



Commonlands.com

Optics for Cameras



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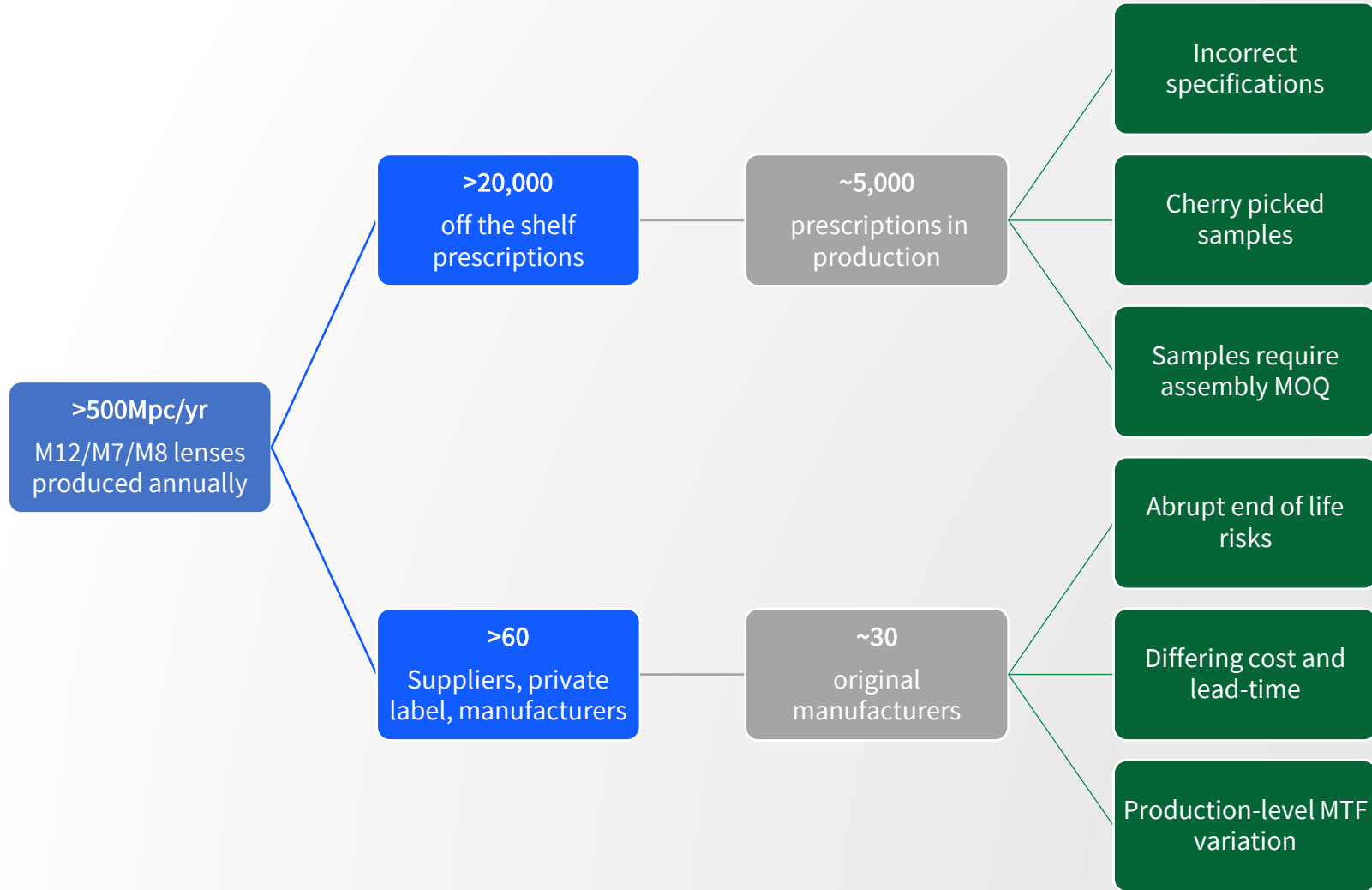
San Diego, CA 92117

Commonlands: A “Tier 1.5” Value Add Lens Supplier

- About us
 - A proven business model in the optics industry
 - Our ability to selectively manufacture in North America
 - Our rapid growth as a sustainable bootstrapped company
- Our value from design through production
 - Engineering + sourcing
 - Supply chain
 - Quality control



The lens industry has grown rapidly since 2010, making it difficult to quickly navigate to a solution in volumes <100kpcs/yr.



We use a private label “Tier 1.5” model to solve common problems for projects requiring batch-based production $\sim \leq 250,000$ pcs/yr.

Engineering + Sourcing

- 100% Verified Specifications
- Western Engineering Support
- Customizations



Global Supply Chain

- Demand Aggregation
- Just-in-Time Delivery
- Next Day Samples



Quality Control

- Reduced DPPM
- Better unit-to-unit performance
- Continuous Improvement

Our lenses and support are trusted by startups and Fortune 10s world-wide. The primary applications are robotics, surveillance, and industrial vision.

THE WALL STREET JOURNAL.

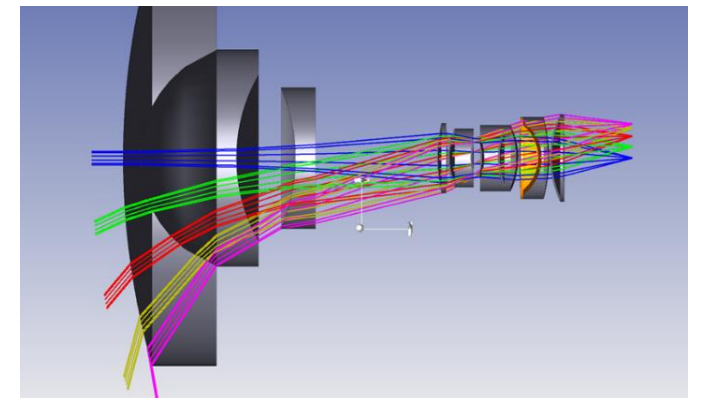
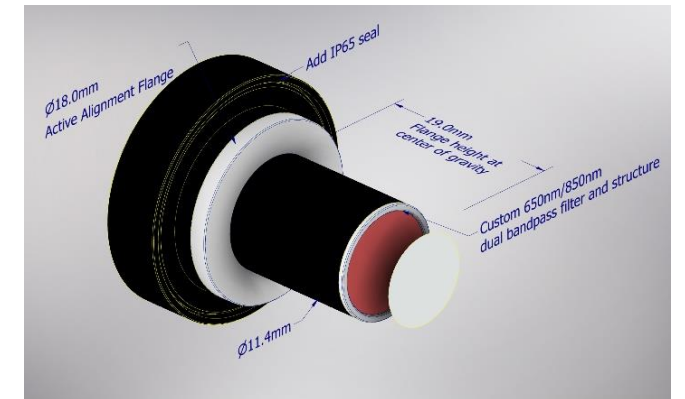
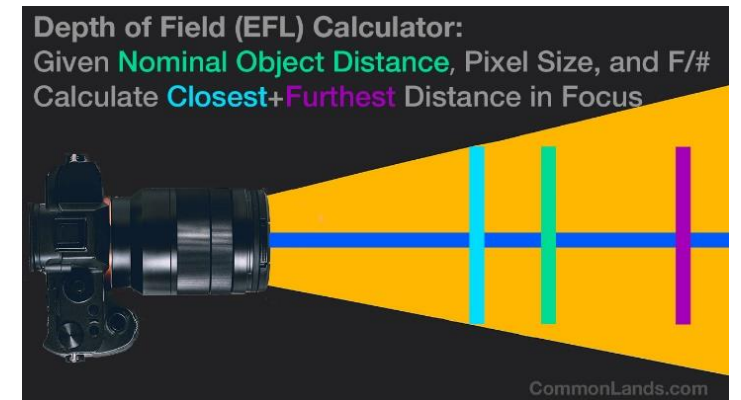
market research firm Interact Analysis. Amazon's new system, for example, makes sense for its robotic arms because such robots have an easier time identifying objects inside of bins than shelves, which have been a part of previous Amazon systems.



Our Engineering + Sourcing reduces time to market.

We help engineering teams navigate the world of imaging optics from start to finish.

- Basic Optics
 - Free lens and camera calculators
 - Review of lens and sensor trade-offs
- Intermediate Optics
 - Camera and optics blog articles about CRA, distortion, etc..
 - Customization feasibility and tradeoffs
- Advanced Optics
 - Review production-level design for manufacture risks
 - Customized Zemax charts based on project requirements



Our webstore enables modern teams who want high quality verified products.

- >90 optical prescriptions each with a dedicated product page.
- >200 product variants (filters, IP-rating) each with verified .STP files and drawings based on accurate as-built/measured values.
- >20,000 units in stock in California with next-day delivery across the US and 3-4 days world-wide.

The screenshot displays the Commonlands Optics website interface. The main product page features a large image of a lens, a title "Wide-Angle 4.4mm M12 Lens", and a price of \$49.00. Below the main image is a smaller image gallery and a detailed "Optical and Mechanical Specification Table".

Lens Parameter	Performance Detail
Part Number	CIL343
Format Type	1/2"
EFL	2.2mm
F#	2.2 Fixed
Resolution	88P+
Field of View	110° @ 4.4mm Click here for our award-winning M12 Lens Calculator
Image Circle	8.2mm
Distortion	<4% TV See mechanical drawing for Optical, Flare, and IAR TV distortion.
Weight	0.1g
IR Cut-Off Filter	IR Web: CIL343-F2.3-M12A650 IR Filter: CIL343-F2.3-M12ANIR
Construction	Hybrid Glass/Plastic, with Al ₂ O ₃ Barrel

Below the table is a "Mechanical Layout" diagram showing the lens dimensions and a "Camera Mechanical Compatibility Table*".

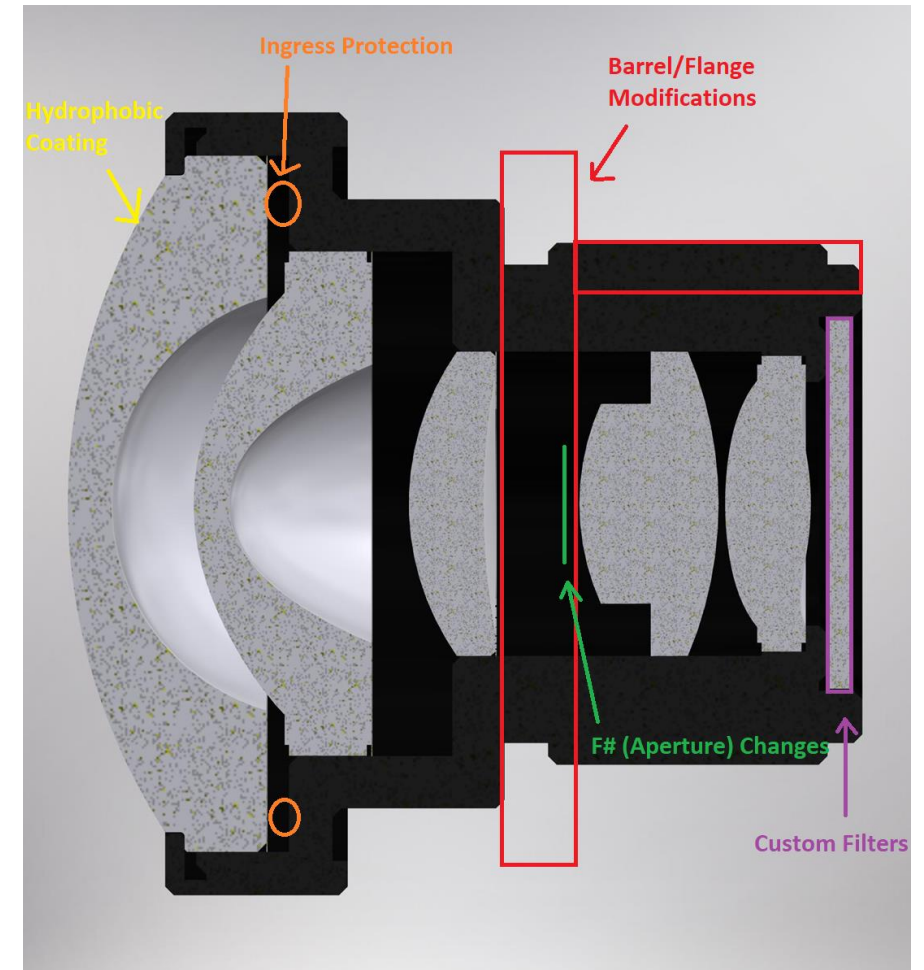
Camera/Mount	Compatibility
Commonlands Compatible Mount	CLASSE
E-con Systems Standard S-Mount	Yes
Allied Vision Systems S-Mount	Yes
FLIR Blackfly S Board	No
IDS Jetson LE	No
The Imaging Source M12	No
Bader Optic S-Mount	No

The shopping cart on the right shows two items: "CIL343-F2.3-M12A650" for \$49.00 and "CIL340-F2.0-M12A650" for \$79.00. The subtotal is \$128.00. Shipping options include "Free USPS Shipping" (selected), "Ship on Your UPS/FedEx Acct #", "FedEx 2Day*", and "FedEx Priority Overnight*". The total amount is \$128.00 USD.

We offer lens customizations and custom optical designs.

Customization *	Availability
Pre-thread with lens holder	All Lenses
Custom filters	All Lenses
F#	All Lenses
AL6061 Barrel / Cap Adjustments	All Lenses
Hydrophobic coating	All Lenses
Ingress Protection	>95% of Lenses
Active Lens Element 1 Heating	<10% of Lenses
Active Barrel Heating	<10% of Lenses
Defog Coating on Lens Element 1	<10% of Lenses
Full Custom Optical Prescriptions	N/A

Disclaimer: MoQs, NREs, and lead-times apply. Feasibility, and all information above, is not guaranteed until approved in writing by Commonlands' teams via formal quotation.



Our Quality Control reduces headaches/cost at your IQC.

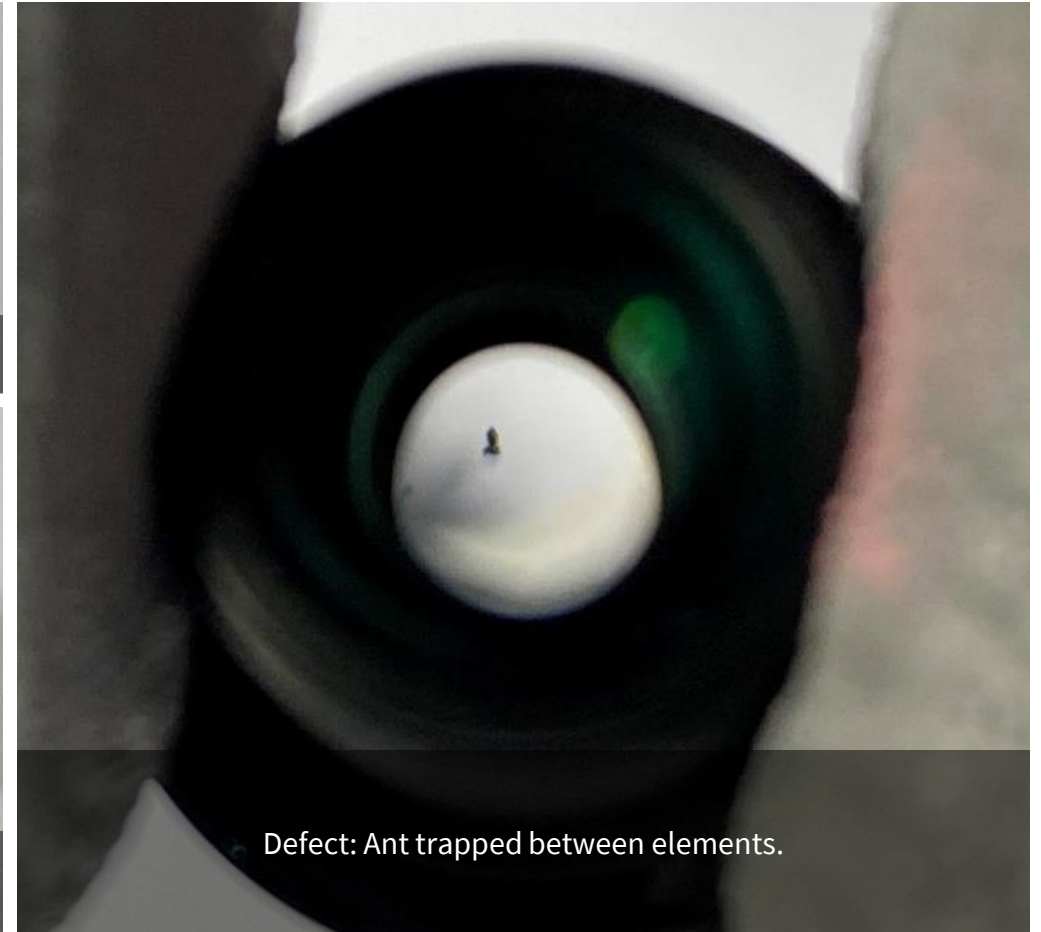
We perform 100% inspection in our Class 100~1000 cleanroom in California

Our equipment includes:

- MTF Machines x2
- Lens parameter (EFL, F#) test machine
- Ingress protection (air leak) test machine
- Semi-automated lens-to-holder assembly machine
- Semi-automated filter glue machine
- Customized operating temperature test machine
- Linear wear (scratch) tester
- Stray light testing x2
- Holder torque test machine
- Standard mechanical inspection tools(calipers, etc..)
- Image quality test set up x2
- Coming soon:
 - Vibration table
 - UV exposure machine
 - Salt Spray test machine
 - +1 MTF machine
 - Automated assembly equipment



Our 100% inspection catches stray defects and allows you to directly accept lenses into your production line.



We provide unit-level MTF traceability for low to mid volume projects (<10kpc/yr) where this data can be hard to come by.

MTF test data stored during our incoming quality control process

100% Functional Testing @~5s-7s/unit



Data correlation maintained throughout assembly

Lens Holder Pre-Threaded @250pcs/hr



Retrieve via QR + Human Readable



Commonlands is an emerging optics supplier using a Tier 1.5 Private Label business model to bring automated optics manufacturing to North America.



Engineering + Sourcing

- 100% Verified Specifications
- Western Engineering Support
- Customizations

Our Benefits to Tier 1s and OEMs

Global Supply Chain

- Demand Aggregation
- Just-in-Time Delivery
- Next Day Samples

Quality Control

- Reduced DPPM
- Continuous Supplier Improvement