

EO Product Portfolio

Boris Lange



Content

- **This presentation comprises most, not all product series of EO's C-Mount fixed focal length standard portfolio.**
- **If a certain focal length covering a certain sensor format is not found in the following slides: Please contact EO.**
- **None of EO's S-Mount and telecentric lenses are presented.**

C-Mount Fixed Focal Product Series

- **Visible Range: 425-675nm**

- 1/2" and 1/1.8" sensor formats:

UC Series (ultra-compact)

- 2/3" sensor formats:

C Series (compact)
Also: **Ci, Cr**

- 2/3" sensor formats, high res:

HP Series (high performance)

- 1" sensor formats:

HP Series (high performance)



- **NIR Range: Up to 1000nm**

- 2/3" sensor formats:

C Series, VIS-NIR coating

UC Series

- **Ultra-Compact lenses**
- **Ultra-high resolution**
2.2 μ m Pixels on 1/2.5" (Aptina 5MP)
- **Max. sensor formats 1/1.8" and 1/2"**
- **6 focal length lenses**
- **Detailed information and step files:**
[Link](#) UC Series



NEW
1/2" Format
4 mm



NEW
1/2" Format
6 mm



NEW
1/2" Format
8 mm



NEW
1/1.8" Format
12 mm



NEW
1/1.8" Format
16 mm



NEW
1/1.8" Format
25 mm

C Series

- Compact lenses
- Max. sensor format **1/1.8"** and **2/3"**
- Ten focal length lenses [mm]:

3.5 // **4.5** // **6** // 8.5 // 12 //
16 // 25 // 35 // 50 // 100

- Focal lengths available with VIS NIR Coating: underlined

- Detailed information and step files:
[Link](#) C Series, [Link](#) VIS-NIR



Ci Series

- **Same optical design as C Series**
- **Simplified focusing mechanism**
- **Fixed apertures**
- **Benefits:**
 - More compact // Less weight // Less cost
 - **For all applications that don't need flexibility**
- **Six focal length lenses [mm]:**
 - 6 // 12 // 16 // 25 // 35 // 50
- **Each available in up to 8 different f/# (f/1.8 – f/16)**
- [Link](#)



Cr Series

- **Same as Ci, but Ruggedized**

- Optics glued in place
- C-mount clamp
- For most demanding applications with respect to shock and vibration: **Robotics, 3D Metrology**



- **Seven focal length lenses [mm]:**

- 6 // 8.5 // 12 // 16 // 25 // 35 // 50

- **8.5mm based on HP Series Design – not C Series**

- **Each available in up to 8 different f/# (f/1.8 – f/16)**

- [Link](#)



HP Series // 2/3" Sensors

- **High Performance Series**
- **Six focal length lenses [mm]:**

- 8.5 // 12 // 16 // 25 // 35 // 50



- **Optimized for distinct working distance (WD) ranges to ensure highest resolution**

- Example, 12mm lenses:
 - Part No 63777: 12mm 150 - 500mm WD
 - Part No 63778: 12mm 400 - 2000mm WD
 - Part No 63779: 12mm 1000 – Inf WD

Note: All lenses can be focused to Inf! Just a question of optimized performance.

HP Series // 1" Sensors

- **High Performance Series for 1" sensors**

- **Five focal length lenses [mm]:**

- 12 // 16 // 25 // 35 // 50



12mm Focal Length, #86-570

- **A bit hidden on the website: Same as the HP 2/3" Series**

- **[Link](#)**