

## Resolve Optics Z10-HDcf Compact Zoom Lens

### LE200

The new compact Z10-HDcf high definition zoom lens is ultra compact with dimensions of just 45 x 45 x 98.3 mm including the C-mount thread.

Although the lens is ultra compact it has big lens performance with an unbeatable close focus of 450 mm.

The performance of the lens is enhanced through the use of low dispersion glass.

The zoom and focus movements utilises floating cell technology producing a smooth, light movement ensuring the best performance throughout the zoom range.

### Features

- 10x Zoom
- C-Mount
- M37 W/A adaptor available
- Full HD Resolution
- Ultra compact
- Max aperture f/1.8-f/2.8
- Close focus down to 450mm
- Motorised zoom, focus and iris
- Topside and back focus adjustment

What really makes the Z10-HDcf really stand out from the crowd is its versatility.

Due to a unique user interchangeable rear cell this lens can be adapted to work with sensor formats from 1/3" up to and including 2/3" single and 3CCD.

When fitted with a 1/3" format rear cell the lens will have a focal length of 7.5 to 75 mm. Change to a 2/3" format rear cell and you will have a focal length of 14 to 140 mm.

On top of the ultra compact size, superb performance and unique image format flexibility the Z10-HDcf also has built in topside and back focus adjustment to make setting up as simple as it could possibly be.

### Applications

- Broadcast
- Film
- Industrial
- Medical
- Military
- Sport
- TV
- Wildlife



### Minicam Compatibility

- 1/3" Single Chip
- 1/3" Triple Chip
- 2/3" Single Chip

### Recommended Manufacturers:

Hitachi, Iconix, IndieCam, IO Industries, LMC, LMP, Sinacam, Toshiba



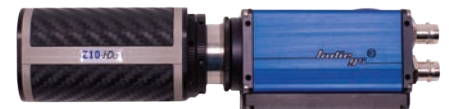
Toshiba



IO Industries



Iconix



IndieCam



### PE0603V

Zoom-Iris-Focus

*Separate datasheet available*



### LE081

Wide Angle Adaptor

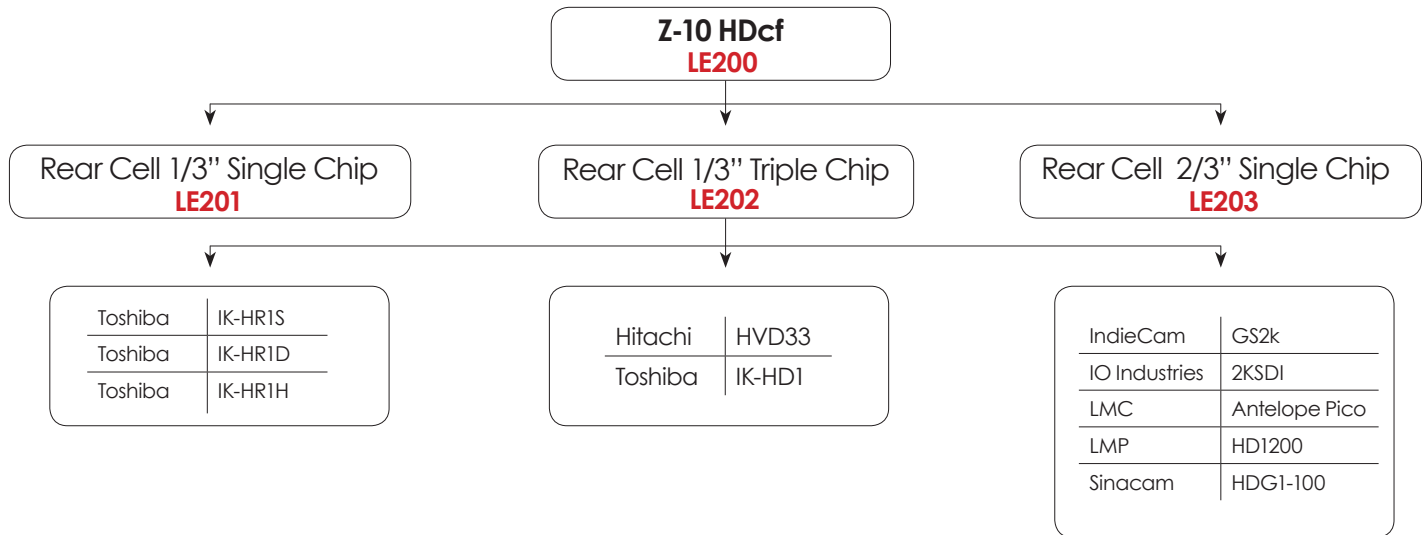
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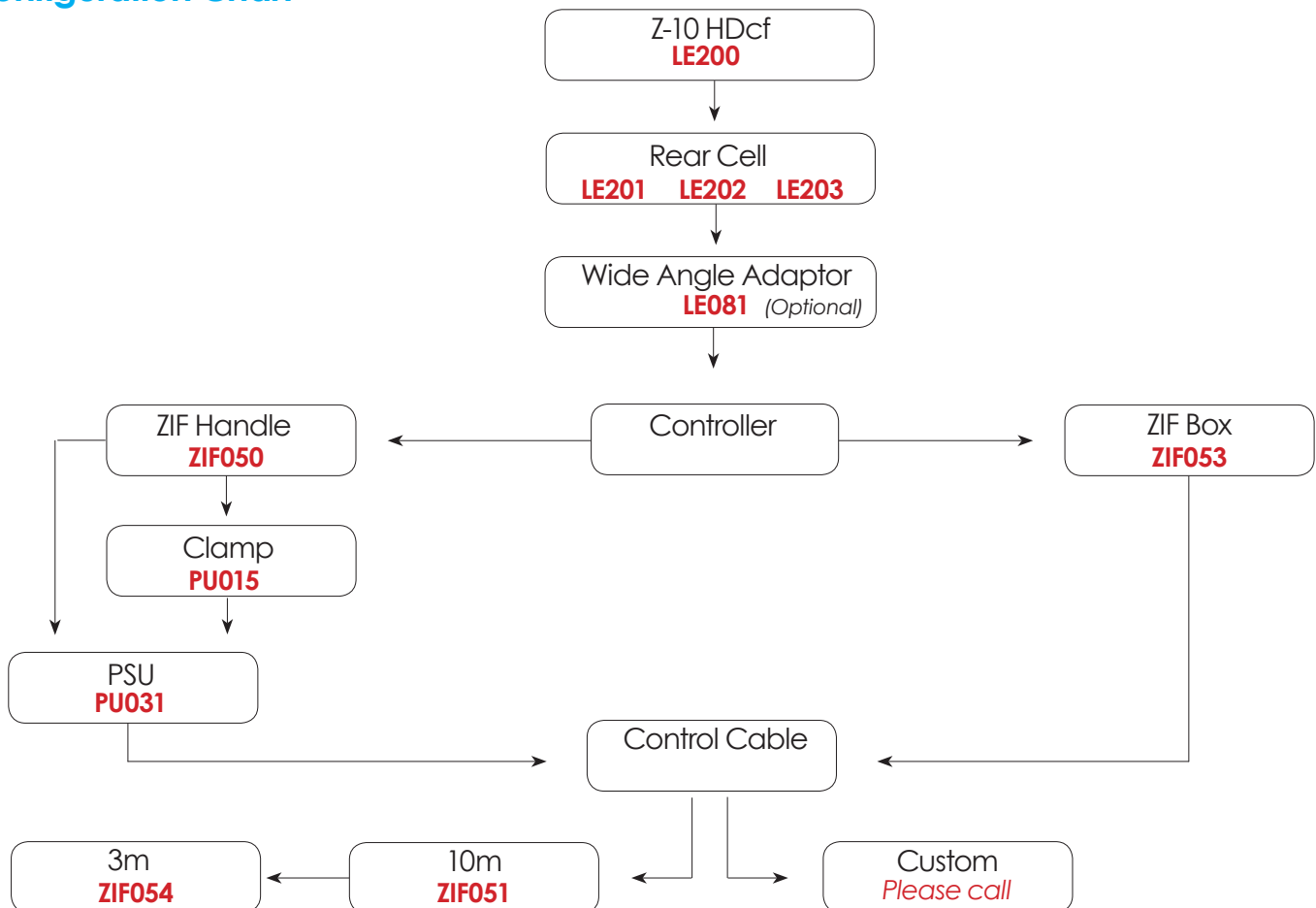
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### Compatibility Chart



### Configuration Chart

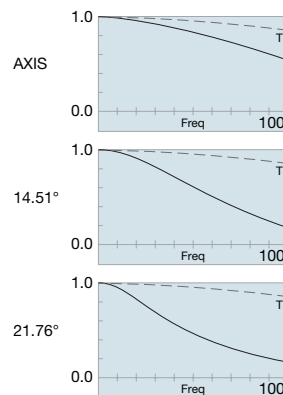
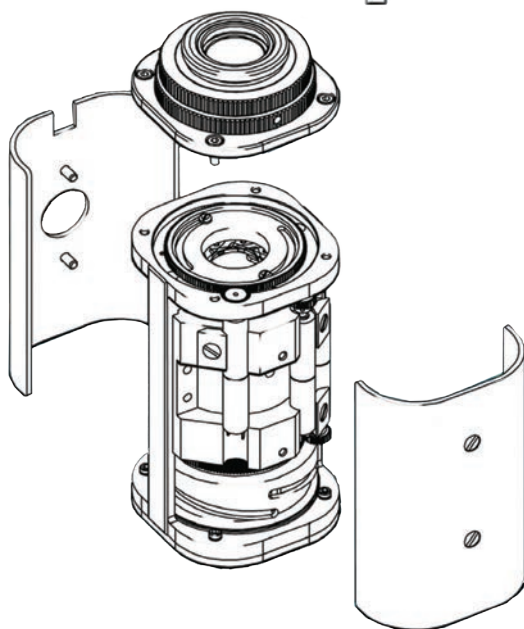
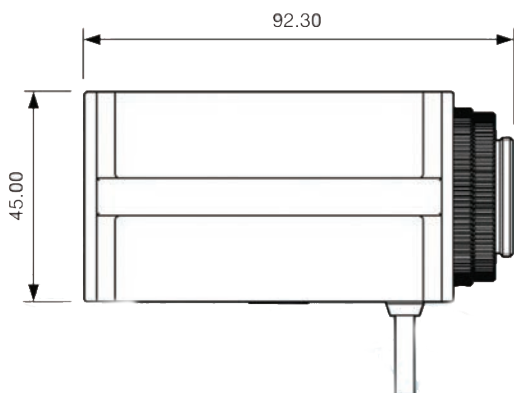


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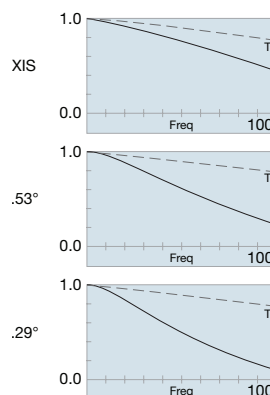
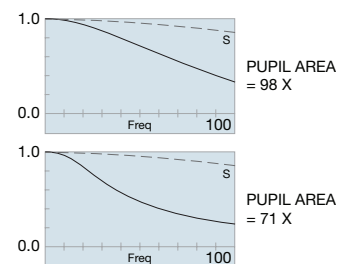
### LE200

Focal Range	7.5-75mm (10x zoom)
Aperture	F1.8-16
Maximum Aperture	F1.8-F2.8
Zoom Adjustment	Motorised (0-3V DC)
Focus Adjustment	Motorised (0-3V DC)
Iris Adjustment	Motorised (0-3V DC)
Angle of view	38.5°-3.85° Horizontal
Minimum object distance	0.45 metre
Lens arrangement	7 groups, 9 elements
Back focus	Yes
Topsiding	Yes
Mount	C-mount (17.526mm in air)
Filter Thread	M37
Lens Mount	1/4" BSW tripod mount
Dimensions	45 x 45 x 98.3 mm
Weight	313 grammes

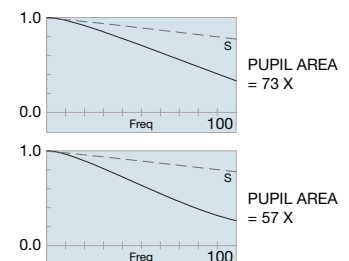
Format Options	1/3" 1-CCD or 1-CMOS	38.5°-3.85°
	1/3" 3-CCD	
	2/3" 1-CCD or 1-CMOS*	37.85°-3.93°
	*This is a 14-140mm (10x) zoom with an aperture of F3.4- $\emptyset$ 12.5mm. Image circle	
Optical Summary	HD Resolution from 180lp/mm Very low chromatic shifting over the complete Visual spectrum (less than $< 3\mu\text{m}$ ) High MTF throughout iris range Low distortion even in the corners Apochromatic correction for complete spectrum	
Speeds at 3 Volts DC:	Zoom	4 Seconds
	Focus	3 Seconds
	Iris	2 Seconds
N.B. Slower operation can be achieved by turning down the voltage		
<b>Do not exceed 3 volts DC</b>		



FOCAL LENGTH 7.5mm

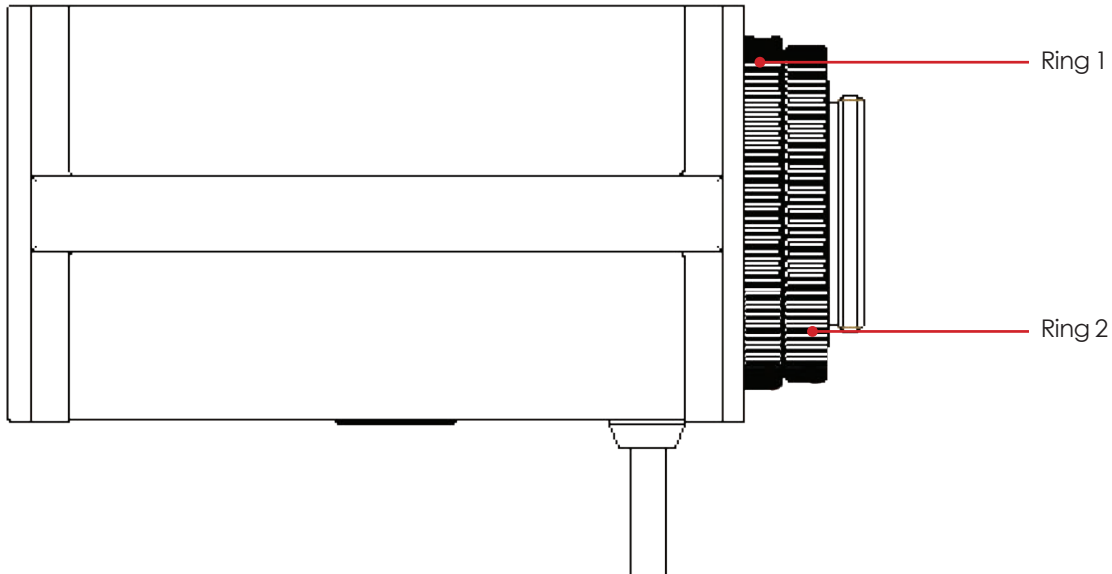


FOCAL LENGTH 75mm



## Resolve Optics Z10-HDcf Compact Zoom Lens LE200

### Topside and Back Focus Adjustment Instructions



1. With both **Ring 1** & **Ring 2** tight on lens. Screw lens to camera.
2. Slacken off both the setscrews on **Ring 1**
3. Rotate the lens body to set camera register/back focus setting.

#### To set Zoom Tracking

- Zoom lens to wide image - Focus using **Ring 1**.
- Zoom to narrow image - Focus using lens focus.
- Repeat sequence until best focus is maintained between wide and narrow images.

Tighten both setscrews on **Ring 1**. The register is now set.

4. Turning **Ring 2** anti-clockwise will allow the lens body to be rotated to the desired topside position. Re tighten **Ring 2** when topside is set.

The lens is now ready to use.



Ring 2 spanner

#### Please note:

When setting "back focus" always select an object at infinity, i.e. more than 10m/33'