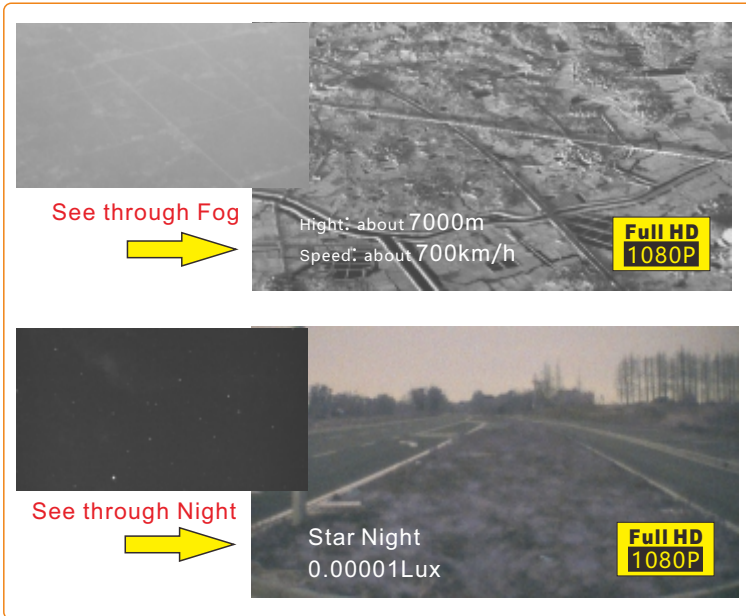


Multi-spectrum, Opto-Electronics Smart Image Correction, Infrared extended, Super Low Light EL3 Imaging Color HD Camera

NexGenX L3X-57



4 Filters for Day/Night/Fog/Laser



Key Features

- Super-high sensitivity $0.8e^{-}$ read noise
- 85dB dynamic range
- Real time automatic image enhancing
- 2/3" type internal multi sampling circuit
- 7.1umX7.1um pixel pitch
- 1080P resolution with HD-SDI output
- Efficient Size, Weight and Power(SWaP)
- 4 Filters for day/night/fog/laser conditions and mode saving

Turn night into day and help to see through smog, smoke, haze and fog

Specifications

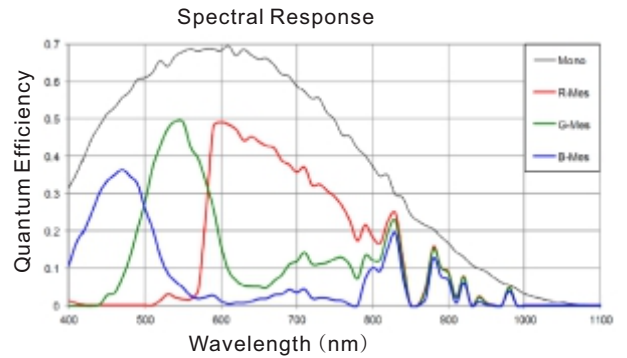


Image Sensor	EL3 Imaging Sensor
Pixel size	7.1um x 7.1um
high sensitivity	from the visible to the near-infrared (400 nm – 1100 nm)
Video output	HDSDI and VBS
Scene illumination	1.E-5 lux to 15,000 lux
Minimum illumination	0.0001 lx (AGC 36dB color), 0.00001 lx (AGC: 36dB B/W) Video output 25IRE, AGC ON, Lens Iris F0.95
Integral multi sampling S/N	64 times STD 52dB (Minimum 48dB) AGC off, Gamma 1.0, Enhance Off
Auto Exposure	1/30 ~ 1/30,720(sec) for NTSC, 1/25 ~ 1/25,600(sec) for PAL
Filters	4 Filters(day, night, fog, laser)
Mode saving	Mode saving
Dynamic Range	85dB
Auto Iris	DC or BT auto iris
AGC	ON(STD 30dB, Max 36dB) / OFF
Communion	PELCO D 485 camera control
Power source	Input Voltage 14-21VDC
Consumption current	350mA
Operation tempera	-20°C ~ +55°C
Outside dimension	62.5L*44.5W*75H(mm)
Weight	<math><275g</math>

Applications

- Low light level imaging (optimized for mobility)
- High end 24 hr/7day surveillance
- Multi-laser spotting and tracking
- Imaging through harsh atmospheric conditions
- SWaP integration into UAVs, handheld, and helmet-mounted systems

Multi-spectrum, Opto-Electronics Smart Image Correction, Infrared extended, Super Low Light EL3imaging Color HD Camera

NexGenX L3X-57

Super Night Vision 1.0E-5Lux	Fog Reduction Optical/DSP	4 Filters (Day/Night/ Fog/Laser)	HDSDI & VBS output	Automatic Image Enhancing
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Latest Low Light Level Imaging System Control Technology (Wired or Wireless)

Various Combinations of System Parameters

Camera: 4 Filters, DSP AIE, DSP FR*, Electric Shutter Speed... ..
 Lens: Iris (Stepping Motor Iris) Zoom/Focus Preset,
 Laser: Angle/Intensity Preset



into Different Modes for Various Applications

1. Day Mode
2. Night Mode
3. Fog Reduction Mode
4. WDR Night Mode
5. Suburban Mode
6. Completely Dark Mode
7. City Night 50km/h Number Plate Mode
8. City Night 100km/h Number Plate Mode

Mode Called Out

HD digital Low Light Level EL3imaging camera system is the future of night vision

Future: iL3Vision camera	Low Light Level imaging			HD night vision	IngaAs	Thermal
	iccd	emccd	scmos	iL3Vision	swir	thermal
sensitivity covering	400-800nm	400-900nm	400-1100nm	300-1100nm	1.2-1.7um	5-9/12-16um
Sensitivity(Lux)	1.E-04	1.E-04	1.E-04	0.00001 best		
Wide Dynamic Range	bad	bad	good	good	NG	NG
Resolution	bad	bad	good	good	NG	NG
4filters and Automatic Image Enhancing	no	bad	no	good	NG	NG
Cooled		needed	no need	no need	NG	NG
Analoge out put	bad	analoge	HD digital	HD digital	NG	NG
Life time	defected easily		good	good		
Price size w eight pow er consumption	bad	bad	good	good	NG	NG

HD/Full HD is a clear trend. Digital Night Vision, a shift from analog to digital night vision devices will soon be possible, yielding the prospect of capturing and sharing color video among soldiers. It could also be fused together pixel-by-pixel with thermal imaging.