



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts,Customers Priority,Honest Operation,and Considerate Service",our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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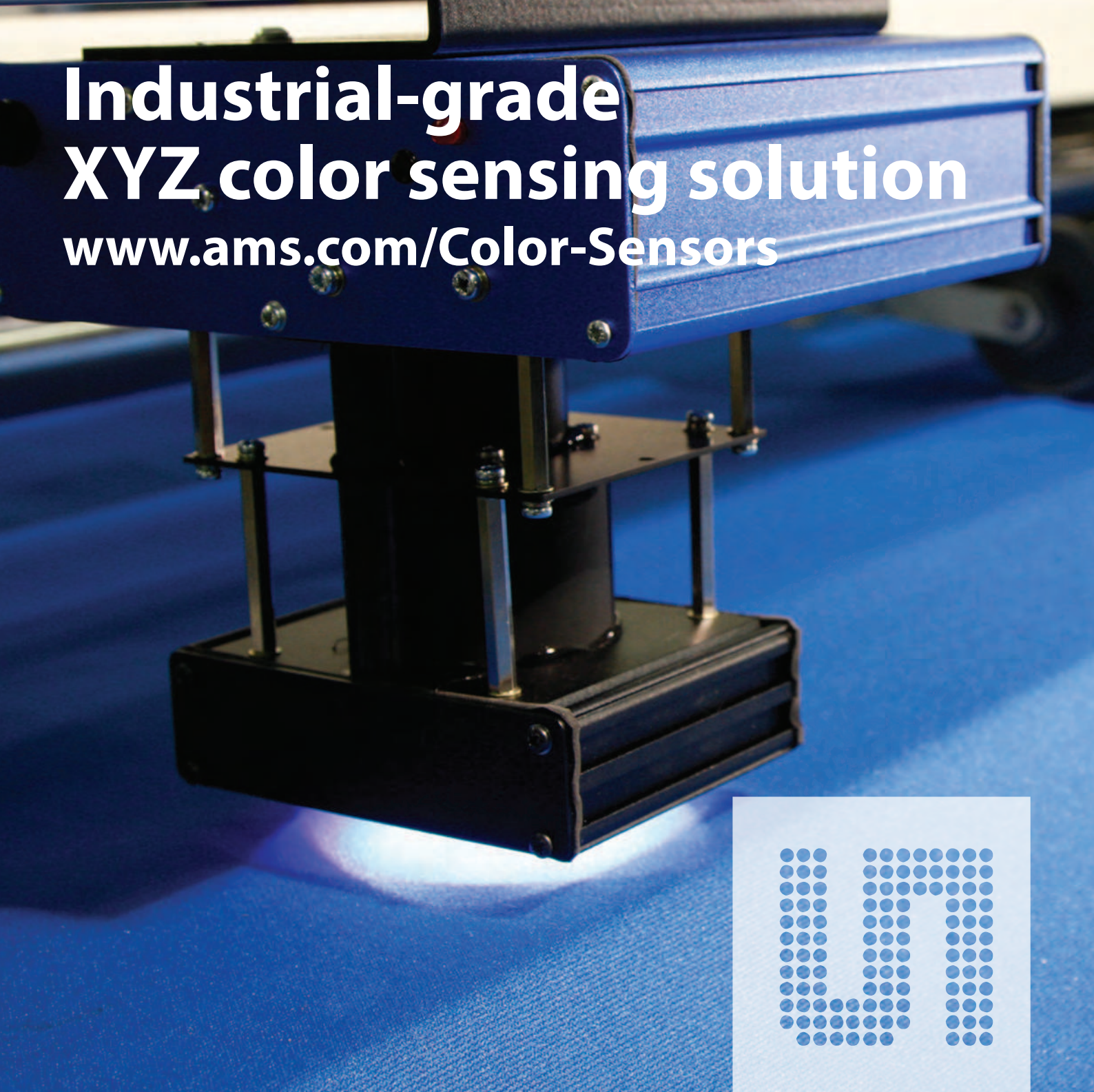
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Industrial-grade XYZ color sensing solution

www.ams.com/Color-Sensors



AS73210 – JENCOLOR® Analog XYZ Color Sensor with large detector area

- No aging of the filter, UV resistant
- High temperature stability up to 100°C
- High speed measurement in combination AS89000 or AS89020
- Minimal cross talk, smooth filter curves due to filter on glass technology
- High sensitiveness through large area diode

**Sensing
is life.**

General Description

The AS73210 is a True Color Sensor with a filter function based on the color standard CIE 1931/DIN 5033 (human eye perception) in a compact QFN16 package. The AS73210 is long-term stable over the entire product lifetime and resistant to external influences such as temperature or aging drifts, due to the special JENCOLOR® interference filter technology. The JENCOLOR® sensors are made of 19x3 photodiodes integrated on-chip

(special pin silicon technology with advanced sensitivity). The diodes are aligned as segments of a multiple-element hexagonal matrix structure with the diameter of 2 mm. The design as Si-PIN photodiodes allows signal frequencies up to the upper kHz-range. In order to achieve minimal cross talk between the photodiodes the individual sectors are separated from each other by additional structures.

Benefits

- High transmission and blocking interference filters
- No aging of the filter, UV resistant
- High temperature stability up to 100°C
- High signal frequency up to 340 kHz in combination with AS89020
- Minimal cross talk, smooth filter curves due to patented filter on glass technology
- High sensitiveness through large area diode (diameter of the optical sensitive surface approx. 2mm)

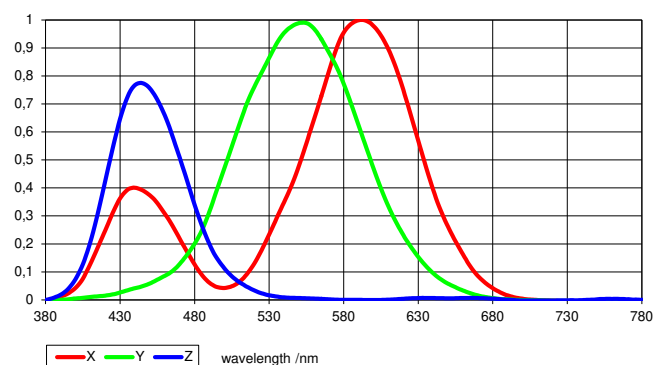
Applications

- Inline + offline color matching for industrial applications
- Active feedback control for LED lighting
- Inline manufacturing and process control
- Auto-calibration of displays & monitors
- Ambient light and color metering

Features

- JENCOLOR® interference filter characteristic based on CIE 1931/ DIN5033
- Analog output
- Compatible with analog and digital converters
 - AS89000 high speed analog output
 - AS89010 high resolution digital output
 - AS89020 high speed digital output
- QFN16-package in size 4x4 mm

Spectral Responsibility



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