

# Dart 60fps Area Scan Cameras

A BCON for the MIPI camera module with the ON Semi AR0521 CMOS sensor

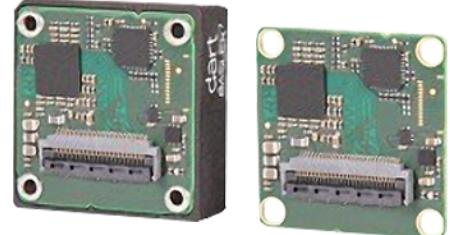
## Product Overview

07/07/2022

For the most up-to-date information, visit [www.mouser.com](http://www.mouser.com) or the supplier's website.

## Description

The Basler dart 60fps Area Scan Cameras are a BCON for MIPI camera module with the ON Semiconductor AR0521 CMOS sensor. The Area Scan Cameras feature 60 frames per second at 5MP resolution. The dart series Cameras are a flexible mount concept allowing for a variety of lenses to be used, including affordable S-mount lenses. Moreover, this series sets a new standard in single-board cameras with a small footprint of 27mm × 27mm.



BCON incorporates the synergies made possible by combining embedded interface technologies such as LVDS or MIPI CSI-2 with Machine Vision features and technology standards like GenICam. BCON for MIPI is tailor-made for embedded vision applications with the MIPI CSI-2 interface.

The dart daA2500-60mci Area Scan Cameras offers color creation, color enhancement, and image acquisition control. The cameras offer two models.

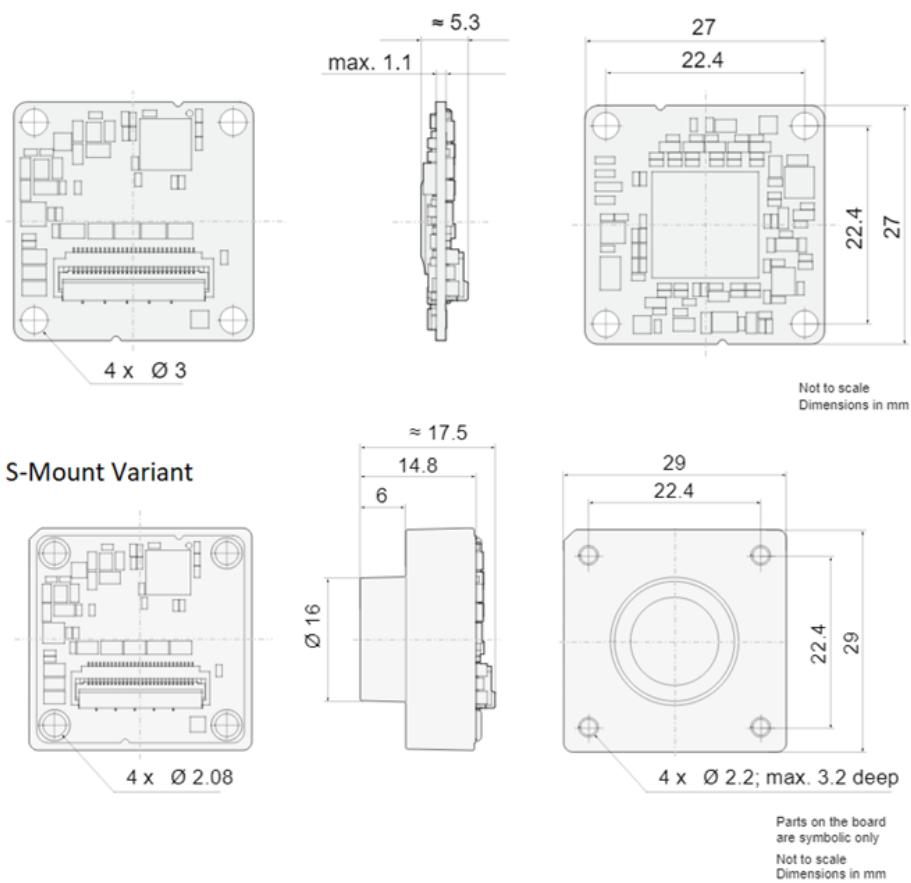
## Features

- Sensor Vendor: ON Semiconductor
- Sensor: AR0521
- Shutter: Rolling Shutter
- Max. Image Circle: 1/2.5"
- Sensor Type: CMOS
- Resolution (HxV): 2560px x 1920px
- Resolution: 5MP
- Pixel Size (HxV): 2.2µm x 2.2µm
- Frame Rate: 60fps
- Mono/Color: Color
- Interface: BCON for MIPI
- Pixel Bit Depth: 8, 12bits
- Synchronization:
  - Free-run
  - Software trigger

## Features

- Image Processing: In-Camera Processing
- Exposure Control:
  - Programmable via the camera API
    - Automatic
    - Manual
- Digital Input: 2
- Digital Output: 2
- Power Requirements: 5VDC (via BCON for MIPI interface)
- Power Consumption (typical): 0.6W
- Housing Type: Board Level
- Housing Size (L x W x H): 27mm x 27mm x 5.3mm
- Weight (typical): 5g

## Dimensions



## Mouser Part Numbers

[View All Parts](#)

To learn more, visit <https://www.mouser.com/new/basler/basler-dart-60fps-area-scan-cameras/>