

Liberty Imaging is upgrading its HDTV capable Complementary Metal-Oxide Semiconductor, Active Pixel, imaging System on Chip (CMOS) single chip digital color camera. This American innovative upset technology is poised to replace aging critical security applications and enter new markets. This US manufactured product draws just 4.0 watts making the **LIBERATOR**[®] decidedly **GREEN**.

HDTV-1080p Digital Video Camera



2nd Generation FPGA Prototype



1st Generation Product in Development,

FEATURES

TECHNOLOGY:

- 1/3" 1920H X 1080V CMOS iSoC, Aptina AR0331 Sensor **"New"**
- Pixel Dynamic Range 120dB **"Improved"**
- 16 X 9 widescreen display
- Texas Instruments Advanced DSP

DIGITAL VIDEO OUTPUTS:

- Power over Ethernet, (PoE),
- 4G-LTE-WiMAX Connectivity **"New"**
- Audio Microphone
- H.264 Compression
- IP Networking Capable
- IPv4 internet protocol, upgradable to IPv6
- Video or Snapshot mode **"New"**

COLOR:

- Recommendation ITU-R BT.709
- Color Corrected

POWER:

- 5V DC
- Power consumption, 4 Watts (PoE)

SMALL FORM FACTOR:

- Rugged aluminum enclosure (sans lens)
- 3.75" (L) X 2.5" (W) X 2.0" (H)
- Weight: TBD (10 to 12oz.)
- Modular design
- Operating temp -20 to +70C **"Improved"**

FORMATS (SWITCHABLE)

- HD 720p "1-MegaPixel" 30/25fps (SMPTE-296M)
- SD 480p 60/50fps (SMPTE 259M)

PROGRAMMABLE DIGITAL PROCESSING:

- Analytics Daughterboard **"New"**
- 64GB Ultra Secure SDXC Memory Card **"Upgrade"**
- Advanced Auto-gain control **"Improved"**
- Encryption, Counterfeit parts Protected **"New"**
- RGB Bayer De-Mosaic interpolation
- Auto White and Black balance
- Adjustable gamma
- Camera-ID
- Diagnostics
- Facilitates prevent-deter analytics, security and surveillance systems
 - Facial Recognition, Person Recognition
 - Quality of Service (QoS) performance

APPLICATIONS:

- At the edge analytics
- Security and Surveillance
- Human and veterinary diagnostics / internal surgery, Potential EMS wireless triage
- Automated manufacturing
- Retail theft prevention
- Monitoring people flow and sales analytics
- Precision farming

The **LIBERATOR**[®] is coming!