ARX383

Image Sensor, 0.3 MP, Global Shutter, Hyperlux™ SG

Product Overview

For complete documentation, see the data sheet.

The ARX383 is a 1/8inch 0.3Mp VGA CMOS digital image sensor with an activepixel array of 640 x 480. It incorporates an innovative global shutter pixel design optimized for accurate and fast capture of moving scenes at 120 frame per second, full resolution. The sensor produces clear, low noise images in both lowlight and bright scenes. It includes sophisticated camera functions such as adjustable auto-exposure control, auto black-level correction, windowing, skipping, pixelbinning, and, both video & single frame modes. It is programmable through a simple twowire serial interface. The ARX383 produces clear, sharp digital pictures with an industry leading Global Shutter Efficiency, and its ability to capture both continuous video and single frames makes it the perfect choice for a wide range of applications, including scanning, autonomous mobilty, AR/VR, AIoT and industrial quality control.

Features

- Best in Class Global Shutter Efficiency
- Low Operational Power
- Small Form Factor
- Built-In Statistics Engine
- Multiple Subsampling Modes

Applications

- Barcode Scanning
- People Counting
- Machine Vision
- Autonomous Mobility
- AR/VR/MR

End Products

- Barcode Scanners
- People Counters
- Machine Vision Cameras
- AR/VR/MR Headsets
- Payment Terminals with Face-Access

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.
ARX383CSSM00SMD20	Active		CMOS	0.3	120	1/8 inch	Global Shutter	2.8 x 2.8	MIPI	Mono	Hyperlux SG	-		NA	0	MTFRM	1
ARX383CSSM00SMD20-RC1	Active		CMOS	0.3	120	1/8 inch	Global Shutter	2.8 x 2.8	MIPI	Mono	Hyperlux SG	-		NA	0	MTFRM	1
ARX383CSSM00SMKA0-CP	Active		CMOS	0.3	120	1/8 inch	Global Shutter	2.8 x 2.8	MIPI	Mono	Hyperlux SG	ODCSP 35 3.922x3.556	570CU.PDF	4	250	CTRAY	3000
ARX383CSSM00SMKA0-CP2	Active		CMOS	0.3	120	1/8 inch	Global Shutter	2.8 x 2.8	MIPI	Mono	Hyperlux SG	ODCSP 35 3.922x3.556	570CU.PDF	4	250	CTRAY	50
ARX383CSSM00SMKA0-CR	Active		CMOS	0.3	120	1/8 inch	Global Shutter	2.8 x 2.8	MIPI	Mono	Hyperlux SG	ODCSP 35 3.922x3.556	570CU.PDF	4	250	CTRAY	3000
ARX383CSSM28SMD20	Active		CMOS	0.3	120	1/8 inch	Global Shutter	2.8 x 2.8	MIPI	Mono	Hyperlux SG	-		NA	0	MTFRM	1
ARX383CSSM28SMD20-RC1	Active		CMOS	0.3	120	1/8 inch	Global Shutter	2.8 x 2.8	MIPI	Mono	Hyperlux SG	-		NA	0	MTFRM	1
ARX383CSSM28SMKA0-CP	Active		CMOS	0.3	120	1/8 inch	Global Shutter	2.8 x 2.8	MIPI	Mono	Hyperlux SG	ODCSP 35 3.922x3.556	570CU.PDF	4	250	CTRAY	3000
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