

# S50 Series

Compact Smart Camera



IP-67 Rated enclosure

Best Performance: Single Core Cortex-A9 processor and Xilinx FPGA

Open system with Linux O.S.



VGA global shutter CMOS image sensor

Complete interface and communication capabilities: Gigabit Ethernet, digital I/O, RS232/485 serial ports

Compact size: only 45x45x41 mm



## ▼ **Smart solution**

With a VGA resolution and a speed of 120 frame per second, S50 Smart Camera is suitable for all vision system application.

The frame rate of the camera can be further increased thanks to the windowing features: capturing only a portion of the sensor allows higher frame rates for smallest regions of interest.

## ▼ **FPGA**

The image acquisition and image preprocessing are performed by dedicated FPGA in real time.

## ▼ **Open System**

Thanks to the use of Linux O.S., it is possible to develop Vision Application with Tattile software or third parties library / software.

## ▼ **Architecture**

The S50 Smart Camera features a Single Core Cortex-A9 800MHz CPU and an Xilinx Artix 28K Logic Cells FPGA. Thanks to Tattile's technology based on FPGA, this smart camera can guarantee the real-time execution of critical functions such as image capture, image preprocessing, and I/O.

## ▼ **IP-67**

The IP-67 rated housing of S50 Smart Camera allows the installation even in harsh environment.

## ▼ **Interface and Communication**

The integration of the S50 Smart Camera is made easy by the full-featured set of interfaces available: Gigabit Ethernet, RS232, RS485, 2 inputs, 2 outputs, 2 strobe outputs.

## ▼ **Compact size**

Thanks to its compact size, it can be easily integrated into any machine and production line.



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## Technical Data

<b>Device</b>	<b>S50</b>
<b>Resolution</b>	640x480
<b>Frame Rate</b>	120 fps
<b>Sensor type</b>	1/3" CMOS
<b>Sensor model</b>	CMV300
<b>CPU</b>	Single Core Cortex-A9 800 MHz
<b>System RAM</b>	512 MB
<b>Flash Memory</b>	Secure Digital 8 GB (up to 32 GB)
<b>FPGA</b>	Xilinx 28K Logical Elements
<b>Lighting direct channel</b>	2 channels
<b>Integrated Illumination</b>	Optional removable
<b>Strobe output</b>	2
<b>LAN</b>	Gigabit Ethernet
<b>Digital input</b>	2
<b>Digital output</b>	2 PNP
<b>Serial port</b>	RS232-RS485
<b>Internal protection</b>	IP67
<b>Lens</b>	C-Mount
<b>Operating system</b>	Linux

## S50 Series - Part Number

<b>F01623</b>	S50 SMART CAMERA 640x480 MONO
<b>F01624</b>	S50 SMART CAMERA 640x480 COLOR

