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

End Products

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

Part Electrical Specifications

Product	Status	Compilance	Type	Megapixels	Frame Rate (fps)	Optical Format	Shutter Type	Pixel Size (µm)	Output Interface	Color	Family	Package Type	Case Outline	MSL Type	MSL Temp (°C)	Container Type	Container Qty.
AR0144CSSC00SUD20	Obsolete		CMOS	-	60	1/4 Inch	Global Shutter	3.0 x 3.0	Multi	RGB	-	-		NA	0	MTFRM	1
AR0144CSSC00SUKA0-CPBR	Active		CMOS	1	60	1/4 Inch	Global Shutter	3.0 x 3.0	Multi	RGB	-	ODCSP-69	570BV.PDF	4	245	CTRAY	3000
AR0144CSSC00SUKA0-CRBR	Obsolete		CMOS	1	60	1/4 Inch	Global Shutter	3.0 x 3.0	Multi	RGB	-	ODCSP-69	570BV.PDF	4	245	CTRAY	3000
AR0144CSSC20SUD20	Active		CMOS	1	60	1/4 Inch	Global Shutter	3.0 x 3.0	Multi	RGB	-	-		NA	0	MTFRM	1
AR0144CSSC20SUKA0-CPBR	Active		CMOS	1	60	1/4 Inch	Global Shutter	3.0 x 3.0	Multi	RGB	-	ODCSP-69	570BV.PDF	4	245	CTRAY	3000
AR0144CSSC20SUKA0-CRBR	Active		CMOS	1	60	1/4 Inch	Global Shutter	3.0 x 3.0	Multi	RGB	-	ODCSP-69	570BV.PDF	4	245	CTRAY	3000
AR0144CSSM00SUD20	Obsolete		CMOS	-	60	1/4 Inch	Global Shutter	3.0 x 3.0	Multi	Mono	-	-		NA	0	MTFRM	1
AR0144CSSM00SUKA0-CPBR	Active		CMOS	1	60	1/4 Inch	Global Shutter	3.0 x 3.0	Multi	Mono	-	ODCSP-69	570BV.PDF	4	245	CTRAY	3000
AR0144CSSM00SUKA0-CRBR	Active		CMOS	1	60	1/4 Inch	Global Shutter	3.0 x 3.0	Multi	Mono	-	ODCSP-69	570BV.PDF	4	245	CTRAY	3000
AR0144CSSM20SUD20	Last Shipments		CMOS	-	60	1/4 Inch	Global Shutter	3.0 x 3.0	Multi	Mono	-	-		NA	0	MTFRM	1
AR0144CSSM20SUKA0-CPBR	Active		CMOS	1	60	1/4 Inch	Global Shutter	3.0 x 3.0	Multi	Mono	-	ODCSP-69	570BV.PDF	4	245	CTRAY	3000
AR0144CSSM20SUKA0-CPBR1	Last Shipments		CMOS	-	60	1/4 Inch	Global Shutter	3.0 x 3.0	Multi	Mono	-	ODCSP-69	570BV.PDF	4	245	CTRAY	300
AR0144CSSM20SUKA0-CRBR	Active		CMOS	1	60	1/4 Inch	Global Shutter	3.0 x 3.0	Multi	Mono	-	ODCSP-69	570BV.PDF	4	245	CTRAY	3000
AR0144CSSM20SUKA0-CRBR1	Obsolete		CMOS	-	60	1/4 inch	Global Shutter	3.0 x 3.0	Multi	Mono	-	ODCSP-69	570BV.PDF	4	245	CTRAY	300
AR0144CSSM28SUD20	Active		CMOS	1	60	1/4 Inch	Global Shutter	3.0 x 3.0	Multi	Mono	-	-		NA	0	MTFRM	1
AR0144CSSM28SUKA0-CPBR	Active		-	1	-	-	-	-	-	-	-	ODCSP-69	570BV.PDF	5	260	CTRAY	3000