TMS-Lite

Lens Selection Tutorial

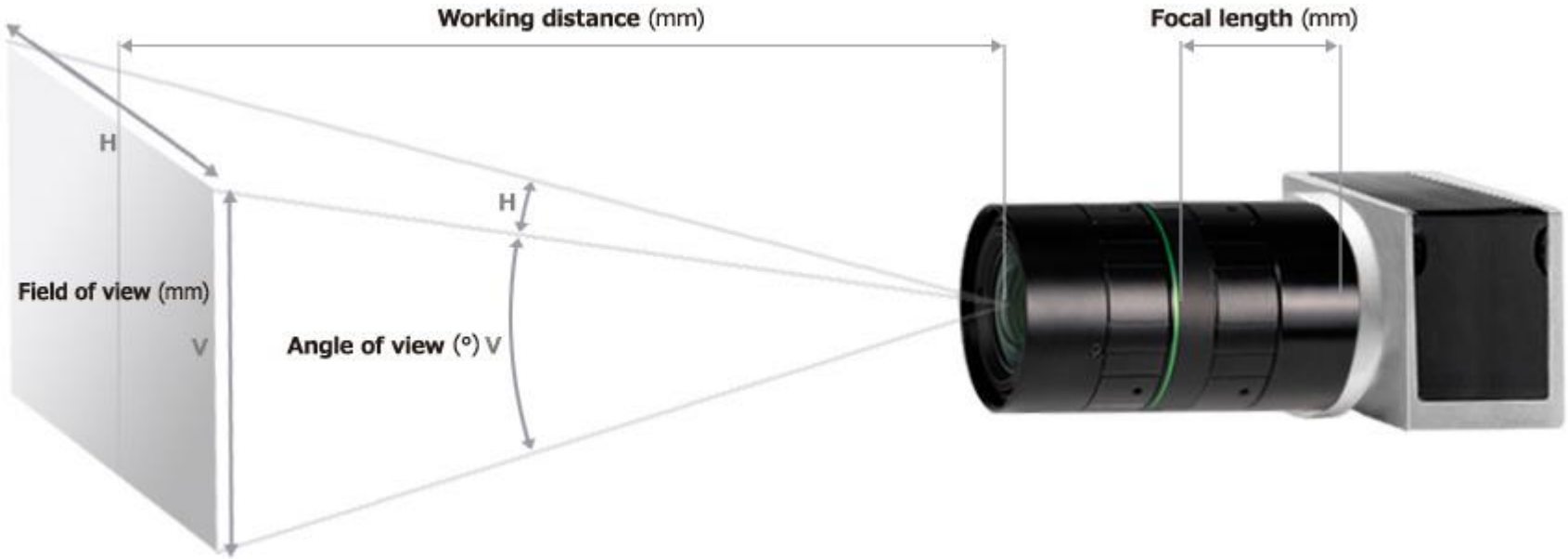
Lens Selector - FUJINON

Link: https://optics.fujifilm.com/mvlens/en/selector/

Info for spec in LENS

1. Camera sensor size
2. Focal length
3. Working distance from lens to object
4. FOV

Note: **Only suitable for fixed focal length lens**



Lens Selector - FUJINON

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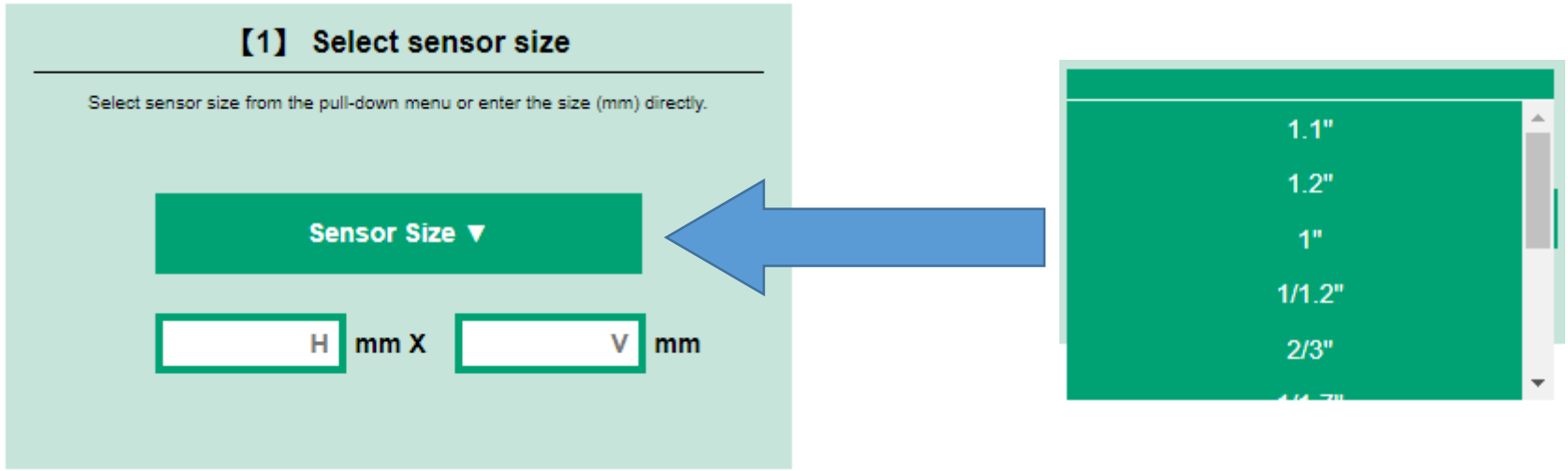
Step 1 Click the “Sensor Size” button to get different sensor size



Lens Selector - FUJINON

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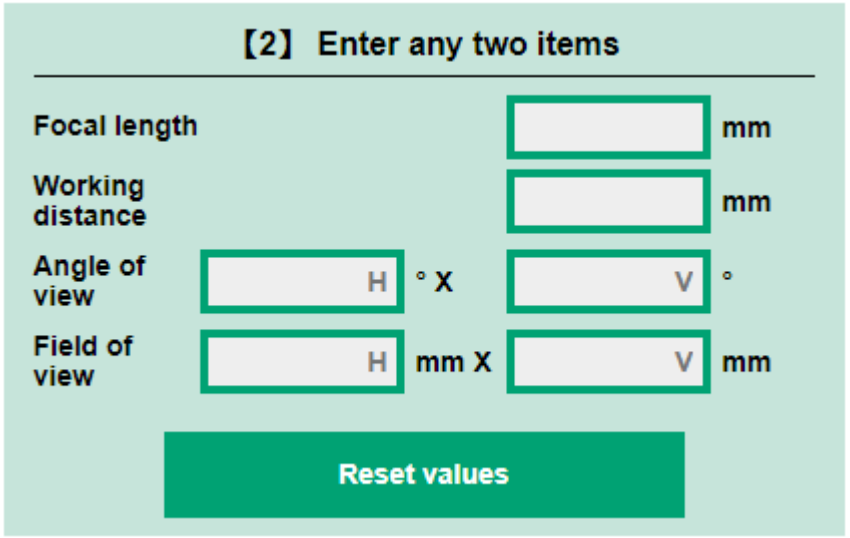
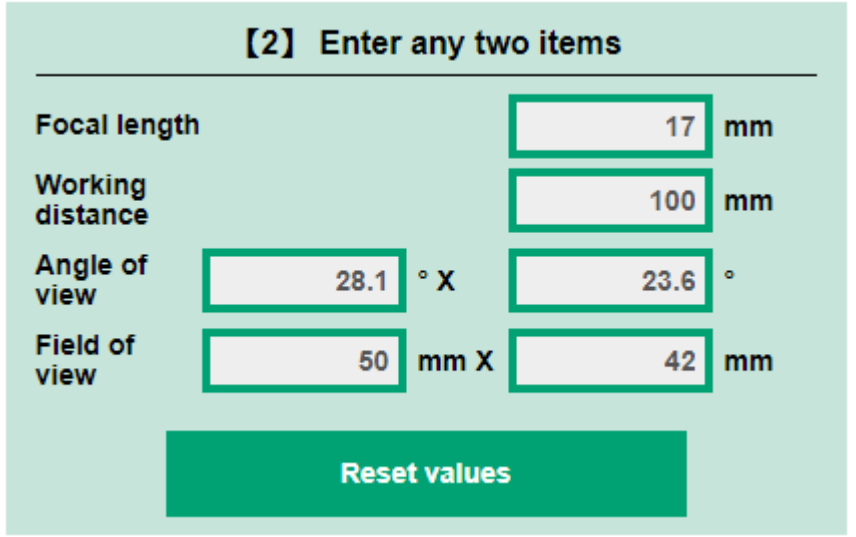
Step 2 Enter any 2 info that you get it from your customer





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Result

You will get the suitable lens through the result table

	Product name	Sensor size (max.)	Sensor size (standard)	Focal Length (mm)	Iris Range (F no)	Dimension(mm)
	**CF16ZA-1S**		1.1"(2.5μm)	16	F1.8-F16	Ø39x67.6
	**HF1618-12M**	1/1.2"(4.5μm)	2/3"(2.1μm)	16	F1.8-F22	Ø33x52.5
	**HF16XA-5M**	1/1.2"(4.5μm)	2/3"(3.45μm)	16	F1.6-F16	Ø29.5×46.0
	**HF16XA-1F**	1/1.2"(4.5μm)	2/3"(3.45μm)	16	F1.6-F16	Ø29.5×46.0
	**HF16SA-1**	2/3"(3.45μm)		16	F1.4-F22	Ø51×70.5
	**HF16HA-1S**	2/3"(6.2μm)		16	F1.4-F16	Ø29.5×29.5
	**CF16HA-1**	1"(9.1μm)		16	F1.4-F22	Ø51×70.5

Lens Selector – Opto Engineering

Link: https://www.opto-e.com/en/resources/tools/imaging-lens-selector

Info for spec in LENS

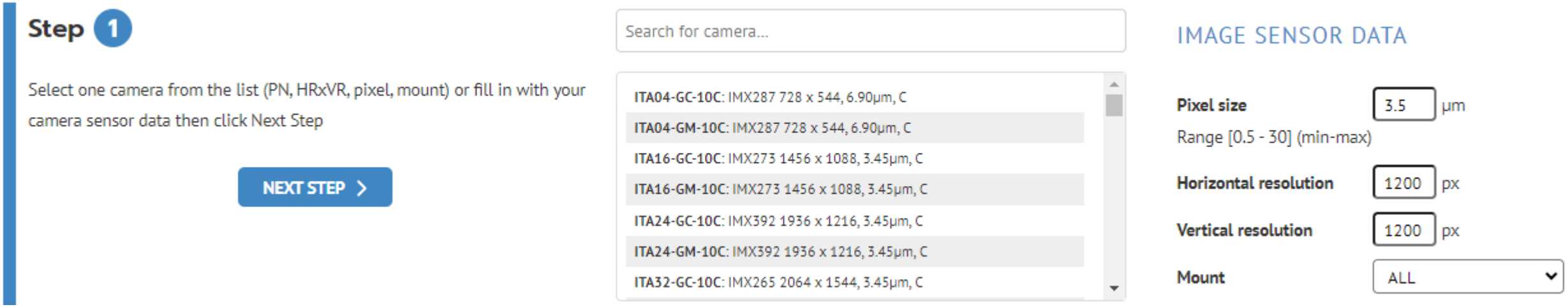
1. Camera Pixel Size
2. Camera Horizontal Resolution
3. Camera Vertical Resolution
4. Camera Mount
5. Type of FOV (Rectangular / Circular)
6. FOV [(W x H)] or Diameter]
7. Type of Lens (Telecentric / Fixed Focal / Macro)
8. Working Distance
9. Magnification

Lens Selector – Opto Engineering

Link: https://www.opto-e.com/en/resources/tools/imaging-lens-selector

Step 1

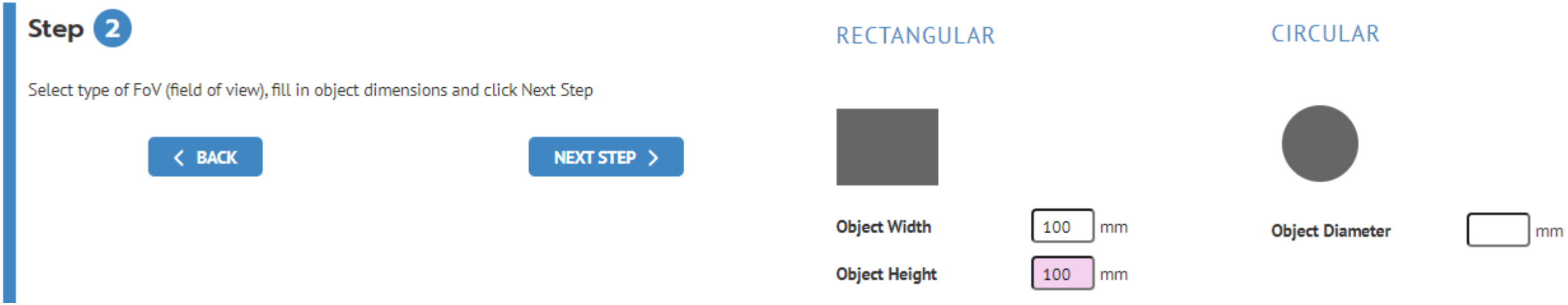
Select the OE camera model or fill in the info that you get from your customer and click “NEXT STEP” button



Lens Selector – Opto Engineering

Link: https://www.opto-e.com/en/resources/tools/imaging-lens-selector

Step 2 Select the type of FOV and fill in the FOV.
Click “NEXT STEP” button to step 3



Lens Selector – Opto Engineering

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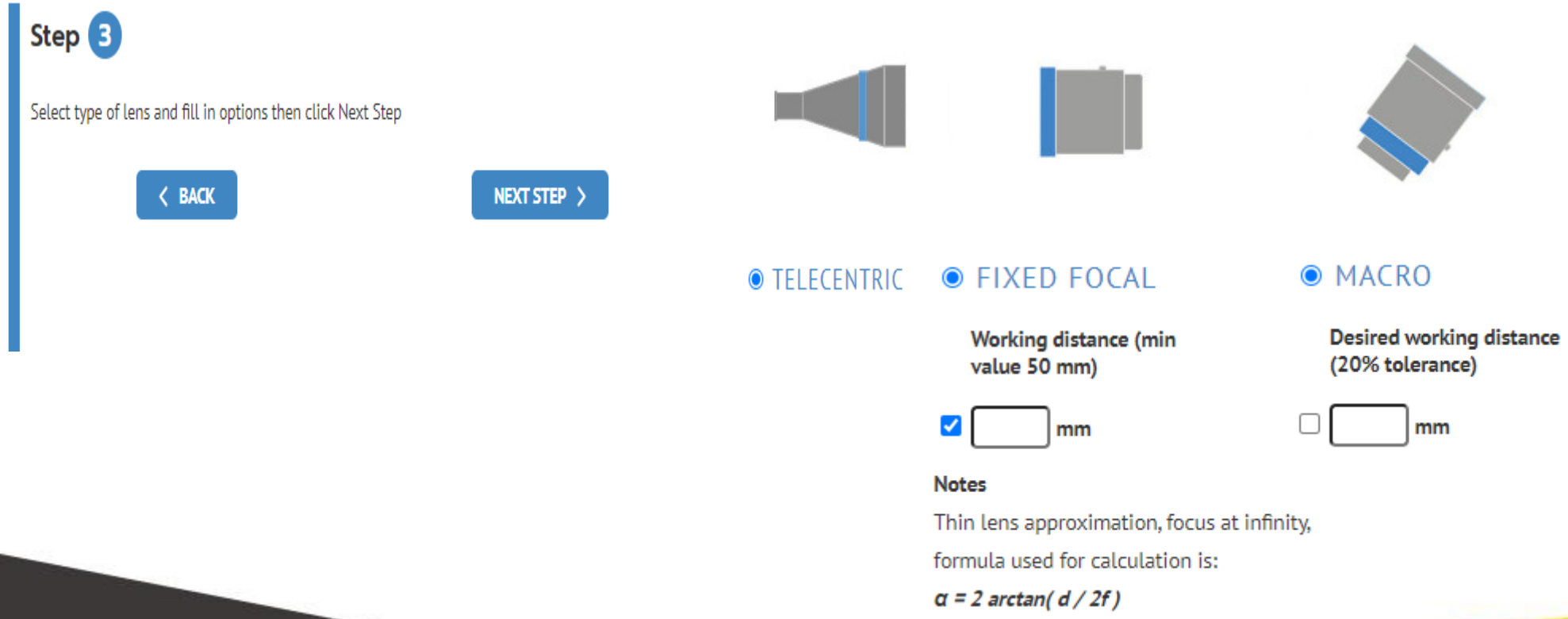
Step 3

Select the type of LENS and click “NEXT STEP” button.
Note: Fixed focal and Macro lens need to fill in the working distance



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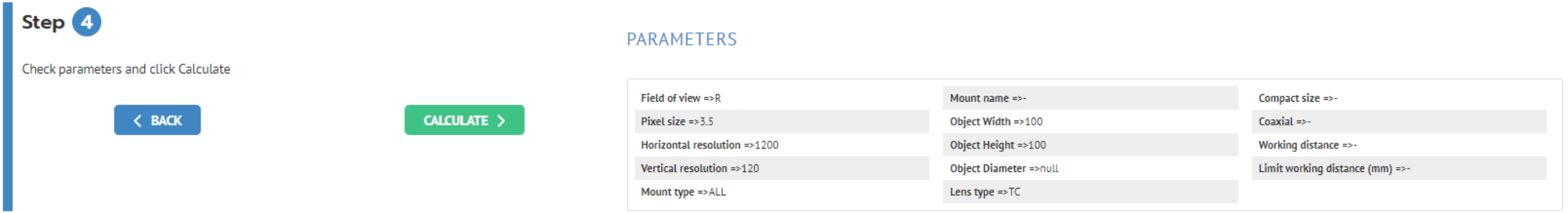
Link: https://www.opto-e.com/en/resources/tools/imaging-lens-selector

Step 4 You may double check the info that you fill in and click the “CALCULATE” button to get the result



Lens Selector – Opto Engineering

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Result You will get suitable lens through the result table

Search results: 4

Partnumber	Magnification	Image circle ø Ø (mm)	Working distance (mm)	Focal length (mm)	Mount	FOV preview
TC12192	0.033	8.0	526.9	-	C	
TC13120	0.038	6.0	334.5	-	C	
TC13144	0.033	6.0	396.0	-	C	
TC23240	0.037	11.0	492.8	-	C	

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THANK YOU

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