

Ultra Compact Machine Vision Solution



Stock #26-089 [CONTACT US](#)

[-](#) 1 [+](#) **\$2,009⁰⁰**

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Volume Pricing

Qty 1+	\$2,009.00 each
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Product Downloads

General

Note:
All electrical parts in kit are CE certified

Contents of Kit:
See Technical Information Tab

Regulatory Compliance

Certificate of Conformance:
[View](#)

Need different specs or modifications?

Edmund Optics offers comprehensive custom manufacturing services for optical and imaging components tailored to your specific application requirements. Whether in the prototyping phase or preparing for full-scale production, we provide flexible solutions to meet your needs. Our experienced engineers are here to assist—from concept to completion.

Our capabilities include:

- Custom dimensions, materials, coatings, and more
- High-precision surface quality and flatness
- Tight tolerances and complex geometries
- Scalable production—from prototype to volume

Learn more about our [custom manufacturing capabilities](#) or submit an inquiry [here](#).

Product Details

- Kit Includes Camera, Imaging Lens, Light, and Accessories
- High Resolution and Exceptional Image Quality
- Ideal for OCR and Matte Object Inspection Applications

Ultra-Compact Machine Vision Solutions are kits designed for ease of assembly and integration into machine vision applications and systems in a small 80.5 x 75mm (3.17 x 2.95") form factor. The included TECHSPEC® Ultra Compact Fixed Focal Length Lens provides high resolution and exceptional image quality from a working distance of 200mm out to infinity, allowing for versatile spatial positioning. Paired with the included Allied Vision Avium 1800 U-500m USB 3.1 Camera and an included Advanced Illumination High Intensity Ring Light, this solution features 2.2µm backside illuminated pixels and light intensity of 37W/m² at 100mm to provide a high Nyquist of approximately 227lp/mm. Ultra-Compact Machine Vision Solutions are ideal for a wide range of machine vision and factory automation applications such as optical character recognition (OCR) and matte metallic object finish inspection. Additionally, this all-in-one hardware solution is offered at a reduced price and can be utilized outside of an industrial environment and serve as an affordable machine vision system option for labs and universities.

NOTE: This solution features an Allied Vision Camera which is controlled using Allied Vision's VIMBA software that can be found and downloaded [here](#). Additional optional optomechanics for mounting can be found [here](#).

Technical Information

ULTRA-COMPACT MACHINE VISION SOLUTION KIT CONTENTS		
QTY	Stock No.	Description
1	#33-304	16mm UC Series Fixed Focal Length Lens
1	#14-130	Allied Vision Avium 1800 U-500m, 1/2.5" 5.0MP C-Mount, Right Angle USB 3.1 Monochrome Camera
1	#88-484	2.95" White Advanced Illumination High Intensity Ring Light
1	#88-494	M35.5 x 0.5 to M25.5 x 0.5 Adapter
1	#66-855 or #33-773 (KR)	24V Power Supply with Tinned Leads
1	#14-156	M6 and 1/4-20 Mounting Plate for Avium
1	#34-212	USB 3.0 Micro-B to Type-A Locking Cable, 8m