

製品概要

PYTHON10K: CMOS Image Sensor, Global Shutter, 11.1 MP

技術情報は、データシートをご参照ください。

The PYTHON 10K is a 11.1 MP (3840 x 2896 pixel) 10-bit CMOS image sensor in 4/3 optical format, supporting up to 175 frame per second readout at full resolution.

High sensitivity 4.5 μm pixels support both pipelined and triggered global shutter readout modes. The sensor also supports correlated double sampling (CDS) readout in global shutter mode, reducing noise and increasing dynamic range.

The sensor is programmed using a four-wire serial peripheral interface. Black level can be calibrated automatically, or adjusted using a user programmable offset. The sensor also supports readout of up to 32 separate regions of interest (ROI) to increase frame rate. Image data is accessed through 32, 16, 8, or 4 LVDS channels, each running at 720 Mbps, and a separate synchronization channel is provided to facilitate image reconstruction.

The PYTHON 10K is packaged in a 355-pin μPGA package and is available in a monochrome, Bayer color, and extended near-infrared (NIR) configurations.

特長

- IP-CDS global shutter technology
- HW scalable family
- High configurability
- Fast adaptability
- Multiple windowing
- High frame rate

アプリケーション

- Image Capture

利点

- Global shutter imaging with single digit noise performance
- One camera design to support multiple resolutions
- High flexibility to optimize sensor for end application
- Fast switching between operating modes
- Speed increase from windowing in x- and y- direction
- Fast image capture capabilities

最終製品

- Industrial cameras and systems
- Intelligent Transportation Systems (ITS)
- Medical Imaging Systems
- Inspection systems (food, bottles, recycling labels, etc.)
- Security cameras and systems

詳細は、弊社 www.onsemi.jp の営業または販売代理店にお問い合わせください。

8/12/2020 作成