

## JAL-KH2-K4700F

Hynix HI-253 DVP paralelo Interfaz Foco fijo 2MP Módulo de cámara



<b>Módulo de cámara No.</b>	<b>JAL-KH2-K4700F</b>
<b>Sensor de imagen</b>	HI-253
<b>EFL</b>	2.95 mm
<b>F.NO</b>	2.8
<b>Pixel</b>	1600 x 1200 (UXGA)
<b>Ángulo de visión</b>	60°
<b>Tipo de lente</b>	1/5 pulgada
<b>Dimensiones de la lente</b>	6 x 6 x 4 mm
<b>Tamaño del módulo</b>	14.3 x 7.59 mm
<b>Tipo de módulo</b>	Foco fijo
<b>Interfaz</b>	DVP paralelo

N. ° de pieza del conector de acoplamiento. AXK7L24223G



Conector de acoplamiento en la placa principal. Se vende por separado.

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.

## 1.2. Applications

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

## 1.3. Key Features

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| <ul style="list-style-type: none"> <li>● Pixel Size: 1.75um X 1.75um</li> <li>● Active Image Size :<br/>2.856mm (H) X 2.156mm(V)</li> <li>● Resolution: 1,600H X 1,200V</li> <li>● Optical Format: 1/5 inch</li> <li>● Frame Rate: 15fps@UXGA, 30fps@SVGA</li> <li>● Power Supply: 2.8V / 1.8V</li> <li>● Power Consumption: TBD @ 15fps, UXGA</li> <li>● ADC: 10bit</li> <li>● PLL: On Chip</li> <li>● Operation Temperature: -20 ~ 60°C</li> <li>● Master Clock: 48MHz(Max)</li> <li>● Host Interface: two-wire serial bus interface</li> <li>● Output Format: YUV4:2:2, RGB5:6:5,<br/>ITU656-like</li> <li>● Edge Data for Auto Focus</li> <li>● Motion Data for Auto Focus</li> <li>● Windowing: Programmable</li> </ul> | <ul style="list-style-type: none"> <li>● Sub-Sample: 1/2, 1/4 (SVGA, QSVGA)</li> <li>● Image Scaling : 1x ~ 1/64x</li> <li>● Image Flip: X/Y Flip</li> <li>● Auto Exposure</li> <li>● Auto White Balance</li> <li>● Anti-Flicker(50Hz / 60Hz): Auto/Manual</li> <li>● Noise Reduction</li> <li>● Black Level Calibration</li> <li>● Strobe Control: Support Xenon / LED Type</li> <li>● On-Chip Dead Pixel Correction</li> <li>● Edge Enhancement</li> <li>● Brightness</li> <li>● Color Saturation</li> <li>● Gamma Correction</li> <li>● Color Correction</li> <li>● Lens Shading Correction</li> <li>● Image Effect: Mono, Sepia, Solarization,<br/>Negative, Sketch, Embossing</li> </ul> |
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<Figure 1. Block Diagram>

