

KLT-M6K-HI253 V1.0

**Hynix HI-253 Parallela DVP Interfaccia Messa a fuoco fissa 2MP
Modulo telecamera**



Modulo telecamera n.	KLT-M6K-HI253 V1.0
Sensore d'immagine	HI-253
EFL	2.95 mm
F.NO	2.8
Pixel	1600 x 1200 (UXGA)
Vista ad angolo	60°
Tipo di lente	1/5 pollice
Dimensioni dell'obiettivo	6.5 x 6.5 x 4.02 mm
Dimensione del modulo	16.12 x 20.3 mm
Tipo di modulo	Messa a fuoco fissa
Interfaccia	Parallela DVP

Connettore di accoppiamento Codice. AXT524124

Connettore di accoppiamento sulla scheda principale. Venduto separatamente.

Version 0.0
Preliminary



YACD511SBDBS

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

Camera Module Factory
www.KailapTech.com

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"> ● 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 | <ul style="list-style-type: none"> ● 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 |
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<Figure 1. Block Diagram>

