

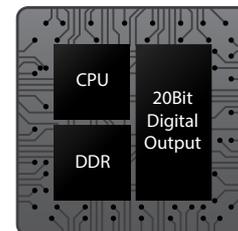
EN773e chip

The world's most advanced HD-ISP



EN773e. It's even more than what meets the eye. Colors are more vibrant. Image is rich with detail. Wide dynamic range. Adaptive noise reduction in low light. Auto white balance and motion detection. Regardless of the environment, the EN773e will bring high quality images of amazing brilliance.

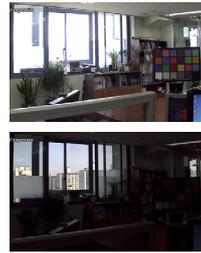
The ultimate all-in-one. One powerful ISP. Embedded CPU, DDR memory, ADC and DAC make EN773e the world's most powerful all-in-one yet.



Variable sensors. Variable connections. Parallel / sub-LVDS / HiSpi interface is built in, so you can use plenty of sensors such as SONY, Panasonic, OmniVision, and Aptina. EN773e offers up to 3 mega pixel CMOS sensor.

WDR (Wide Dynamic Range)

WDR function extends dynamic range of image by composing each differently exposed image. It repeatedly applies long exposure and short exposure for every frame. It applies adaptive tone mapping algorithm to establish linearity among these two images. Maximum dynamic range is 93dB.



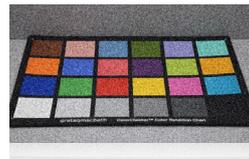
Normal



WDR

3D-DNR (Digital Noise Reduction)

3D-DNR reduces noise by amplifying gain in low light. The DNR function has pattern adaptive 2D noise filter to reduce spatial noise and temporal noise, and 3D noise filter to reduce random noise. 2D and 3D noise filter operates adaptively according to environment, to reduce ghost effect in moving objects.



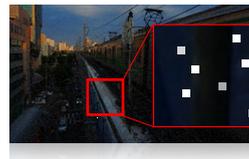
Normal



DNR on

Live Defect Correction

This function corrects defects in low light. The live defect correction function also corrects directional effect. It detects defects in image patterns and corrects them accordingly. Defect correction function is powerful as it uses edge direction.



Normal



Defect correction on

High Light Compensation

High light compensation keeps suitable brightness levels in background image. It does not respond to high-light objects once the brightness level is pre-set. High light areas can be masked by pre-set levels and colors. It makes the image in the high-light region to become dark. User can set brightness limit of high-light in 3 simple steps.



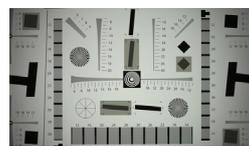
Normal



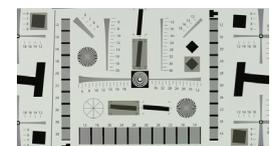
HLC on

Lens Shading Compensation

It compensates for the dark area created by the outline of the lens. Compensation uses 2D gain table. Users can control 0 ~ 100% compensation rate according to shading weight.



Normal



LSC on

De-fog

De-fog compensates for foggy image. It automatically controls contrast ratio by spatially analyzing the histogram characteristics. Thus, the De-fog function automatically operates in foggy environments.



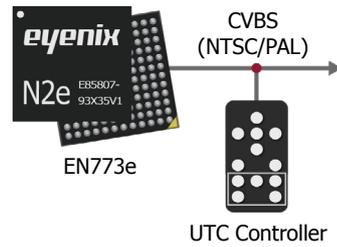
Normal



De-fog on

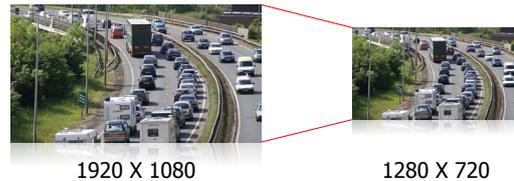
Mega Analog Application

EN773e has high-resolution CVBS analog output using a 1.3 mega pixel CMOS image sensor. It is also convenient to change CVBS output mode between NTSC and PAL, and it has special functions of WDR, Intelligence, 3DNR, Coaxial Communication (UTC) and View angle mode.



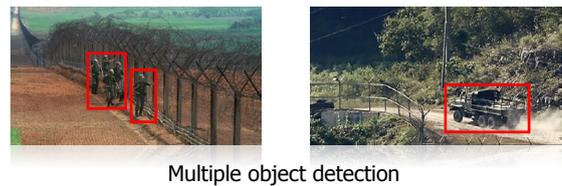
Down Scaler

The Down Scaler function scales down final output image. Especially, it can scale down 1080p to 720p. This function reduces edge distortion when down scaled.



Motion Detection & Alarm

This function detects and displays the object in motion. It stores background image in frame buffer, and it detects foreground area by the difference between background and input image. The minimal pixel size for detection is 32x32. Users can apply intelligence through ID management.



Anti Saturation

This function automatically controls brightness for saturated near object from IR light. It prevents saturation and expands dynamic range. Also saturation level can be controlled.



Privacy / Box / Font OSD

EN773e has maximum 32 privacy zones. Additionally, also it can be used to variable purpose boxes OSD. Font size is 16x24 pixels. Users can easily develop multi-language support.

