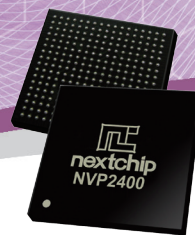


Megapixel CMOS ISP NVP2400



Our brand new megapixel CMOS sensor ISP, NVP2400, uses groundbreaking technology to offer improved image quality. This ISP uses all of our extensive experience in video surveillance industry to offer a level of image processing not previously possible in other ISPs. It supports most of the output formats for full HD IP camera, HD-SDI(HD CCTV) and high-end analog CCTV application.

It performs outstanding image processing with embedded fast 8051 MCU and SDRAM. It provides the stable and high quality video output which is suitable for security camera. It receives 12bit parallel or sub-LVDS CMOS sensor inputs and provides BT.656, BT.1120, YC 16bits and composite video outputs.

In addition NVP2400 provides various customized security camera functions. These include 3D-NR, high resolution digital zoom, PIP, electronic PTZ, day & night, frame rate conversion(FRC), flicker suppression, high light compensation(HLC/BLC), privacy zone masking, motion detection, IRIS control I/F, OSD, etc.

Features

- Full HD CMOS sensor support
- Programmable AE/AWB/AF detection
- 3D-NR (noise reduction)
- Smart NR (3D-NR+motion detection)
- ACCE (D- WDR)
- D-Zoom/PIP/E-PTZ
- Low shutter (up to x60)
- Dead pixel compensation (live/static)
- Defog
- User defined OSD (SD/HD)



Specifications

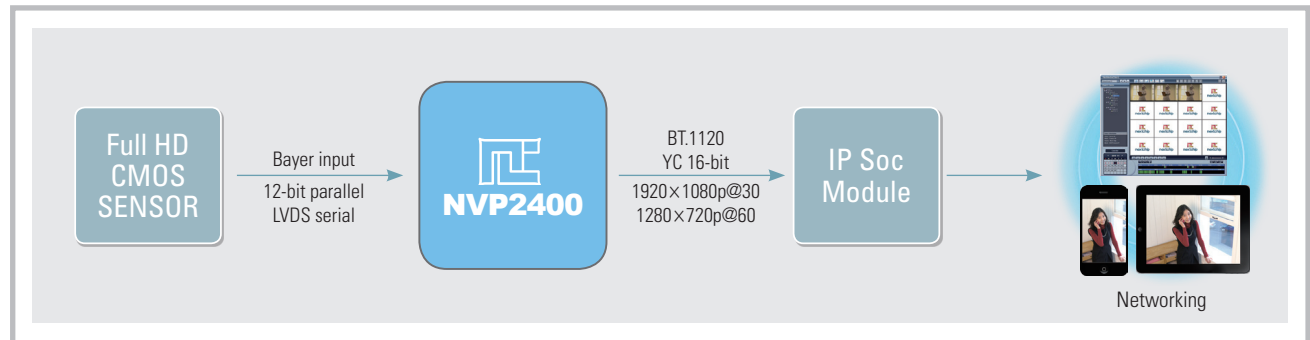
Input I/F	• 1.3M/2M pixel CMOS sensor bayer input (Support up to 5M pixels @ 1920×1080p crop) • 12bit 30fps-parallel/60fps-serial @ SXGA • 12bit 30fps-parallel/serial @ 1920×1080p • 4pixel mixture(binning) mode(VGA) • Long/short combined 10bit YUV input
Output I/F	• BT.656 / BT.1120 / YC16bit • Supports HD-SDI interface 1920×1080p@30 1920×1080i@60 1280×720p@60 • Composite video (720H@27MHz, 960H@36MHz)
Etc	• Operation voltage : 1.2V/1.8V/3.3V • Package : 225-FBGA(13mm×13mm 0.8p)

Applications

- Megapixel IP camera
- HD CCTV (HD-SDI camera)
- 960H analog camera

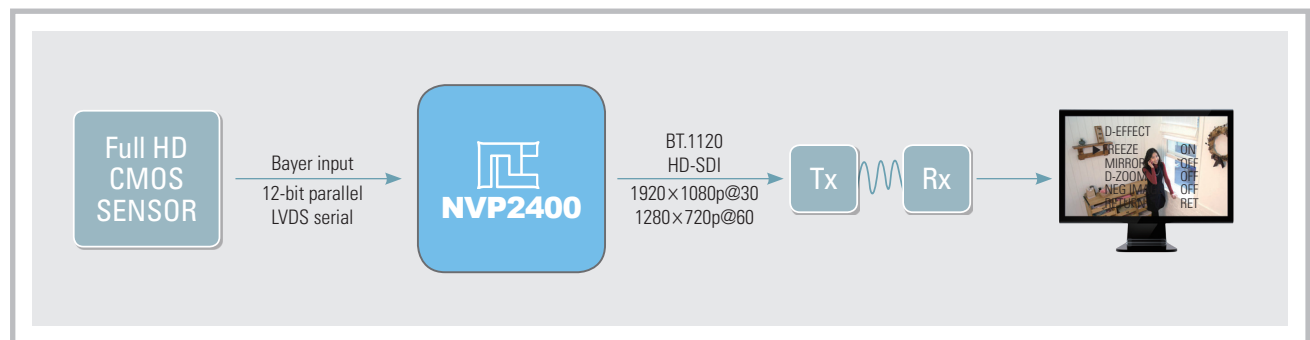
Application Diagram

Full HD IP Camera Application



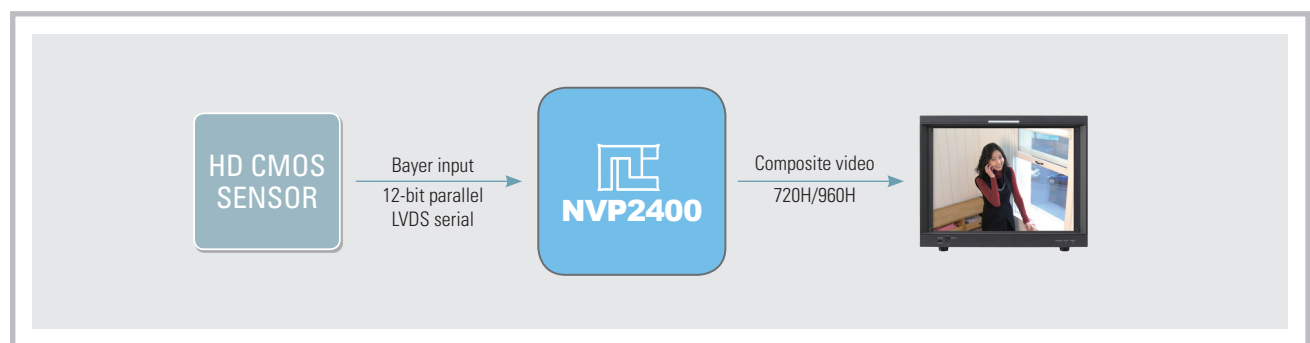
- Through brand new and programmable functions with embedded CPU, makes your systems different and excellent among your competitors who are using same image sensor and SoC.

HDCCTV Application



- Optimized and customized solution for HDCCTV application.

960H Analog Camera Application



- Using cost effective Megapixel CMOS sensor makes high image quality of 960H analog camera. Especially, the broadcast image quality makes you scan more detail images with D-Zoom.