



## Gimbal Basic – Cardanically adjustable

**Recessed spotlight with a compact high-precision swivel mechanism**  
Cardanic suspensions are commonly found in the world of technology – Leonardo da Vinci proposed them for a ship's compass and in the lighting technology sector they provide an elegant solution for the precise adjustment of luminaires. Gimbal Basic recessed spotlights bring this principle into the digital lighting era – with an especially precise, comfortable swivel function that is also more compact than conventional swivel mechanisms, in turn enabling lower

recess depths. Different sizes and wattages with various light distributions make Gimbal the ideal system for nuanced lighting design focusing on the high-contrast presentation of objects. With its unique technoid appearance in the ceiling, Gimbal Basic lends itself perfectly to retail projects as well as to museums and other public buildings.



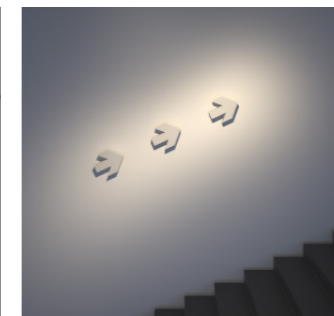
**Structure and characteristics**

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.

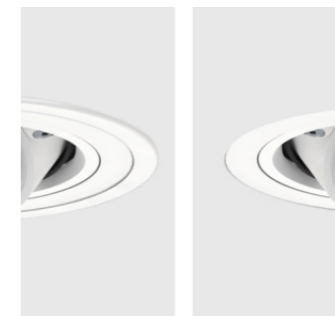
- 1 ERCO Spherolit lens**
    - Light distributions: spot, flood, wide flood, oval flood or wallwash
    - Oval flood 360° rotation
  - 2 ERCO LED-module**
    - Chip-on-board LED: warm white (2700K or 3000K), neutral white (3500K or 4000K) or Fashion (3000K)
    - Collimating lens made of optical polymer
  - 3 Mounting ring**
    - Covered mounting detail
    - Fixing for ceiling thicknesses of 1–25mm (size 4) or 1–30mm (size 5–7)
    - Polymer, white
    - For flush mounting: mounting ring to be ordered separately, fixing for ceiling thicknesses of 12.5–25mm
  - 4 Luminaire**
    - Black
    - Cast aluminium, powder-coated
    - Gimbal suspension: polymer
    - 0°–40° tilt
  - 5 Control gear**
    - Switchable or DALI dimmable
- Variants on request**
- Connection: 3- or 5-pole plug with connection cable (Wago or Wieland)
  - Housing: 10,000 further colours
  - Ceiling channel system
- Please contact your ERCO consultant.



**Cardanic suspension**  
Especially with high ceilings, small swivel movements have a strong effect on the position of the light beam - cardanic suspension facilitates precise luminaire alignment in such cases.



**Oval flood freely rotatable**  
With luminaires with round light emission, the oval flood Spherolit lens can be freely rotated to align the light optimally to various objects.



**Covered or flush mounting detail**  
As standard, all recessed luminaires have overlapping installation details. Flush mounting rings are available as accessories.



**Shallow recess depth**  
In compact installation situations, every millimetre is decisive with the recess depth of a luminaire. ERCO has thus developed special luminaires for shallow recess depths that guarantee very good quality of light even in very tight installation conditions.



Design and application:  
[www.erco.com/gimbal-basic-r](http://www.erco.com/gimbal-basic-r)

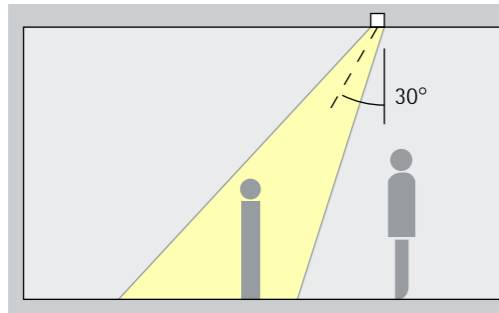
**Special characteristics**

- Oval flood, freely rotatable
- Gimbal suspension
- Flush or covered mounting detail
- Shallow recess depth

ERCO chip-on-board LED	Excellent thermal management	Switchable
Efficient Spherolit technology	EMC-optimised	DALI dimmable
Different light distributions	Various construction sizes	
Different light colours	Pivotable through 40°	
	Tool-free mounting	
	Accessory for maximum visual comfort	

## Gimbal Basic Recessed spotlights, floodlights, wallwashers – Luminaire arrangement

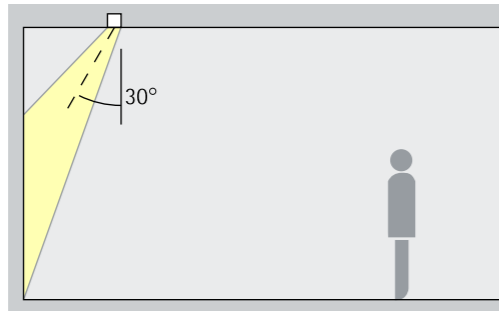
### Recessed spotlights Spot, Flood



Works of art, merchandise and architectural details are effectively accentuated with Gimbal Basic recessed spotlights. The ideal angle of tilt ( $\alpha$ ) for this is around 30°. The object is modelled without distorting the effect as a result of excessive shadowing. It also prevents shadows cast by the observer.

Arrangement:  $\alpha = 30^\circ$

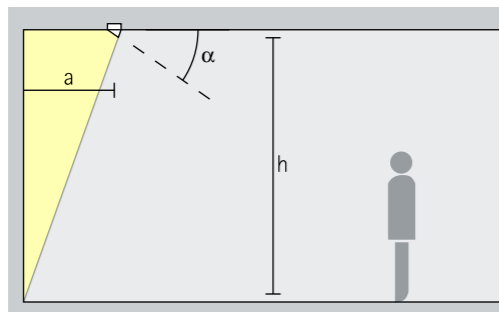
### Recessed floodlights Wide flood, Oval flood



The ideal angle of tilt ( $\alpha$ ) for flood-lighting objects with a long, square shape, e.g. pictures, sculptures or merchandise displays, is around 30°.

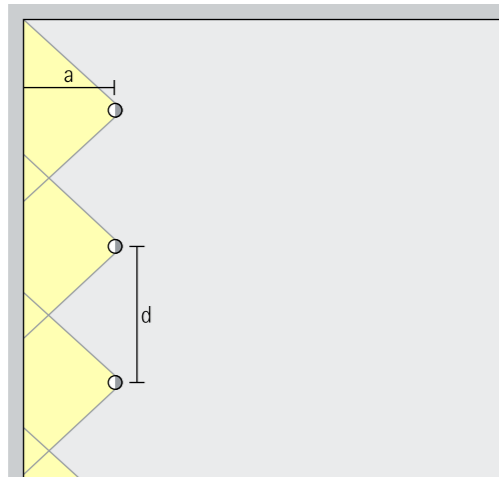
Arrangement:  $\alpha = 30^\circ$

### Recessed lens wallwashers Wallwash



For uniform vertical illuminance, the distance (a) of Gimbal Basic lens wallwashers from the wall should be around one third of the wall height (h). This results in an angle of tilt (a) of approx. 35°.

Arrangement:  $a = 1/3 \times h$  or  
 $\alpha = 35^\circ$



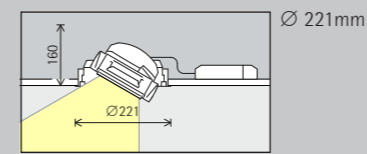
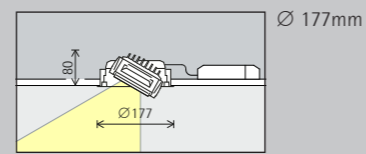
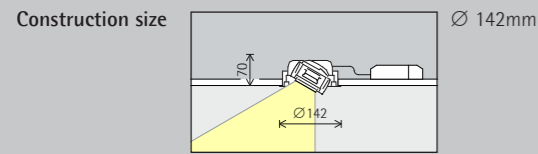
For good longitudinal uniformity, the spacing (d) of Gimbal Basic lens wallwashers may be up to 1.2 times the distance to the wall (a).

Arrangement:  $d \leq 1.2 \times a$

Optimal wall distances and luminaire spacing values for individual products are specified in the wall-washer tables at [www.erco.com](http://www.erco.com).



# Gimbal Basic Recessed spotlights, recessed floodlights, recessed wallwashers



LED module  
Maximum value  
at 4000K CRI 82  
10W/1635lm

21W/3270lm

36W/5810lm

Light colour

	2700K CRI 82		3500K CRI 92
	2700K CRI 92		4000K CRI 82
	3000K CRI 82		4000K CRI 92
	3000K CRI 92		Fashion

	2700K CRI 82		3500K CRI 92
	2700K CRI 92		4000K CRI 82
	3000K CRI 82		4000K CRI 92
	3000K CRI 92		Fashion

	2700K CRI 82		3500K CRI 92
	2700K CRI 92		4000K CRI 82
	3000K CRI 82		4000K CRI 92
	3000K CRI 92		Fashion

Light distribution

Recessed spotlights	Recessed floodlights
Spot	Wide flood
Flood	Oval flood
Recessed lens wallwashers	
Wallwash	

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Wallwash	

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Wallwash	

Control

	Switchable
	DALI

	Switchable
	DALI

	Switchable
	DALI

Colour (housing)

	Black
	10,000 colours *

	Black
	10,000 colours *

	Black
	10,000 colours *

Accessories

	Lenses		Concrete mounting enclosure		Compensation set
	Snoot		Mounting ring		Cover ring
	Cross-baffle		Spacer plate		
	Honeycomb anti-glare screen		Mounting plate for panelled ceilings		

\* available on request

Article numbers and planning data:  
[www.erco.com/019312](http://www.erco.com/019312)

Design and application:  
[www.erco.com/gimbal-basic-r](http://www.erco.com/gimbal-basic-r)

