



## RT-EMCCD cameras for Surveillance and Night Vision

Retriever Technology offers the first fully automatic, non-intensified, 24-hour surveillance camera. Using the latest Electron Multiplying CCD technology, The RT-EM Series cameras enable excellent images to be obtained in light levels from full sunlight down to starlight, without image intensifiers.

In addition the camera incorporates the proven Gain Management System, providing a "set and forget" mode of operation, allowing 24 hour imaging with a single camera. Rapid network integration is enabled with Gigabit Ethernet connectivity, while legacy systems can utilize the optional analog output.

Designed in keeping with the philosophy to provide the optimum customer interface the camera is small, lightweight and operator friendly. It is available in both cased and module form to maximize system integration.



Overcast night + reflected building lights  
at 120 m with 1750mm lens.

### Camera Data

- ❖ 1000x intensified performance without the disadvantage of an intensifier
- ❖ Solid-state EMCCD with built-in amplification
- ❖ 500 mV/ lux /sec sensitivity
- ❖ GigE/Analog output
- ❖ 24 hour operation with a single camera
- ❖ Gain Management System with adjustable Peak/Average response, plus sampling window
- ❖ Peltier cooled for optimum low light performance
- ❖ Antiblooming
- ❖ Electronic shuttering
- ❖ Auto Iris output
- ❖ Full automatic operation
- ❖ 12 V DC power
- ❖ No Export Restrictions

## Camera Head Specifications

	<b>RT-EM-253M</b>	<b>RT-EM-247C</b>	<b>RT-EM-285M</b>
<i>Gain</i>	1000x	1000x	1500x
<i>Imager Type</i>	Frame Transfer	Frame Interline Transfer	Frame Transfer
<i>Color/Monochrome</i>	Monochrome	Color	Monochrome
<i>Format</i>	656x496	658x496	1004 x 1000
<i>Pixel Size</i>	7.4 $\mu\text{m}$	10.0 $\mu\text{m}$	8.0 $\mu\text{m}$
<i>Frame Rate</i>	30 unbinned > 100 binned	30 unbinned > 100 binned	25 unbinned > 100 binned
<i>Electronic Shutter</i>	1/30 s – 1/2000 s	1/30 s – 1/2000 s	1/30 s – 1/5000 s
<i>Digital Output</i>	Gigabit Ethernet	Gigabit Ethernet	Gigabit Ethernet
<i>Analog Output</i>	On request	On request	On request
<i>Auto Iris</i>	Yes	Yes	Yes
<i>Lens Mount</i>	C/CS-Mount	C/CS-Mount	C/CS-Mount
<i>Sync</i>	Internal/External	Internal/External	Internal/External
<i>Auto Shutter, AGC</i>	Yes	Yes	Yes
<i>Power Supply</i>	12-36 VDC	12-36 VDC	12-36 VDC

- Advanced feature detection and alarming software available
- Custom form factors
- MilSpec available
- No export restrictions
- Extremely cost competitive  
> 3x cost savings over IR and ICCD

For more information  
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