

**KLT-T3MPF-AR0144 V1.0**

On Semiconductor Aptina AR0144CS MIPI и DVP параллельный Интерфейс  
Фиксированный фокус 1MP Модуль камеры



№ модуля камеры	<b>KLT-T3MPF-AR0144 V1.0</b>
Датчик изображений	AR0144
EFL	3.29 mm
F.NO	2.8
Пиксель	1280 x 800
Угол обзора	68.7°(D) 58.1°(H) 45°(V)
Тип линзы	1/4 дюйм
Размеры линз	8.50 x 9.00 x 4.90 mm
Размер модуля	24.00 x 9.00 mm
Тип модуля	Фиксированный фокус
Интерфейс	MIPI и DVP параллельный

Ответный соединитель Деталь No. **DF30FC-30DS-0.4V**



Ответный разъем на основной плате. Продано отдельно.

## Product Overview

### AR0144CS: CMOS Image Sensor, Digital, Global Shutter, 1.0 MP, 1/4-Inch

For complete documentation, see the data sheet.

The AR0144 is a 1/4-inch 1.0 Mp CMOS digital image sensor with an active-pixel array of 1280H x 800V. It incorporates a new innovative global shutter pixel design optimized for accurate and fast capture of moving scenes. The sensor produces clear, low noise images in both low-light and bright scenes. It includes sophisticated camera functions such as auto exposure control, windowing, row skip mode, column-skip mode, pixel-binning and both video and single frame modes. It is programmable through a simple two-wire serial interface. The AR0144 produces extraordinarily clear, sharp digital pictures, and its ability to capture both continuous video and single frames makes it the perfect choice for a wide range of applications, including scanning and industrial inspection.

#### Features

- Best Global Shutter Efficiency
- Low Dark Current/Hot Pixels
- High Linear Full Well
- Low Operational Power
- Small Form Factor

#### Applications

- Barcode Scanning
- 3D Scanning
- Virtual/Augmented Reality
- Positional Tracking
- Gesture Recognition

#### Benefits

- Improved image quality for fast moving objects
- Total Noise Floor Reduction, SNR Improvement
- High Dynamic Range
- Ideal for battery powered applications
- Ideal for space constrained applications like Handheld Scanners

#### End Products

- Barcode Scanners
- Head Mounted Displays
- Biometric Scanners
- Virtual Reality/Augmented Reality Glasses
- Drones

## Part Electrical Specifications

Product	Pricing (\$/Unit)	Compliance	Status	Type	Megapixels	Frame Rate (fps)	Optical Format	Shutter Type	Pixel Size (µm)	Output Interface	Color	Package Type
AR0144CSSC00SUD20		Pb-free Halide free	Active	CMOS	1MP	60	1/4 Inch	Global Shutter	3.0 x 3.0	Multi	RGB	
AR0144CSSC00SUKA0-CPBR		Pb-free Halide free	Active	CMOS	1MP	60	1/4 Inch	Global Shutter	3.0 x 3.0	Multi	RGB	ODCSP-69
AR0144CSSC00SUKA0-CPBR1		Pb-free Halide free	Active									ODCSP-69
AR0144CSSC00SUKA0-CPBR2		Pb-free Halide free	Active									ODCSP-69
AR0144CSSC00SUKA0-CRBR		Pb-free Halide free	Active	CMOS	1MP	60	1/4 Inch	Global Shutter	3.0 x 3.0	Multi	RGB	ODCSP-69
AR0144CSSC00SUKA0-CRBR1		Pb-free Halide free	Active									ODCSP-69
AR0144CSSC20SUD20		Pb-free Halide free	Active	CMOS	1MP	60	1/4 Inch	Global Shutter	3.0 x 3.0	Multi	RGB	
AR0144CSSC20SUKA0-CPBR		Pb-free Halide free	Active	CMOS	1MP	60	1/4 Inch	Global Shutter	3.0 x 3.0	Multi	RGB	ODCSP-69
AR0144CSSC20SUKA0-CRBR		Pb-free Halide free	Active	CMOS	1MP	60	1/4 Inch	Global Shutter	3.0 x 3.0	Multi	RGB	ODCSP-69
AR0144CSSM00SUD20		Pb-free Halide free	Active	CMOS	1MP	60	1/4 Inch	Global Shutter	3.0 x 3.0	Multi	Mono	
AR0144CSSM00SUKA0-CPBR		Pb-free Halide free	Active	CMOS	1MP	60	1/4 Inch	Global Shutter	3.0 x 3.0	Multi	Mono	ODCSP-69
AR0144CSSM00SUKA0-CPBR1		Pb-free Halide free	Active									ODCSP-69
AR0144CSSM00SUKA0-CPBR2		Pb-free Halide free	Active									ODCSP-69
AR0144CSSM00SUKA0-CRBR		Pb-free Halide free	Active	CMOS	1MP	60	1/4 Inch	Global Shutter	3.0 x 3.0	Multi	Mono	ODCSP-69
AR0144CSSM20SUD20		Pb-free Halide free	Active	CMOS	1MP	60	1/4 Inch	Global Shutter	3.0 x 3.0	Multi	Mono	
AR0144CSSM20SUKA0-CPBR		Pb-free Halide free	Active	CMOS	1MP	60	1/4 Inch	Global Shutter	3.0 x 3.0	Multi	Mono	ODCSP-69
AR0144CSSM20SUKA0-CPBR1		Pb-free Halide free	Active	CMOS	1MP	60	1/4 Inch	Global Shutter	3.0 x 3.0	Multi	Mono	ODCSP-69
AR0144CSSM20SUKA0-CRBR		Pb-free Halide free	Active	CMOS	1MP	60	1/4 Inch	Global Shutter	3.0 x 3.0	Multi	Mono	ODCSP-69
AR0144CSSM20SUKA0-CRBR1		Pb-free Halide free	Active	CMOS	1MP	60	1/4 inch	Global Shutter	3.0 x 3.0	Multi	Mono	ODCSP-69
AR0144CSSM28SUD20		Pb-free Halide free	Active	CMOS	1MP	60	1/4 Inch	Global Shutter	3.0 x 3.0	Multi	Mono	
AR0144CSSM28SUKA0-CPBR		Pb-free Halide free	Product P review									ODCSP-69

For more information please contact your local sales support at [www.onsemi.com](http://www.onsemi.com).

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