CMOS CAMERA MODULES

your BEST camera module partner

JAL-KG8-F668F

Hynix HI-253 DVP Parallel Schnittstelle Fixer Fokus 2MP Kameramodul

Kameramodul Nr.	JAL-KG8-F668F
Bildsensor	HI-253
EFL	2.95 mm
F.NO	2.8
Pixel	1600 x 1200 (UXGA)
Blickwinkel	60°
Linsentyp	1/5 Zoll
Objektivabmessungen	6.50 x 6.50 x 4.20 mm
Modulgröße	16.86 x 6.50 mm
Modultyp	Fixer Fokus
Schnittstelle	DVP Parallel
Gegenstecker	AET124232B

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Version 0.0
Preliminary

YACD511SBDBS

1/5” 2M Pixels CIS with Image Signal Processor [Hi-253]

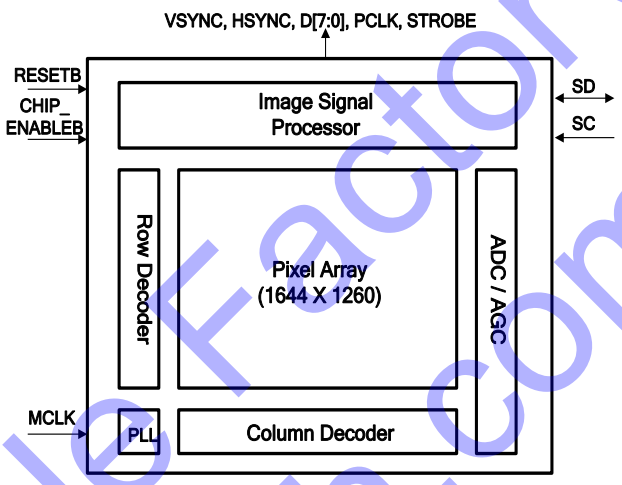
1. OVERVIEW

1.1. Description

YACD511SBDBC is a high quality 2mega-pixel single chip CMOS image sensor for mobile phone camera applications and digital still camera products.

YACD511SBDBC incorporates a 1644 x 1260 pixel array, on-chip 10-bit ADC, and an image signal processor. Unique sensor technology enhances image quality by reducing FPN (Fixed Pattern Noise), horizontal/vertical line noise, and random noise.

<Figure 1. Block Diagram>



1.2. Applications

- Mobile Phone Camera / Digital Still Camera
- PC Camera / Video Conference

1.3. Key Features

- **Pixel Size: 1.75um X 1.75um**
- **Active Image Size : 2.856mm (H) X 2.156mm(V)**
- **Resolution: 1,600H X 1,200V**
- **Optical Format: 1/5 inch**
- **Frame Rate: 15fps@UXGA, 30fps@SVGA**
- **Power Supply: 2.8V / 1.8V**
- **Power Consumption: TBD @ 15fps, UXGA**
- **ADC: 10bit**
- **PLL: On Chip**
- **Operation Temperature: -20 ~ 60°C**
- **Master Clock: 48MHz(Max)**
- **Host Interface: two-wire serial bus interface**
- **Output Format: YUV4:2:2, RGB5:6:5, ITU656-like**
- **Edge Data for Auto Focus**
- **Motion Data for Auto Focus**
- **Windowing: Programmable**
- **Sub-Sample: 1/2, 1/4 (SVGA, QSVGA)**
- **Image Scaling : 1x ~ 1/64x**
- **Image Flip: X/Y Flip**
- **Auto Exposure**
- **Auto White Balance**
- **Anti-Flicker(50Hz / 60Hz): Auto/Manual**
- **Noise Reduction**
- **Black Level Calibration**
- **Strobe Control: Support Xenon / LED Type**
- **On-Chip Dead Pixel Correction**
- **Edge Enhancement**
- **Brightness**
- **Color Saturation**
- **Gamma Correction**
- **Color Correction**
- **Lens Shading Correction**
- **Image Effect: Mono, Sepia, Solarization, Negative, Sketch, Embossing**