



S200 Series

4 Megapixel Smart Camera

High-resolution: 4.2 Megapixels
global shutter CMOS image sensor

Ultra high-speed: 180
frames per second at
full resolution

Powerful image processing:
Dual Core Cortex-A9
processor and Xilinx FPGA



IP-67 Rated enclosure

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

Open system
with Linux O.S.



High Performance Inspection

▼ **Ultra High-Speed**

With a 4.2 Megapixels resolution and a speed of 180 frame per second, S200 Smart Camera opens new horizons for your applications.

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 (programmable on demand).

▼ **IP-67**

IP-67 rated housing of S200 Smart Camera allows the installation even in harsh environment.

▼ **Architecture**

The S200 Smart Camera features a Dual Core Cortex-A9 800MHz CPU and an Xilinx Artix 85K Logic Cells FPGA working closely together.

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, I/O and incremental encoder management.

▼ **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.

▼ **Direct encoder input**

If the vision system must be interfaced to an incremental encoder, the line-drive RS422 encoder input allows a perfect synchronization without the need of other interface devices.

▼ **Interface and Communication**

The integration of the S200 Smart Camera is made easy by the full-featured set of interfaces available: Gigabit Ethernet, RS422 incremental encoder input, RS232, RS485, 2 inputs, 3 outputs, 3 strobe outputs.



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Technical Data

Specification	Value
Resolution	2048 x 2048 pixels
Frame rate	180 fps
Sensor type	1" CMOS
Sensor model	CMV4000
CPU	Dual core ARM Cortex-A9 800 MHz
System RAM	1 GB
Flash Memory	Secure Digital 8 GB (up to 32 GB)
FPGA	Xilinx Artix-7 85K LEs
FPGA RAM	1 GB
Digital inputs	2
Digital outputs	3 PNP
Strobe output	3 channels
Encoder input	3 channels RS422 Line Driver
LAN	Gigabit Ethernet
Serial interfaces	RS232-RS485
Internal Protection	IP67
Lens	C-Mount
Operating system	Linux
Power supply	24 VDC

Part Numbers

F01576	S200 Smart Camera 2048X2048 Mono
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