ATA-VISION
The sensors interfacing company

For OEM customers, ATA-VISION designs and manufactures Application Specific Smart cameras and others sensors interfacing products mainly for vision applications.

A smart camera includes images processing in real-time like one or more feature extraction and metadata generation.

We provide interfacing of various vision sensors such as CCD, CMOS, sCMOS, EMCCD, ICCD, emICCD, IR, LWIR, UV, TOF, linear, matricial... up to high resolution like 4K, high frame rate and very high sensitivity.

The processing technologies embedded in the smart cameras is a mixing of parallel processors in FPGA (Field Programmable Gate Array) or GPU, and classical X86 or ARM CPU.

Application specific smart cameras designed by the company answer a need of:

Multidimensional images acquisition using multiple image sensors of the same or various types as 2D-RGB, depth, IR, UV   combined with others sensors of data
Very high resolution images capture and/or very high frame rate
Special mechanical requirements: compactness, running in extreme conditions...
Real-time metadata generation
Real-time images processing: images enhancement, images compression, video analytics as objects detection and recognition
Connectivity to Ethernet network, 3G-SDI, 12G-SDI, very high bandwidth optical network
The company provides also various design services in electronic equipments.

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Market(s)

Cinema, TV and Animation

Broadcast Technologies

Intercative media, gaming, transmedia, web, mobile, social networks

Strategic lines

Broadcast emplacement, Camera/Film shoot material, Digital equipment, Image analysis, Image processing MPEG4, JPEG2000 Compression, R&D, Digitization & Digital archiving, Stereoscopic 3D