

AR1820HS

CMOS Image Sensor, 18 MP, 1/2.3"

Product Overview

For complete documentation, see the data sheet.

The AR1820HS is an 18 megapixel, 1/2.3-inch format, 1.25 μ m pixel sensor using ON Semiconductor's A-PixHS™ BSI technology. With a variety of operating modes, the AR1820HS can dynamically optimize resolution, low-light and frame rate for environmental conditions. For example, the camera could run in full 18 megapixel resolution at 24 fps under high-light conditions, and switch to a 2:1 summing and 2:1 binning at 1080p 60 frames-per-second mode for superb low-light performance under darker conditions. With high resolution and frame rates, and a variety of flexible modes, the AR1820HS sensor is excellent for many applications such as surveillance, sports cameras and mobile handsets.

Applications

- Camera
- Security

Part Electrical Specifications

Product	Status	Compliance	Type	Megapixels	Frame Rate (fps)	Optical Format	Shutter Type	Pixel Size (μ m)	Output Interface	Color	Package Type	Case Outline	MSL Type	MSL Temp (°C)	Container Type	Container Qty.
AR1820HSSC00 SHEA0-DP1	Last Shipments		CMOS	18.1	24	1/2.3 inch	Electronic Rolling	1.25 x 1.25	MIPI	RGB	IBGA-60	503 AC.PDF	4	260	JTRAY	240
AR1820HSSC00 SHEA0-DR	Obsolete		CMOS	18.1	24	1/2.3 inch	Electronic Rolling	1.25 x 1.25	MIPI	RGB	IBGA-60	503 AC.PDF	4	260	JTRAY	240
AR1820HSSC12 SHEA0-DP	Last Shipments		CMOS	18.1	24	1/2.3 inch	Electronic Rolling	1.25 x 1.25	MIPI	RGB	IBGA-60	503 AC.PDF	4	260	JTRAY	240
AR1820HSSC12 SHEA0-DP1	Last Shipments		CMOS	18.1	24	1/2.3 inch	Electronic Rolling	1.25 x 1.25	MIPI	RGB	IBGA-60	503 AC.PDF	4	260	JTRAY	240
AR1820HSSC12 SHEA0-DR	Obsolete		CMOS	18.1	24	1/2.3 inch	Electronic Rolling	1.25 x 1.25	MIPI	RGB	IBGA-60	503 AC.PDF	4	260	JTRAY	240
AR1820HSSC12 SHEA0-DR1	Obsolete		CMOS	18.1	24	1/2.3 inch	Electronic Rolling	1.25 x 1.25	MIPI	RGB	IBGA-60	503 AC.PDF	4	260	JTRAY	240
AR1820HSSC12 SMD20	Last Shipments		CMOS	18.1	24	1/2.3 inch	Electronic Rolling	1.25 x 1.25	MIPI	RGB	-		NA	0	MTFRM	1
AR1820HSSC31 SMD20	Obsolete		CMOS	18.1	24	1/2.3 inch	Electronic Rolling	1.25 x 1.25	MIPI	RGB	-		NA	0	MTFRM	1