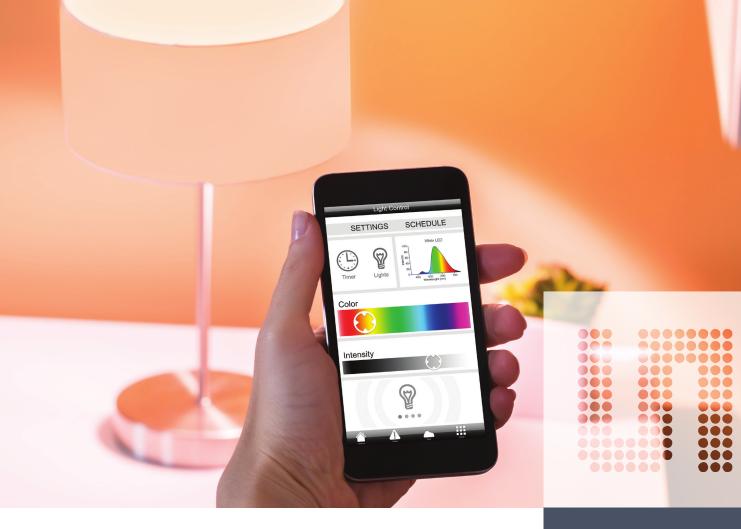
Product Document

Published by ams OSRAM Group



11-Channel Spectral Sensor www.ams.com/AS7341



AS7341 – dramatically improves AWB (Automatic White Balance) function for a range of applications:

- Ambient light flicker detection to distinguish artificial from natural light sources
- Wide range of lighting conditions that can be measured (CCT, lux)
- Ambient light spectra information (e.g.: mixed spectra) improves AWB performance
- Ambient light classification across a wide range of homo & heterogonous light sources

Sensing **is life.**

amu

General Description

The AS7341 is a complete spectral sensor housed in a 3.1mm x 2.0mm x 1.0mm LGA package with aperture. It is an 11-channel device, which provides highly accurate and precise characterizations of the spectral content of a directly measured light source, or of a ref ective surface.

Eight of the channels cover eight equally spaced portions of the visible light spectrum. The device also features a near infrared channel, a clear channel, and a channel dedicated to the detection of typical ambient light f icker at a frequency of 50Hz up to 1kHz.

Beside camera image optimization, the AS7341 spectral sensor also supports various applications, such general color measurement of materials or f uids, skin tone measurement, and others.

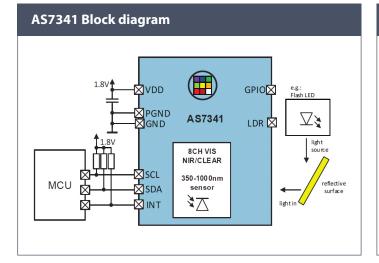
In end products such as mobile phones or accessories, the AS7341 produces more precise spectral measurements in a wider range of lighting conditions. The small dimensions also mean that it is easier to accommodate it in mobile phones and other portable devices.

Applications

- Flicker compensated camera operation of mobile devices or professional cameras
- Improved AWB automatic white point balancing
- Spectral detection of light sources

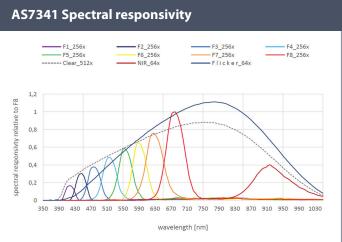
Benef ts

- Light source/ scene identif cation
- CCT & lux measurements
- Flicker detection of 50Hz to 1kHz



Features

- 8 optical channels distributed over the visible range
- 3 special purpose channels: Clear, Flicker and NIR channel
- Integrated Flicker detection from 50Hz to 1kHZ
- 6 parallel ADCs for signal processing
- Ultra-low-prof le package 3.1 x 2 x 1mm



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Headquarters

ams AG Tobelbader Strasse 30, 8141 Premstaetten, Austria Phone +43 3136 500-0 Sales Of ces Worldwide sales-europe@ams.com sales-asia@ams.com sales-americas@ams.com