperature of the lighting can be adjusted indoors to e.g. support lighting concepts for Human Centric Lighting.

Colored light
Using colored light, the environment can be designed and transformed with either subtle or dramatic contrasts. LEDs enable you to generate colored light very efficiently and flexibly.

Special characteristics

- Efficient darklight technology
- Zoom spotlight
- Contour spotlight
- Tunable white
- Colored light

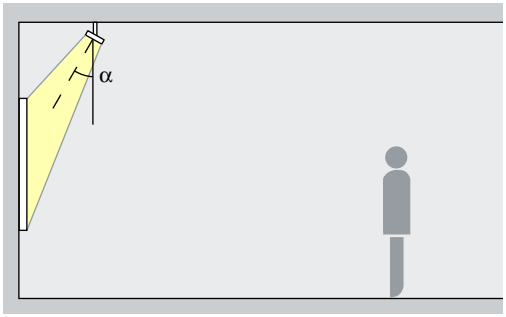
- ERCO high-power LEDs
- Optical cut-off 40°/50°/60° from horizontal
- Different light distributions
- Oval flood, freely rotatable
- Different light colors

- Excellent thermal management
- EMC-optimized
- Various housing colors
- Various construction sizes
- Pivotable through 90°
- Accessory for maximum visual comfort

- On-board Dim
- Casambi Bluetooth

Uniscan 48V for Minirail track – Luminaire arrangement

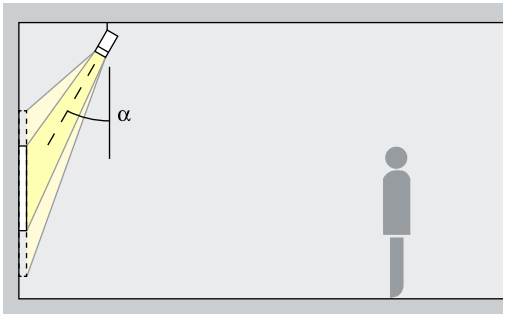
Spotlights
Narrow spot, Spot, Flood



Works of art, merchandise and architectural details are effectively accentuated with Uniscan. The ideal angle of tilt (α) for this is around 30°. The object is modeled without distorting the effect as a result of excessive shadowing. It also prevents shadows cast by the observer.

Arrangement: α = 30°

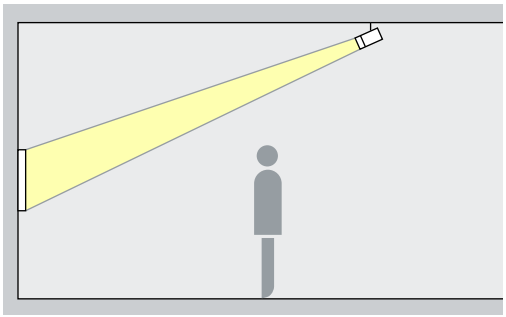
Zoom spotlights
Zoom spot



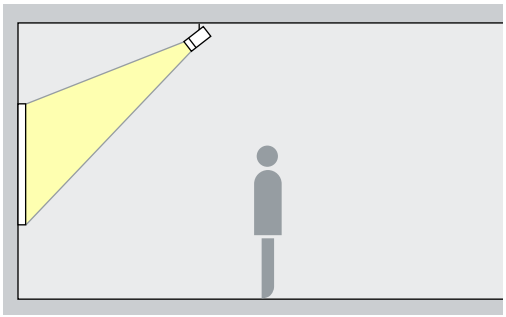
Zoom spotlights feature a continuously adjustable beam angle. With the spot to wide flood zoom range, smaller works of art can be accentuated effectively at an inclination angle (α) of approximately 30°. The object is modeled without distorting the effect as a result of excessive shadowing. It also prevents shadows cast by the observer.

Arrangement: α = 30°

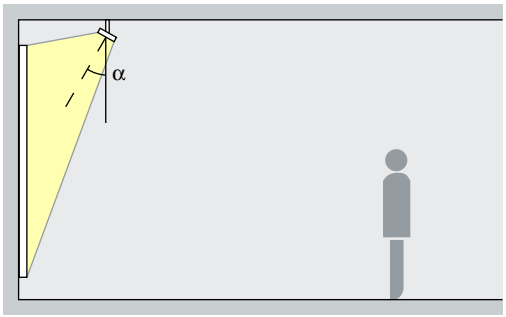
Contour spotlights
Narrow framing, Wide framing



Contour spotlights generate freely adjustable, crisp-edged light beams. As a result fascinating effects can be created where pictures appear to illuminate from within. Select narrow framing to accurately illuminate small exhibits from a long distance and wide framing to accurately illuminate large exhibits from a short distance.



Floodlights
Wide flood, Extra wide flood, Oval flood

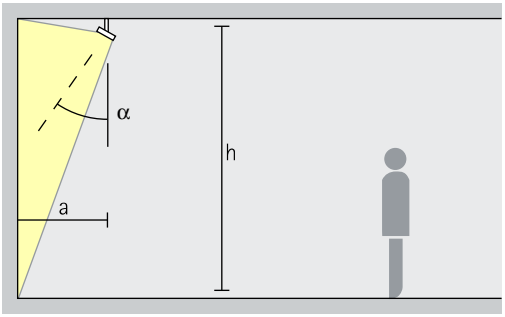


The ideal angle of tilt (α) for floodlighting objects with a long, square shape, e.g. pictures, sculptures or merchandise displays, is around 30°.

Arrangement: α = 30°

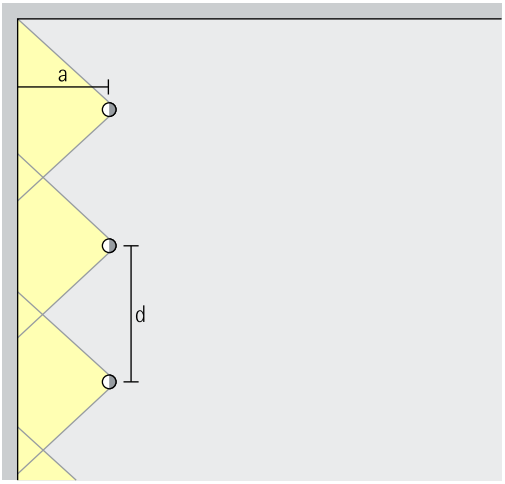
Uniscan 48V for Minirail track – Luminaire arrangement

Lens wallwashers
Wallwash



For uniform vertical lighting, the distance to the wall (a) of Uniscan lens wallwashers should be around one third of the room height (h). This results in an angle of tilt (α) of around 35°.

Arrangement: a = 1/3 x h or α = 35°



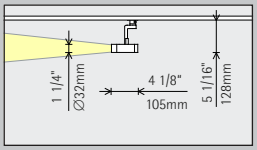
For good longitudinal uniformity, the spacing (d) of Uniscan lens wallwashers may be up to 1.5 times the distance to the wall (a).

Arrangement: d ≤ 1.5 x a

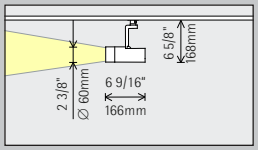
Optimal wall distances and luminaire spacing values for individual products are specified in the wallwasher tables at www.erco.com.

Uniscan 48V for Minirail track

Size



XS
∅ 1 1/4"



S
∅ 2 3/8"

LED module
Maximum value at 4000K CRI 92

XS		S	
3.1W/404lm	3,1W/404lm (Narrow spot)	12.4W/1618lm	3,1W/339lm (Narrow spot)

Light color

XS			S		
2700K CRI 92		3500K CRI 92	2700K CRI 92		3500K CRI 92
3000K CRI 92		4000K CRI 92	3000K CRI 92		4000K CRI 92
3000K CRI 97			3000K CRI 97		

Light distribution

XS		S	
Spotlights	Floodlights	Spotlights	Floodlights
Narrow spot	Wide flood	Narrow spot	Wide flood
Spot	Extra wide flood	Spot	Extra wide flood
Flood	Oval flood	Flood	Oval flood
Zoom spotlights	Lens wallwashers	Zoom spotlights	Lens wallwashers
Zoom spot	Wallwash	Zoom spot	Wallwash
		Contour spotlights	
		Narrow framing	
		Wide framing	

Control

XS	S
On-board Dim	On-board Dim
Casambi Bluetooth + 0-10V via Bridge	Casambi Bluetooth + 0-10V via Bridge

Color (housing)

XS		S	
White	10,000 colors *	White	10,000 colors *
Black		Black	

Accessory

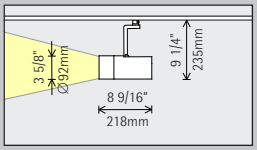
Lenses	Lens Units	Snoot	Add-on Control Units
Filter	Honeycomb louvre	Barn doors	Bridges/Gateways * 0-10V, DALI, DMX

* available on request

www.erco.com/uniscan-48v

Uniscan 48V for Minirail track

Size



M
Ø 3 5/8"

LED module
Maximum value at 4000K CRI 92

21.7W/2831lm	4,2W/426lm (Narrow spot)
18W/2155lm	

Light color

2700K CRI 92	3500K CRI 92
3000K CRI 92	4000K CRI 92
3000K CRI 97	
Tunable white	

Light distribution

Spotlights	Floodlights
Narrow spot	Wide flood
Spot	Extra wide flood
Flood	Oval flood
Zoom spotlights	Lens wallwashers
Zoom spot	Wallwash
Contour spotlights	
Narrow framing	
Wide framing	

Spotlights	Floodlights
Spot	Wide flood
Flood	Extra wide flood
Zoom spotlights	Oval flood
Zoom spot	Lens wallwashers
Contour spotlights	Wallwash
Narrow framing	
Wide framing	

Control

On-board Dim
Casambi Bluetooth + 0-10V via Bridge
Casambi Bluetooth + 0-10V via Bridge

Color (housing)

White	10,000 colors *
Black	
White	10,000 colors *
Black	

Accessory

Lenses	Lens Units	Snoot	Add-on Control Units
Filter	Honeycomb louvre	Barn doors	Bridges/Gateways * 0-10V, DALI, DMX

16.4W/1524lm

RGBW

Spotlights	Floodlights
Spot	Wide flood
Flood	Extra wide flood
Zoom spotlights	Oval flood
Zoom spot	Lens wallwashers
Contour spotlights	Wallwash
Narrow framing	
Wide framing	

Casambi Bluetooth
+ 0-10V via Bridge

White	10,000 colors *
Black	

* available on request

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