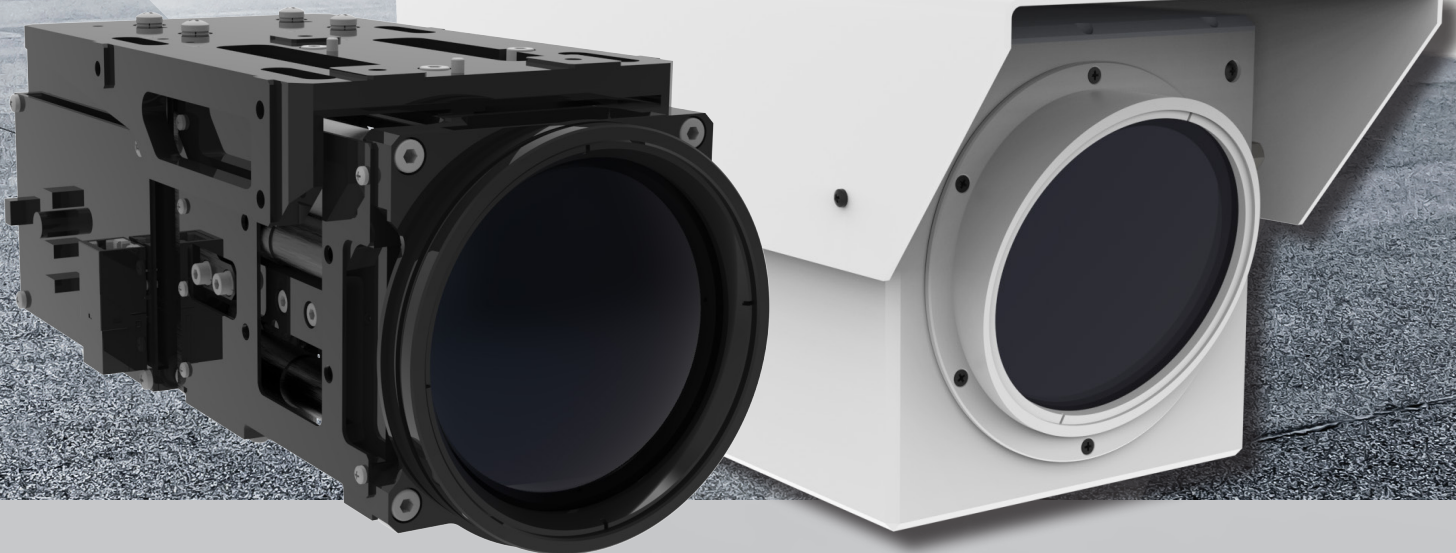
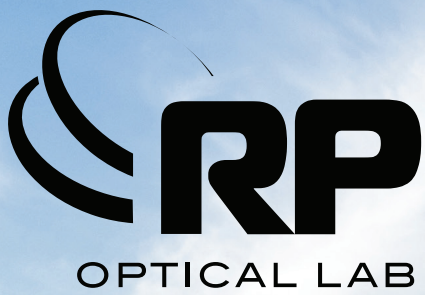




LRC3Z-Series

MWIR Continuous zoom cooled thermal imaging camera / core

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MWIR Continuous zoom cooled thermal imaging camera / core

LRC3Z is a series of continuous-zoom, high-performance thermal cameras suitable for medium to very long -range Homeland Security, Search & Rescue, Industrial, and Commercial purposes in Land, Sea, and Airborne applications. Delivered as open frame or in a sealed enclosure. Equipped with a high resolution 640x512 pixels, 15µm pitch focal plane array.

A selection of continuous zoom lenses:

F/4: 15 – 330mm / 25 – 460mm / 30 – 660mm / 36 – 725mm / 40– 825mm

F/5.5: 18 – 275mm / 18 – 430mm / 25-600mm / 36 – 860mm / 45-1075mm / 70-1415mm

RP's proprietary optical designs, laboratories with the latest equipment and highly skilled personnel ensure top level performance and dependability.

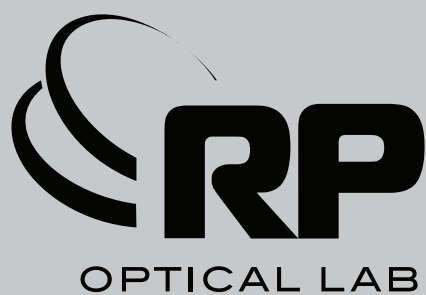
System Main Features:

- Motorized focus/zoom
- Continuous optical + digital zoom
- Auto Focus
- Focus maintained while zooming through temperature changes
- Unique zoom module with zero optical artifacts
- Multiple 2-point NUC, Optical NUC & 1 point NUC
- Image enhancement including local DRC
- Digital + Analog video outputs
- Ethernet and Serial control
- Dry nitrogen backfilled (sealed version)



System																
Video Format					Analog + Digital SD-SDI / Camera link											
Communication Protocol					RS-232 or RS-422 Full Duplex											
Power Requirements					24 – 32VDC, 35W Average nominal power											
Controls					Fully Remote controlled / Serial + Ethernet											
Digital Zoom					X1.5 / X2 / X4											
Total Weight					In Mechanical ICD on request											
External Dimensions					In Mechanical ICD on request											
Operating / Storage Temp.					-32ºC to +65ºC / -40ºC to +71ºC											
Shock and Vibrations					Per applicable standards											
Sealing					Open frame or sealed IP66/IP67 available on request											
Sensor																
Detector FPA					640x512 pixels See ordering information below											
Sensitivity					≤ 25mK Please consult for better sensitivity											
Optical																
F#					F/4.0 or F/5.5											
Spectral Range					MWIR 3 – 5 µm											
Ordering Information					LRC3Z-Y ("Y"-Optics)										Optics	
HFOV	15–330mm F/4.0				1.7° x 35°								C330			
	25–460mm F/4.0				1.2° x 22°								C460			
	30–660mm F/4.0				0.9° x 18°								C660			
	36–725mm F/4.0				0.77° x 15°								C725			
	40–825mm F/4.0				0.65° x 14°								C825			
	18–275mm F/5.5				0.75° x 18°								D275			
	18–430mm F/5.5				1.3° x 30°								D430			
	25–600mm F/5.5				0.95° x 21°								D600			
	36–860mm F/5.5				0.6° x 15°								D860			
	45–1075mm F/5.5				0.5° x 12°								D1075			
	70–1415mm F/5.5				0.4° x 8°								D1415			
Range Perfomance					Please consult RP for other available lens options											
Model	C330		C660		C725		C825		D430		D860		D1075			
Target	Human	Vehicle	Human	Vehicle	Human	Vehicle	Human	Vehicle	Human	Vehicle	Human	Vehicle	Human	Vehicle		
Detection	11	18.1	14.7	19.6	15.7	20.4	16.5	21.1	13.1	19.1	16.4	21	17.1	21.5		
Recognition	3.6	7.5	6.3	11.1	7.5	13	8.5	14.5	4.6	9.0	8.2	13.5	9.1	14.5		
Identification	1.7	4.2	3.0	7.5	4	8.9	4.7	9.9	2.3	5.5	4.7	9.1	5.3	9.9		

* All listed values are correct to within 10% accuracy (assumes ΔT of target 2°C and atmospheric attenuation of 0.65 db/km)



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