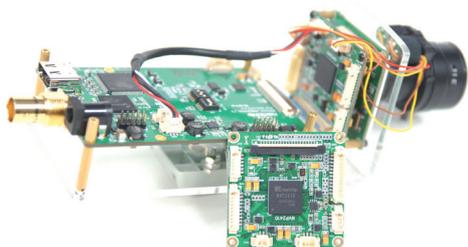


Megapixel CMOS ISP NVP2410



The brand new megapixel CMOS ISP, NVP2410, with state-of-the-art imaging technology, will bring you a whole new world of image quality. It is designed for Full-HD quality surveillance cameras like HD-SDI(HDCCTV) and Full-HD IP cameras as well as highend analog cameras. It supports up to 60 fps Full-HD(1920×1080) input and output, second to none technology in video surveillance industry. For further process, it receives

12-bits parallel or various sub-LVDS CMOS sensor inputs. It supports the most frequent used output formats like BT.656, BT.1120, YC 16bits and composite video outputs. It includes groundbreaking and customized functions like N-WDR(Natural Wide Dynamic Range), DIS(Digital Image Stabilization) and Smart NR (motion-adaptive 2D/3D NR). In addition, it offers various customized security camera functions such as High-resolution Digital Zoom, PIP, Electronic PTZ, Day & Night, FRC, Flicker Detection, HLC/BLC, Privacy Polygon Masking, Motion Detection, IRIS control I/F, OSD, enhanced DEFOG, etc.

CAMERA ISP

Features

- Full-HD CMOS sensor support
- Natural-WDR
- 3D-NR(Noise Reduction)
- Smart NR (3D-NR+Motion Detection)
- Enhanced Defog
- DIS (Digital Image Stabilization)
- D-Zoom/PIP/E-PTZ
- Low shutter(up to x30)
- Dead pixel compensation(live/static)
- User defined OSD
- Programmable AE/AWB /AF



Specifications

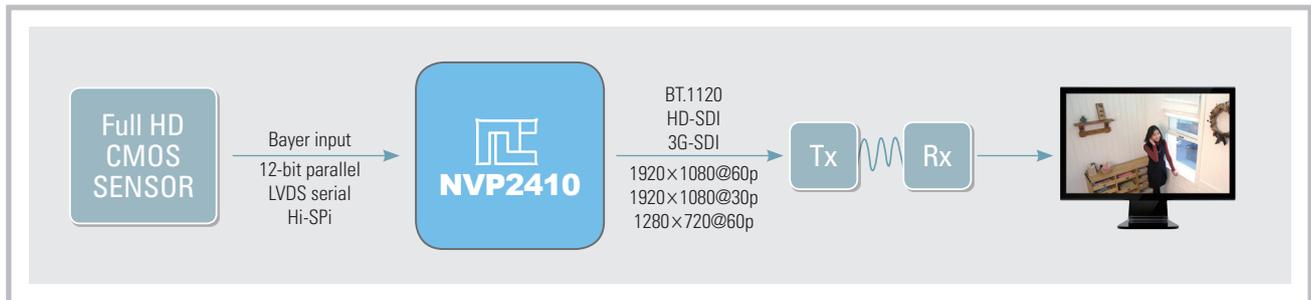
Input I/F	<ul style="list-style-type: none"> • 1.3M/2M pixel CMOS sensor bayer input • 12bit 60fps-parallel/serial @ 1920x1080p • 60fps Hi-SPi IF @ 1920x1080p • 10bit YUV input
Output I/F	<ul style="list-style-type: none"> • BT.656 / BT.1120 / YC16bit • Supports 3G-SDI interface (1920x1080@60p) • Supports HD-SDI interface (1920x1080@60i/1920x1080@30p, 1280x720@60p) • Composite video (720H, 960H)
Etc	<ul style="list-style-type: none"> • 1.2V/1.8V/3.3V • Package : 196-FBGA(12mm×12mm 0.8p)

Applications

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

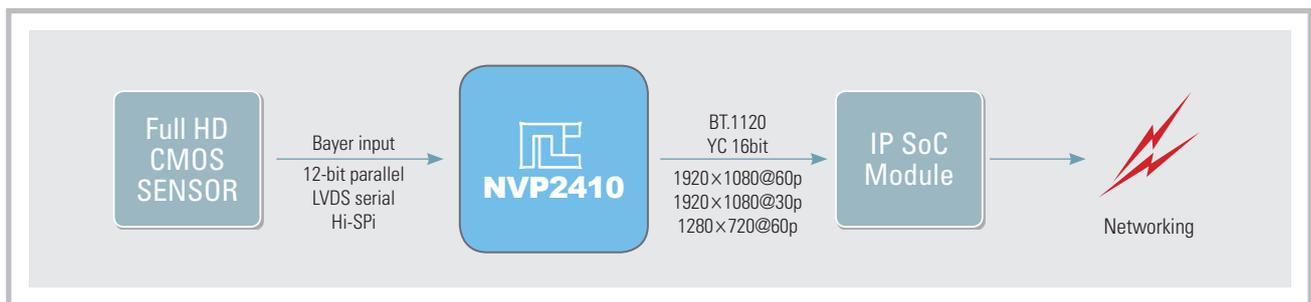
Application Diagram

● HDCCTV / 3G-SDI Application



- Optimized and customized solution for HDCCTV application.
- Optimized and customized solution for 3G-SDI application.

● Full HD IP Camera Application



- Provide a differentiated product among your competitors who are using same image sensor and SoC, through programmable functions and creating new functions by embedded CPU.

● NVP2410 Major Features

