

AR0144CS

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

Product Overview

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
AR0144CSSC00 SUD20		Pb H	Active	CMOS	1	60	1/4 Inch	Global Shutter	3.0 x 3.0	Multi	RGB	
AR0144CSSC00 SUKA0-CPBR		Pb H	Active	CMOS		60	1/4 Inch	Global Shutter	3.0 x 3.0	Multi	RGB	ODCSP-69
AR0144CSSC00 SUKA0-CPBR1		Pb H	Active									ODCSP-69
AR0144CSSC00 SUKA0-CPBR2		Pb H	Active									ODCSP-69
AR0144CSSC00 SUKA0-CRBR		Pb H	Active	CMOS		60	1/4 Inch	Global Shutter	3.0 x 3.0	Multi	RGB	ODCSP-69
AR0144CSSC00 SUKA0-CRBR1		Pb H	Active									ODCSP-69
AR0144CSSC20 SUD20		Pb H	Active	CMOS		60	1/4 Inch	Global Shutter	3.0 x 3.0	Multi	RGB	
AR0144CSSC20 SUKA0-CPBR		Pb H	Active	CMOS		60	1/4 Inch	Global Shutter	3.0 x 3.0	Multi	RGB	ODCSP-69
AR0144CSSC20 SUKA0-CPBR1		Pb H	Active									ODCSP-69
AR0144CSSC20 SUKA0-CRBR		Pb H	Active	CMOS		60	1/4 Inch	Global Shutter	3.0 x 3.0	Multi	RGB	ODCSP-69
AR0144CSSM00 SUD20		Pb H	Active	CMOS		60	1/4 Inch	Global Shutter	3.0 x 3.0	Multi	Mono	
AR0144CSSM00 SUKA0-CPBR		Pb H	Active	CMOS		60	1/4 Inch	Global Shutter	3.0 x 3.0	Multi	Mono	ODCSP-69
AR0144CSSM00 SUKA0-CPBR1		Pb H	Active									ODCSP-69
AR0144CSSM00 SUKA0-CPBR2		Pb H	Active									ODCSP-69
AR0144CSSM00 SUKA0-CRBR		Pb H	Active	CMOS		60	1/4 Inch	Global Shutter	3.0 x 3.0	Multi	Mono	ODCSP-69
AR0144CSSM20 SUD20		Pb H	Active	CMOS		60	1/4 Inch	Global Shutter	3.0 x 3.0	Multi	Mono	
AR0144CSSM20 SUKA0-CPBR		Pb H	Active	CMOS		60	1/4 Inch	Global Shutter	3.0 x 3.0	Multi	Mono	ODCSP-69
AR0144CSSM20 SUKA0-CPBR1		Pb H	Active	CMOS		60	1/4 Inch	Global Shutter	3.0 x 3.0	Multi	Mono	ODCSP-69
AR0144CSSM20 SUKA0-CRBR		Pb H	Active	CMOS		60	1/4 Inch	Global Shutter	3.0 x 3.0	Multi	Mono	ODCSP-69
AR0144CSSM20 SUKA0-CRBR1		Pb H	Active	CMOS		60	1/4 inch	Global Shutter	3.0 x 3.0	Multi	Mono	ODCSP-69
AR0144CSSM28 SUD20		Pb H	Active	CMOS		60	1/4 Inch	Global Shutter	3.0 x 3.0	Multi	Mono	
AR0144CSSM28 SUKA0-CPBR		Pb H	Active									ODCSP-69