Progressive CCD

White Balance

DVM “” (White Balance)
“” DVM
“ XLH1 ”
..

XL-1/2

( )
XLH1

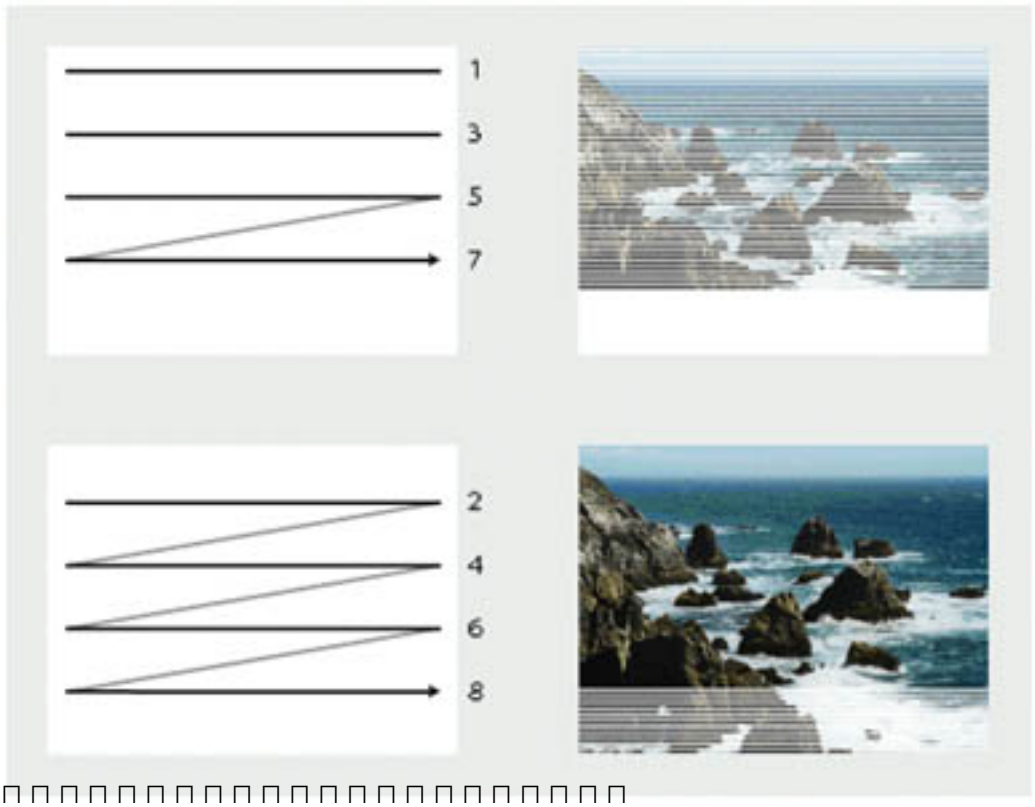
Progressive Scan 24p XLH1

“ ”

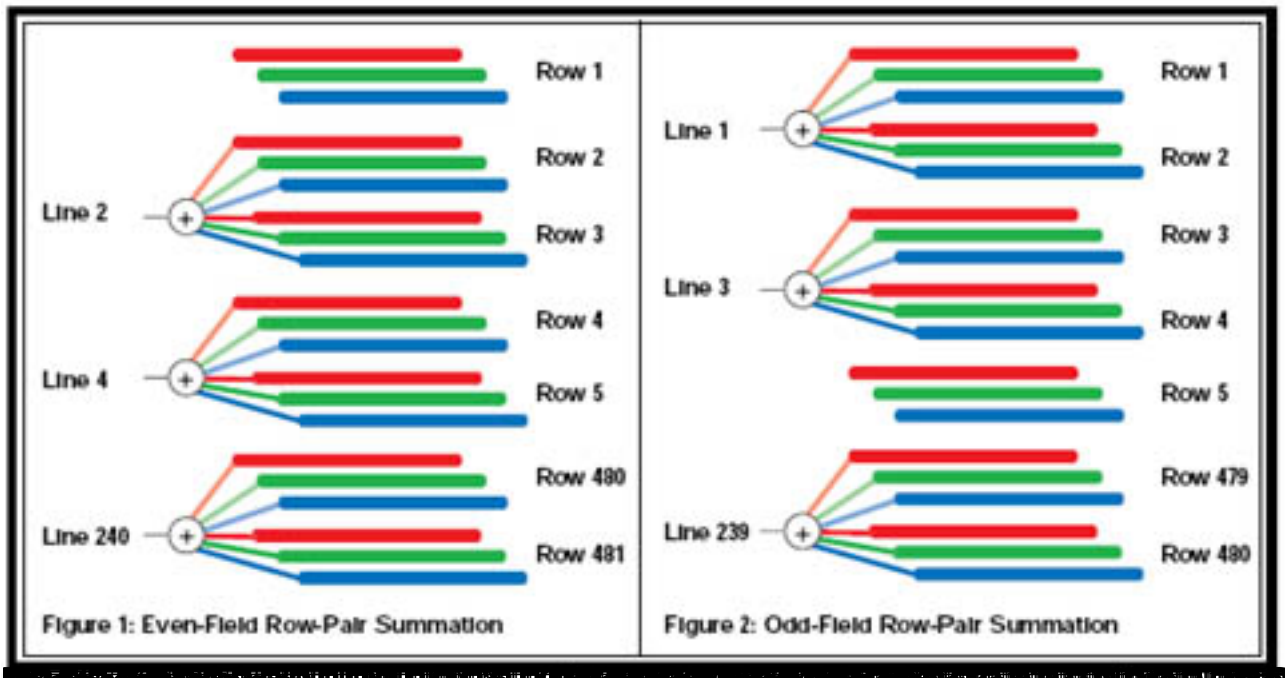
{pub}** Please Login to read more ... {/pub} {reg}

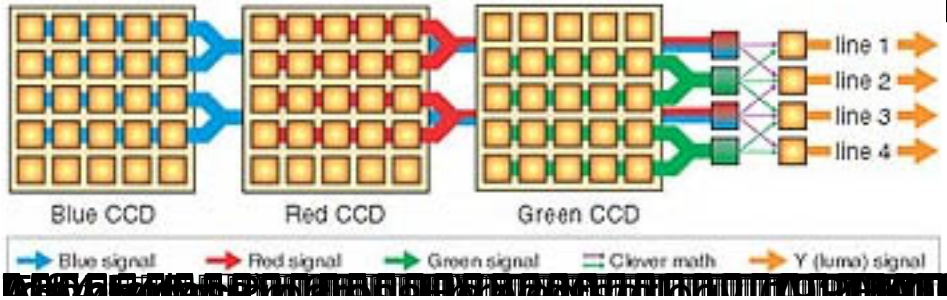
(CCD Scanning)

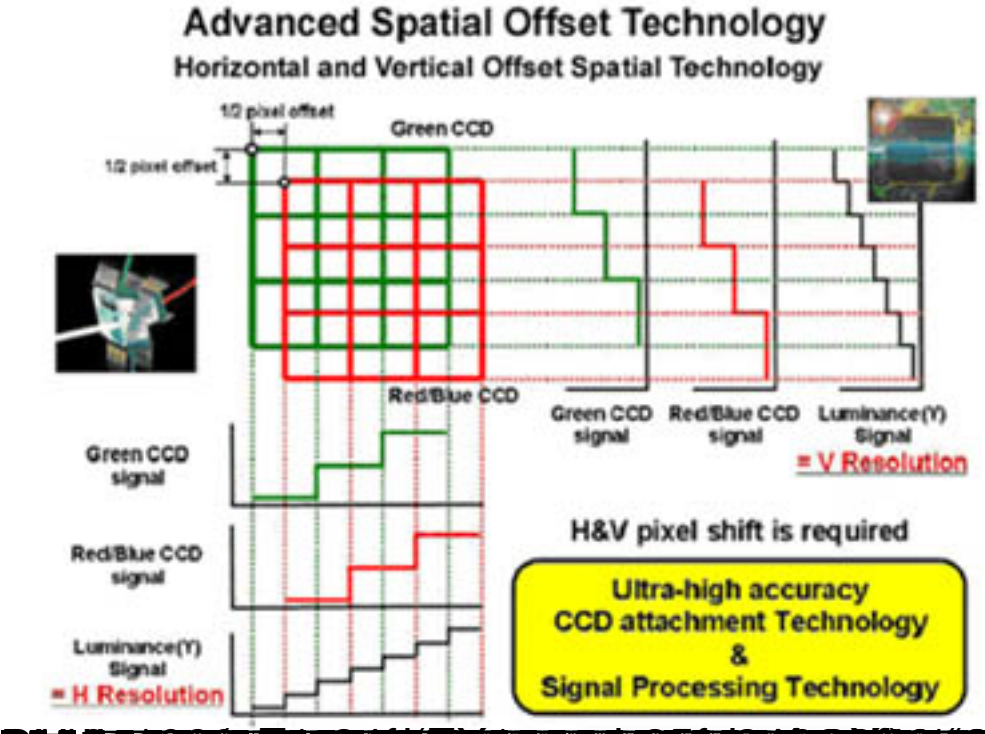
(scan) DVM (image sensor) (CCD: Charged-couple device) (CMOS: Complementary Metal Oxide Semiconductor)


1
3
5
7
2
4
6
8


1
2
3
4
5
6
7
8


Row 1
Row 2
Line 2
Row 3
Row 4
Line 4
Row 5
Row 480
Line 240
Row 481
Figure 1: Even-Field Row-Pair Summation
Row 1
Line 1
Row 2
Row 3
Line 3
Row 4
Row 5
Row 479
Line 239
Row 480
Figure 2: Odd-Field Row-Pair Summation


line 1
line 2
line 3
line 4
Blue CCD
Red CCD
Green CCD
Blue signal
Red signal
Green signal
Clever math
Y (luma) signal


Advanced Spatial Offset Technology
Horizontal and Vertical Offset Spatial Technology
1/2 pixel offset
1/2 pixel offset
Green CCD
Red/Blue CCD
Green CCD signal
Red/Blue CCD signal
Luminance(Y) Signal
= V Resolution
Green CCD signal
Red/Blue CCD signal
Luminance(Y) Signal
= H Resolution
H&V pixel shift is required
Ultra-high accuracy
CCD attachment Technology
&
Signal Processing Technology