New Offerings from ST Imaging…Making Light work

VD6283 Product Overview and Key Features

VD6283 Applications and Use Cases

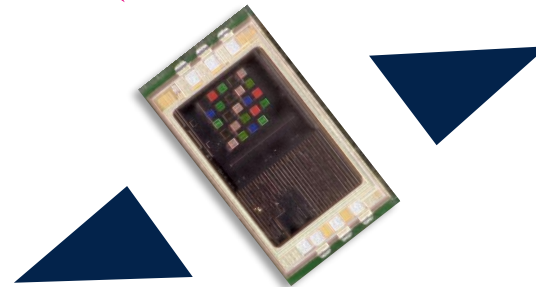**VD6283 Display Applications**

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Smallest Multispectral ALS with Best-in-class CCT

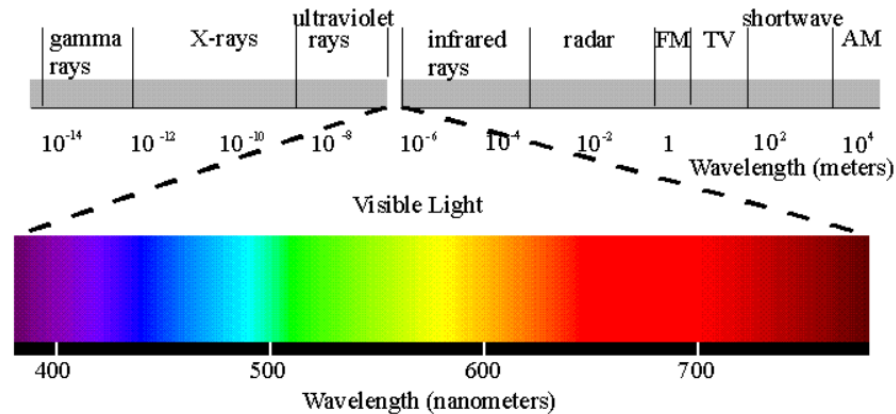**1.83 x 1.0 x 0.55mm**
Smallest on the market

Light Flicker extractor

- Only sensor in the market with **real flicker extraction engine**
- For all frequencies from 100Hz up to 2kHz
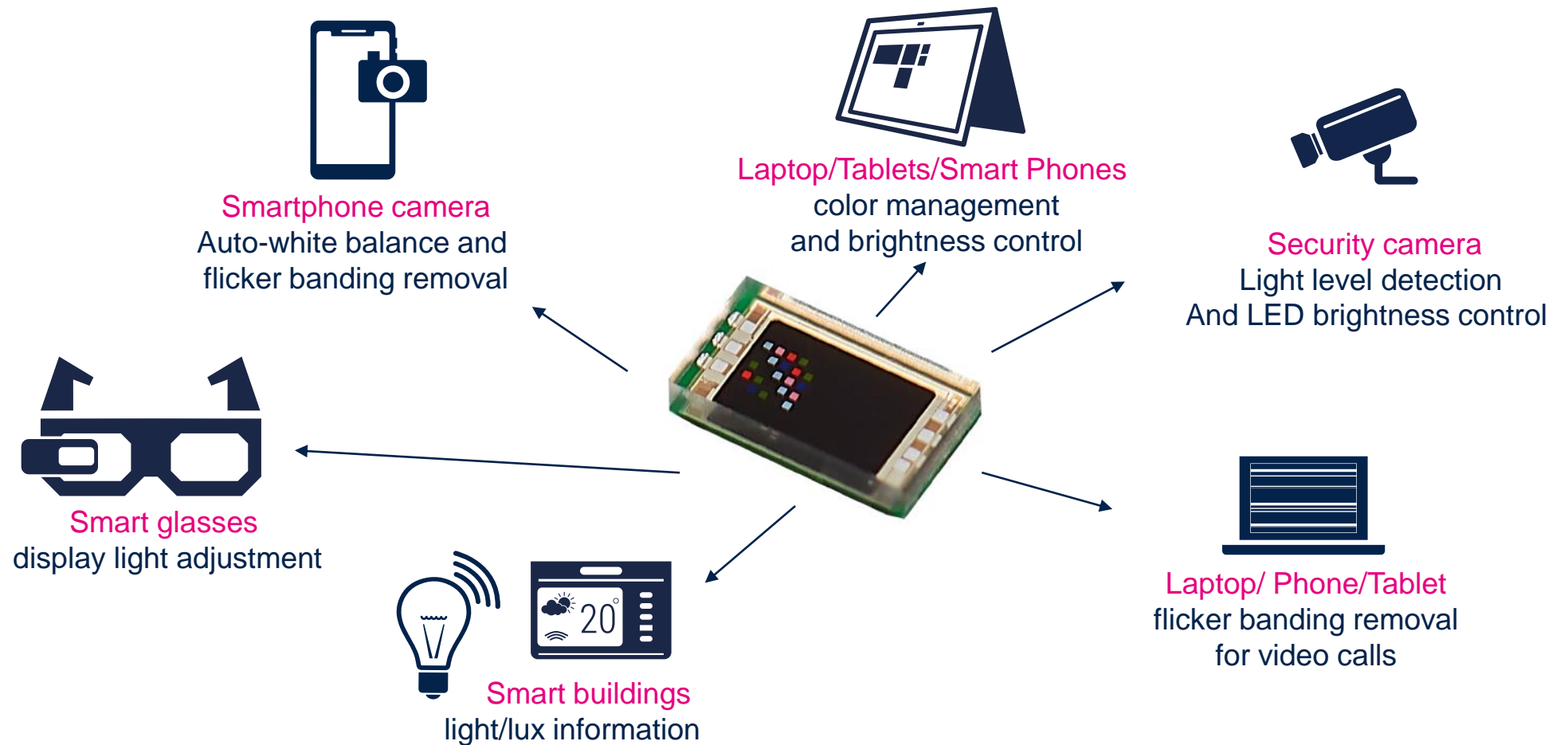- Can work **simultaneously** with ALS

- 6 channels: **R, G, B, IR, Visible and Clear**

- Large **dynamic range**

- Excellent sensitivity, **best-in-class CCT performance on RGB channel**

gamma rays | X-rays | ultraviolet rays | infrared rays | radar | FM TV | shortwave AM

10^{-14} 10^{-12} 10^{-10} 10^{-8} 10^{-6} 10^{-4} 10^{-2} 1 10^{2} 10^{4} Wavelength (meters)

Visible Light

400   500   600   700
Wavelength (nanometers)

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Ambient Light Sensor

Smartphone camera
Auto-white balance and
flicker banding removal

Laptop/Tablets/Smart Phones
color management
and brightness control

Security camera
Light level detection
And LED brightness control

Smart glasses
display light adjustment

Smart buildings
light/lux information

Laptop/ Phone/Tablet
flicker banding removal
for video calls

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Brightness and Color information for Displays

- **Adaptive Brightness**

- **Adaptive Color**

- **Adaptive Blue Light**
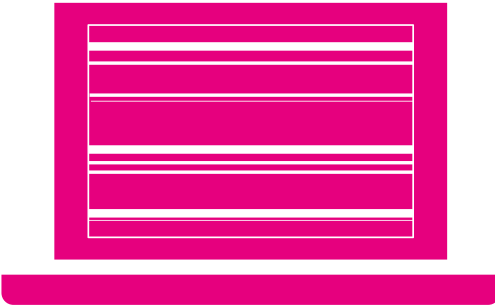
For eye strain reduction

Flicker Free Video Chat

- **Allows to solve camera "banding effect"**

- **Ability to extract flicker from 100Hz to 2KHz**

- **Flicker detection Engine can work simultaneously with light sensing**

For flicker-free video chats