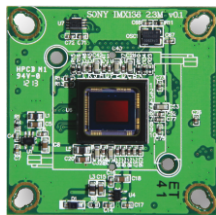




Appro Photoelectron-IP Camera Reference Design

DM385IPNC-IMX136 @U.S.\$1000

H.264 high profile 1080p at 30fps



The new reference design based on TI DM385 and Sony's 2.3M Exmor CMOS IMX136 with following features :

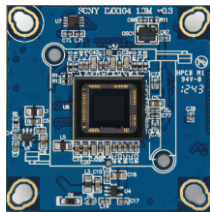
- Sony's new **2.3M pixels** CMOS sensor quality superior to surveillance CCD
- TI's new platform DM385 with excellent performance
- High resolution 1920*1080 30fps H.264 output
- Very good **color** low light up to **0.05 Lux**
- Appro's advance **100 dB WDR** technique inside
- H.264 , MPEG4 and MJPEG triple stream



Appro Photoelectron-IP Camera Reference Design

DM368IPNC-IMX104 @U.S.\$1000

H.264 high profile 720p at 30fps



The new reference design based on TI DM368 and Sony's 1.3M Exmor CMOS IMX104 with following features :

- Sony's **1.3M pixels** CMOS sensor quality superior to surveillance CCD
- TI's new platform DM368 with excellent performance
- High resolution 1280*1024 H.264 output
- Very good **color** low light up to **0.05 Lux**
- Appro's advance **100 dB WDR** technique inside
- H.264 , MPEG4 and MJPEG triple stream



DM385IPNC-IMX136

- Platform :TI TMS320DM385(1GHz)
- Sensor : Sony 2.3M Exmor sensor(IMX136)
- Highest resolution : 1920 × 1080

DM368IPNC-IMX104

- Platform :TI TMS320DM368(432MHz)
- Sensor : Sony 1.3M Exmor sensor(IMX104)
- Highest resolution : 1280 × 1024

Sensor

- Active array size : 1936x1216
- Temperature range:
operating : -10°C to 60°C
stable image : -10°C to 60°C
- Len size: 1/2.8"
- Pixel Size : 2.8um x 2.8um
- Package dimensions : 12.8mm x 11.6mm

- Active array size : 1296x1041
- Temperature range:
operating : -10°C to 60°C
stable image : -10°C to 60°C
- Len size: 1/3"
- Pixel Size : 3.75um x 3.75um
- Package dimensions : 12.8mm x 11.6mm

Min illumination

- Color : 0.05 lux @ F1.4
- B/W : 0.01 lux @ F1.4
- More than 100dB WDR
- 2D/3D Noise Filter

Video

- Lens : C/CS mount
- Iris type : DC-Auto or Manual
- AWB range : AWB Wide(2000~10000K), AWB Normal(4000~6500K), SUNNY, SHADOW, INDOOR, LAMP, FL1, FL2
- AES : 1/30~1/10000
- System : NTSC/PAL
- Configuration : **Linear and double shutter WDR** , Brightness, Contrast, Frame rate priority, Quality priority, AWB, Sharpness, Saturation, Denoise, EV compensation
- Motion Detection : 3 levels
- Compression : H.264/MPEG4/MJPEG (Triple streaming)

Network

- Interface : Ethernet (RJ-45 wired , 10/100 base-TX)
- Protocols : TCP/IP,DHCP,HTTP,UDP,UPnP,FTP,SMTP,RTP

Software

- Web-browser - Microsoft IE 6.0 or above
- Development tools - SDK
- Security - Multiple-users

Connectors

- Video output : 1.0Vpp , 75ohm , composite , negative , BNC*1
- Alarm I/O : 1 input / 1 output
- Serial port : RS-485
- SD card : Alarm / scheduled recording / update

Audio

- Built-in microphone : μ law , 8KHz sample rate
- USB : configuration
- Reset : factory default

Others

- LED indicator : Power / Network
- Firmware update : upgrade with SD/HTTP
- Power requirement : DC 12V(AC 110V / PoE), AC 24V
- Operation Temperature : 0°C~50°C
- Dimension : 60(W) × 45(H) × 87(L) mm
- Accessories : Power adapter × 1, RS-232 wire × 1, Ethernet wire × 1

Resolution

H.264 1080P 30fps	H.264 1280x1024 30fps
MPEG4 1080P 30fps	MPEG4 1280x1024 30fps
JPEG 1080P 30fps	JPEG 1280x1024 30fps
H.264 SXGA 30fps	H.264(1280x1024 30fps)/H.264(CIF)/G.711 dual streaming
MPEG4 SXGA 30fps	H.264(1280x1024 30fps)/JPEG(VGA)/G.711 dual streaming
H.264(720P)/H.264(CIF)/G.711 dual streaming	H.264(D1)*2 dual streaming
H.264(720P)/JPEG(VGA)/G.711 dual streaming	MPEG4(1280x1024 30fps)/MPEG4(CIF)/G.711 dual streaming
H.264(D1)*2 dual streaming	MPEG4(1280x1024 30fps)/JPEG(VGA)/G.711 dual streaming
MPEG4(720P)/MPEG4(CIF)/G.711 dual streaming	H.264(1280x1024 30fps)/JPEG(VGA)/H.264(CIF)
MPEG4(720P)/JPEG(VGA)/G.711 dual streaming	/G.711 triple streaming
H.264(720P)/JPEG(VGA)/H.264(CIF)/G.711 triple streaming	MPEG4(1280x1024 30fps)/JPEG(VGA)/MPEG4(CIF)
MPEG4(720P)/JPEG(VGA)/MPEG4(CIF)/G.711 triple streaming	/G.711 triple streaming

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