

# Brookman Technology, Inc.

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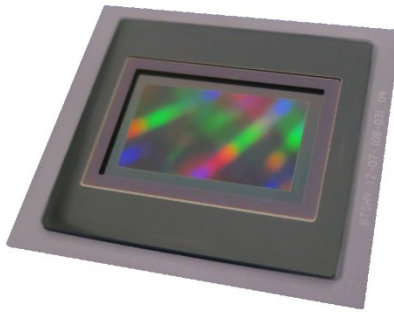
## What we do

## Standard Products ~ BT Sensors

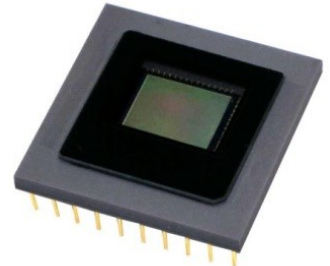
We provide unique CMOS image sensors for specific applications.



**BT130A**  
High Speed CIS



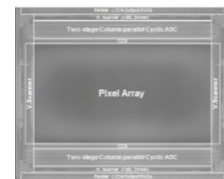
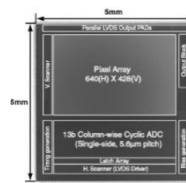
**BT3300N**  
8K Super Hi-Vision CIS



**BT130C**  
Ultra High Sensitivity CIS

## Custom CIS Design & Development

We provide CUSTOM CMOS image sensor design services based on our client's specifications. Our engineering team can supply innovative and stable solutions with expertise as a design partner. Our customers have included the best-known names in IDMs (Integrated Device Manufacturers), automotive and medical device makers, as well as public institutions.



## Intellectual Property (Inc. Patent Royalty)

We also provides custom IP design : e.g. Built-in A/D Convertor , Analog Amplifier and Key blocks in CMOS /non-CMOS Image Sensor, including Pixel.

## Consulting

Feasibility Study and Design Support for CMOS Image Sensor.



**BROOKMAN TECHNOLOGY**

### <Contact>

Masaaki Sasaki (Sales Manager)

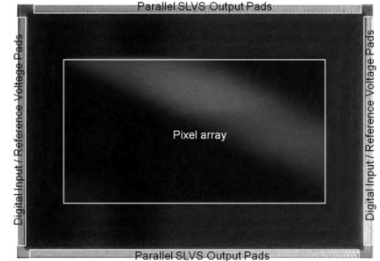
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## ISSCC2016 : 3D-Stacked High-speed 8K Super Hi-Vision Image Sensor

### 『 A 1.1μm 33Mpixel 240fps 3D-Stacked CMOS Image Sensor with 3-Stage Cyclic-Based Analog-to-Digital Converters 』

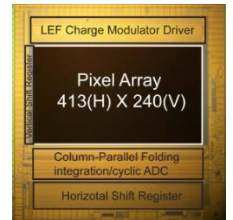
Toshiki Arai, Toshio Yasue, Kazuya Kitamura, Hiroshi Shimamoto, Tomohiko Kosugi, Sungwook Jun, Satoshi Aoyama, Ming-Chieh Hsu, Yuichiro Yamashita, Hirofumi Sumi, Shoji Kawahito  
 NHK Science & Technology Research Laboratories, Shizuoka University, TSMC, and Brookman Technology, Inc.



## ISSCC2014 : Time-of-Flight (TOF) CMOS Range Image Sensor

### 『 A 413 × 240-Pixel Sub-Centimeter Resolution Time-of-Flight CMOS Image Sensor with In-Pixel Background Canceling Using Lateral-Electric-Field Charge Modulators 』

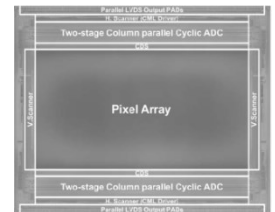
Sang-Man Han, Tomoyuki Akahori, Shoji Kawahito et.al.  
 Shizuoka University, and Brookman Technology, Inc.



## ISSCC2012 : 8K Super High-Vision Image Sensor

### 『 A 33Mpixel 120fps CMOS Image Sensor Using 12b Column-Parallel Pipelined Cyclic ADCs 』

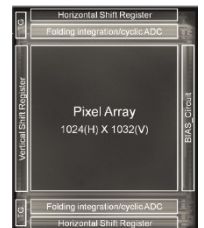
Toshihisa Watabe, Tomohiko Kosugi, Satoshi Aoyama, Shoji Kawahito et.al.  
 NHK Science & Technology Research Laboratories, Shizuoka University, and Brookman Technology, Inc.



## ISSCC2011 : High Sensitivity Wide Dynamic Range CMOS Image Sensor

### 『 An 80μVrms-Temporal-Noise 82dB-Dynamic-Range CMOS Image Sensor with a 13-to-19b Variable-Resolution Column-Parallel Folding-Integration/Cyclic ADC 』

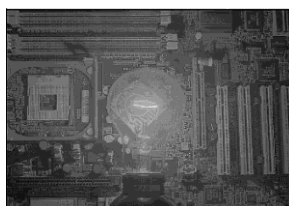
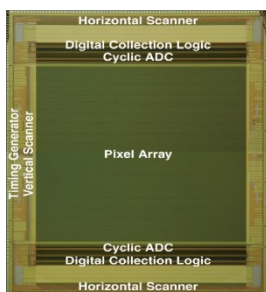
Min-Woong Seo, Tomoyuki Akahori, Keigo Isobe, Takashi Watanabe, Shoji Kawahito et.al.  
 Brookman Technology, Inc., and Shizuoka University



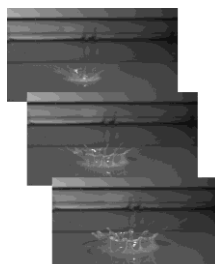
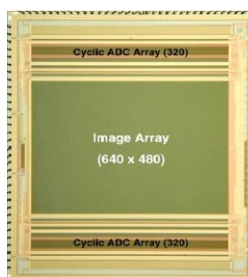
## Background

Figured below are achievements of the “Knowledge CLUSTER I” project, which inspired to establish Brookman Technology Inc..

### Wide Dynamic Range Image Sensor



### High Speed Image Sensor



### Time of Flight Range Image Sensor

