

## Reverse engineered datasheet: Vimicro VA6241R-P28

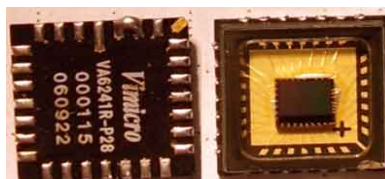
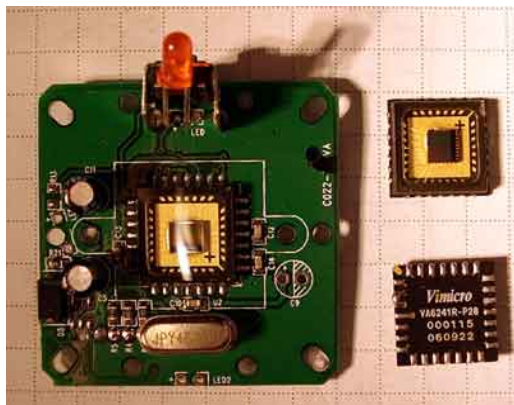
CMOS VGA video sensor with CIS interface. Declared resolution VGA (640 x 480) – 3K pix. But it is resolution of each color pixel. In real, this sensor is ~213 x 200 (1K pix) REAL RGB color pixels.

Color pixels are organized as:

RGRGRGRGRG . . .  
 GBGBGBGBGB . . .  
 RGRGRGRGRG . . .

Chip is made of plastic with glass window. PCB solder pad is same as PLCC 28.

Vimicro semiconductors are hiding datasheets of their products- China people think that other China people will copy products. Hello! They already made a copy. Stop hiding information.

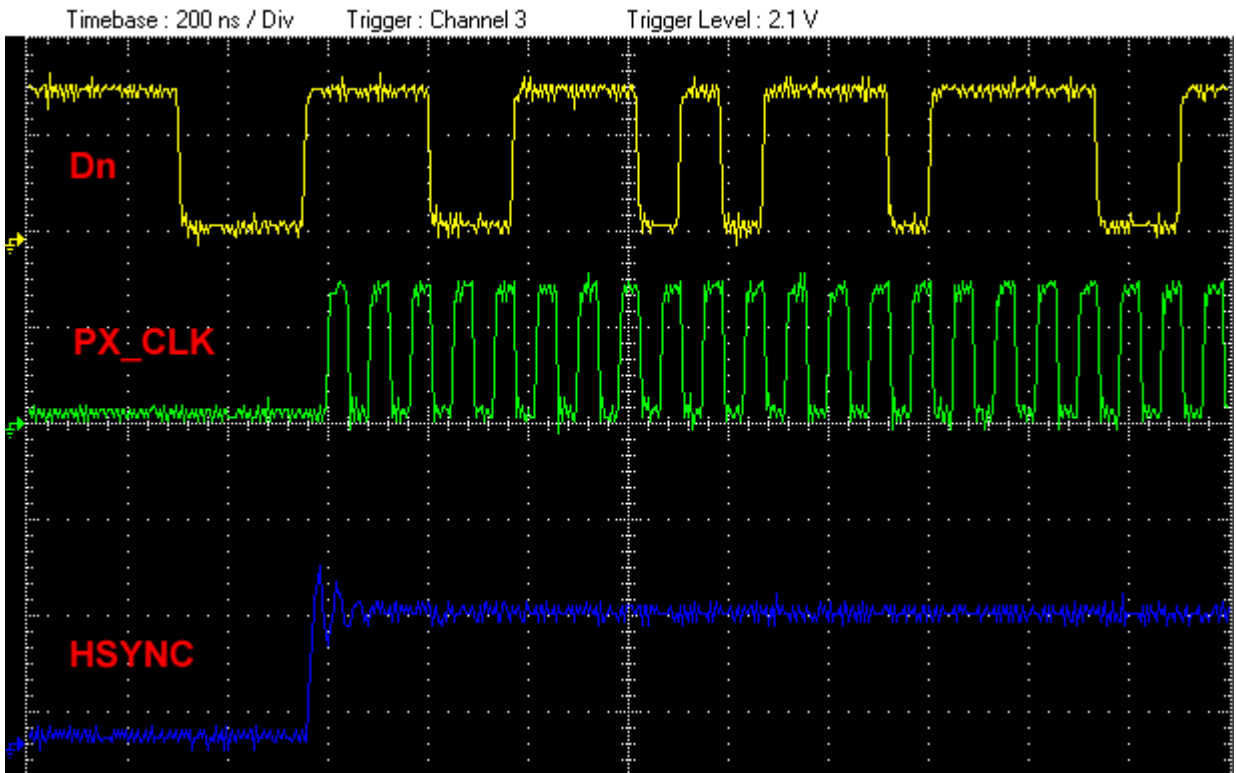


Pin number	Name	Description/ comment
1	GND	GND
2		1.78V
3	D0	OUT: LSB
4	PX_CLK	OUT: pixel clock
5		1.78V
6	GND	
7	GND	0V
8		2.7V
9		1.35V
10	GND	
11		3.3V
12	I2C:CLK	
13	I2C:DAT	
14	VSYNC	OUT: Vertical sync
15	HSYNC	OUT: Horizontal sync, frame end
16	D9	OUT: MSB
17	D8	
18	D7	
19	D6	
20	D5	
21	D4	
22	GND	
23		2.7V
24	D3	
25		3.3V
26	D2	
27	CLK	IN: master clock 20..30MHz (24MHz)
28	D1	

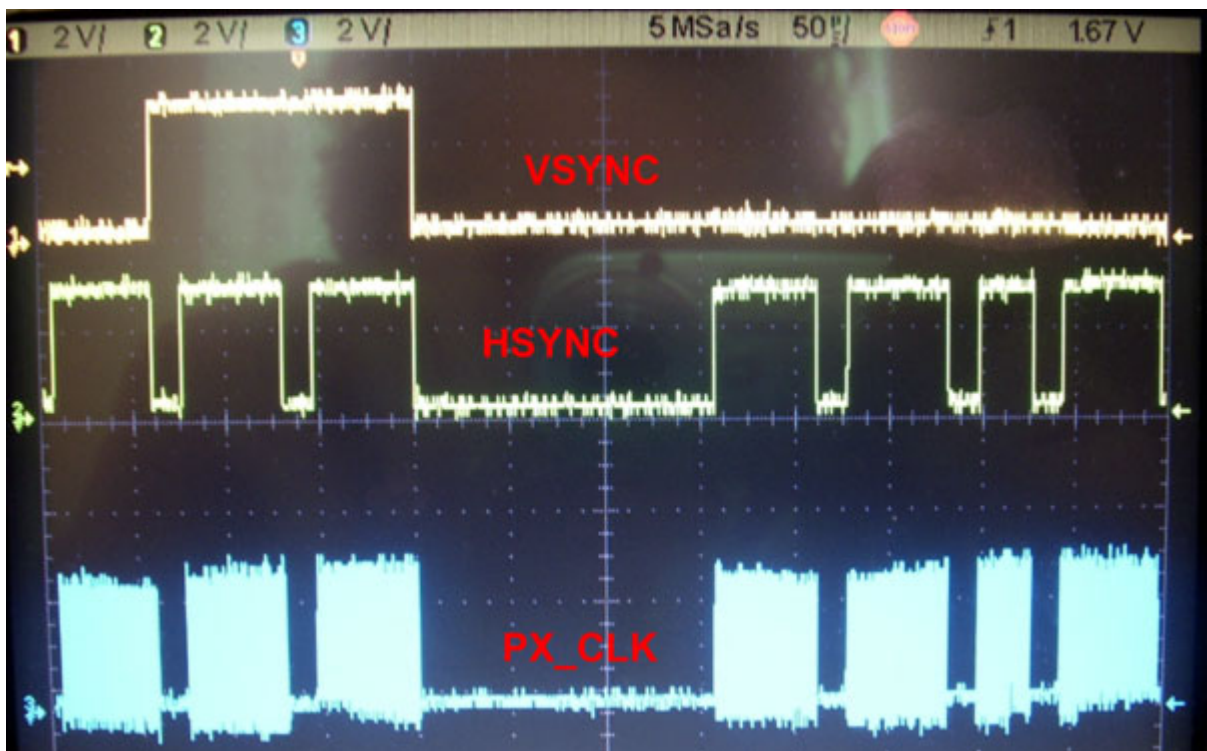
Some of GND pins may be chip enable or other pins.

All you need, just set the voltages according table, feed master clock. Device, in default mode is working in VGA model.

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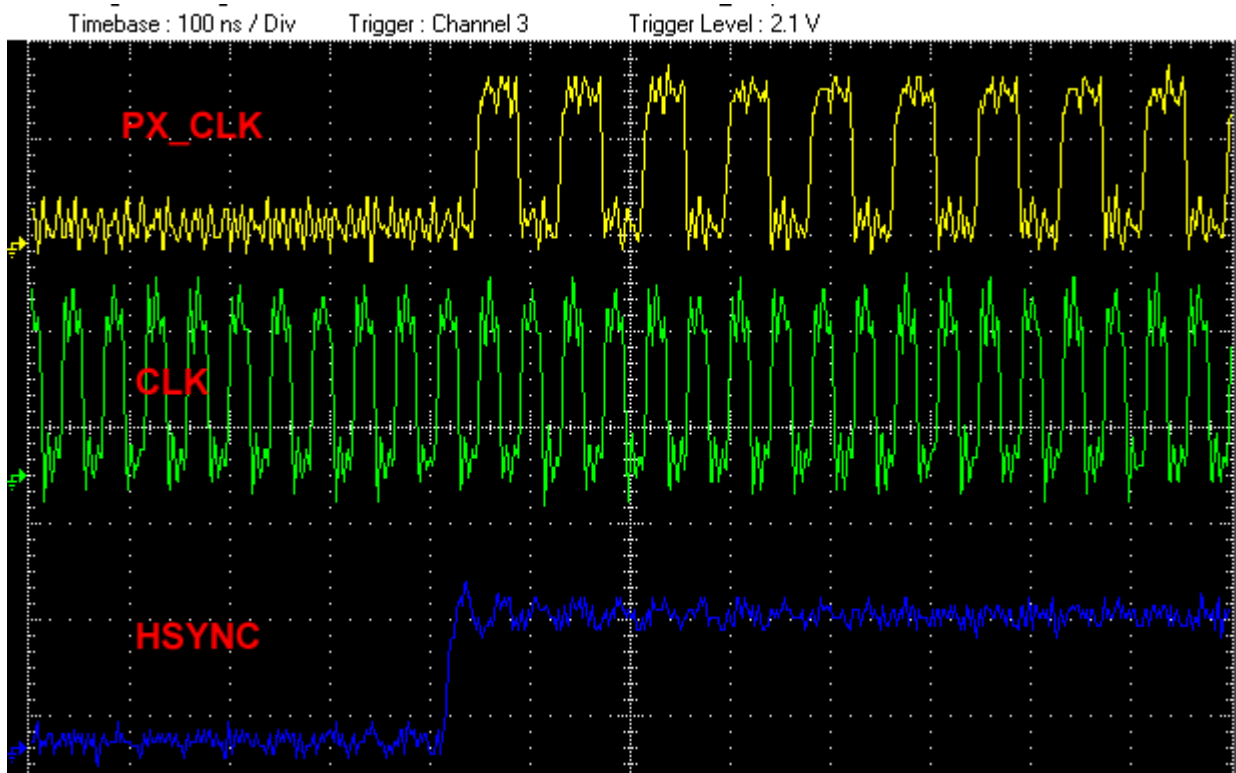


HSYNC, PX\_CLK, D(n)



VSYNC, HSYNC, PX\_CLK

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Clocks: master clock CLK and output pixel clock PX\_CLK.