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1/2.8-inch 2 MP CMOS Digital Image Sensor with Global Shutter AR0235CS

Description

The AR0235CS is a 1/2.8-inch CMOS digital image sensor with an active-pixel array of 1920 (H) x 1200 (V). It incorporates a new innovative global shutter pixel design optimized for accurate and fast

capture of moving scenes. glr wE1u.deTs TD0 Tri6ear, lg8ediseTT299 eDorp bon, lg8ediseTT299 eD s305o6tmFTT64uaZla il 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.

Table 1. KEY PERFORMANCE PARAMETERS

Parameter	Typical Value
Optical Format	1/2.8-inch (6.34 mm)
Active Pixels	1920 (H) x 1200 (V) not including 8 border pixels on each side
Pixel Size	2.8 μm
Color Filter Array	Monochrome
Chief Ray Angle	0 or 28
Shutter Type	Global Shutter
Input Clock Range	10–48 MHz
Output Interface	8-bit/10-bit MIPI 1, 2, or 4-lane
Output Data Rate	Maximum Serial Output Data Rate 850 Mbps/lane
Frame Rate Full Resolution	120 fps (10-bit)
Responsivity Monochrome	41.9 ke-/lux*s
SNR _{MAX}	37 dB
Dynamic Range	65.3 dB
Supply Voltage I/O Digital Analog	1.8 V 1.25 V 2.8 V
Power Consumption	252 mW, at 120 FPS, Full Resolution
Operating Temperature	(-30 C < T _J < 36 €

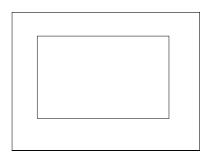
AR0235CS

AR0235CS

PACKAGE DIMENSIONS



ODCSP62 7.659x5.643 CASE 570CY ISSUE O



TOP VIEW

