



# AVF-35 Camera Design Kit for the Foveon F13 Image Sensor

A Foveon Certified Value Added Reseller

## Product Information

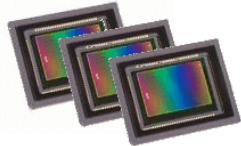
The AVF-35 Camera Design Kit includes all hardware, software and documentation required to design a camera using the Foveon F13 Direct Image sensor.

The AVF-35 Camera Design Kit supports designs based on the Foveon reference design included with the kit or completely new designs incorporating your own best practices.

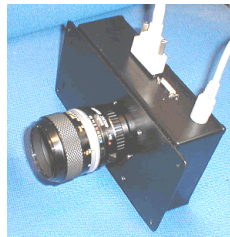


### The AVF-35 CDK Includes:

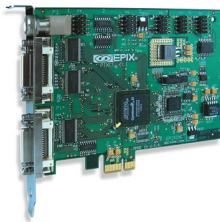
**Three sensors from Foveon**



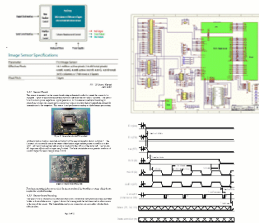
**A camera design platform from Fomos**



**A framegrabber and software from EPIX**



**A comprehensive set of documentation From AVC, Foveon and Fomos**



**A clamshell socket from ENPLAS**



and

**Six months of e-mail support from AVC**



This development platform was specifically designed to support the Foveon F13 sensor. The sensor board includes a clamshell socket, a three-channel digitizer, a CameraLink medium interface and FPGA-based data handling, waveform generation and sensor control. The case includes a removable infrared cut filter, a Nikon F mount and full access to the back of the sensor board for measurement and sensor cooling.

The EPIX PIXCI EL1 framegrabber was selected for easy installation and operation. It occupies one PCI Express x1 slot and provides a CameraLink interface matched to the development platform. The software supporting the framegrabber is EPIX XCAP Standard, which includes functions providing direct read and write of the sensor control registers.

The documentation kit includes a full set of schematics for the original Foveon camera implementation and the Foveon image processing source code. The set of design manuals developed by AVC with Foveon and Fomos provides comprehensive instructions on developing new cameras for designers preferring to preserve compatibility with their other designs.

Trouble shooting of new designs can be facilitated by the easy exchange of sensors if this socket is incorporated into the sensor board layout.

As new designs progress, AVC, backed by Foveon, provides support in sensor operation, image processing, optical interfacing and selection of the correct register settings for each special application.

Alternative Vision is the only organization trained by Foveon to assist in the development of cameras for Foveon X3<sup>®</sup> Direct Image Sensors and supported by the Foveon technical staff to facilitate rapid design of cameras with maximized performance.



Terms and Conditions of Sale

**Contents of the AVF-35 Kit**

The AVF-35 Camera Design Kit (CDK) consists of the following items:

1. Three (3) Foveon X3 F13 Direct Image Sensors individually packaged. These are grade 1 devices with AR/AR windows.
2. The Fomos DevCam1 for the Foveon F13 sensor with cables and power supply.
3. An EPIX PIXCI EL1 framegrabber with XCAP Standard software.
4. A documentation package on CD-ROM.
5. A clamshell socket for the F13.
6. E-mail support for 6 months from the date of delivery of the CDK.

**Ordering Information**

Please request a quotation for AVC part number 8300-0001-01-00. Offers to sell are made only by quotation.

Typical leadtime for the AVF-35 CDK is 4 weeks after receipt of payment. Actual delivery dates will be provided at the receipt of prepayment.

**Standard Terms**

AVC Standard Terms and Conditions of Sale apply to purchases of this kit. Terms are subject to change without notice. This merchandise is not returnable and any amounts paid are not refundable. All goods shipped internationally will be documented in accordance with applicable US export regulations.

**Framegrabber Installation**

Installation of framegrabbers and software should only be attempted by persons familiar with the setup and use of such hardware. AVC can provide information on minimum computer requirements but does not guarantee operation of the board with any specific computer.

**Purchasing the AVF-35 Camera design kit requires execution of a non-disclosure agreement covering confidential documents supplied by Foveon, Inc.**

**For further information:**

Alternative Vision Corporation  
 Suite 121-263  
 5575 E. River Road  
 Tucson, AZ 85750  
 United States of America  
 Phone: +1-520-615-4073  
 Fax: +1-650-844-6332  
 E-mail: [sales@alt-vision.com](mailto:sales@alt-vision.com)  
 Web: [www.alt-vision.com](http://www.alt-vision.com)

**Camera Designs**

AVC does not guarantee that the AVF-35 CDK is sufficient to assure that any customer can execute a successful camera design. Potential customers are encouraged to thoroughly study the sensor documentation and if they so choose, to acquire an existing product using the F13 image sensor to improve familiarity with its characteristics and limitations.

Camera design with the AVF-35 CDK should be attempted only by experienced camera designers. CMOS sensors are complex to operate and the F13 is a particularly complex example.

Assistance in circuit design is not included in the support package. Should this be required, AVC can arrange contact with a qualified camera designer.

**Sensor Replacement**

All sensors are tested for proper operation before shipment. Non-operating or incorrectly operating sensors will not be replaced unless AVC determines that any failure was due to a manufacturing defect.

**Sensor Purchase Credit**

For customers in good standing, AVC will deduct five percent (5%) from the net sensor invoice price for Foveon F13 image sensor purchases from AVC during the first two years after the delivery date of the AVF-35 CDK up to a total discount equal to fifty percent (50%) of the original AVF-35 net invoice price.

**Additional Charges**

The price for the AVF-35 CDK does not include taxes, duty, freight, insurance, brokerage fees or any other charges imposed by third parties. All such amounts are the responsibility of the purchaser.

**Local Representative:**