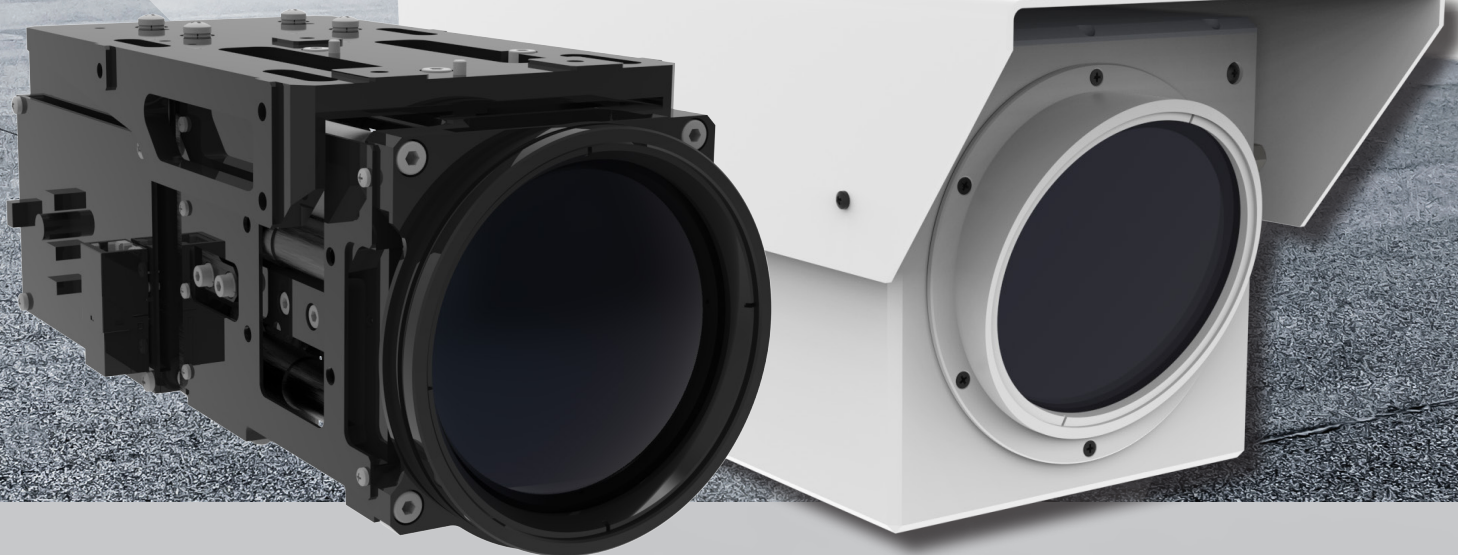
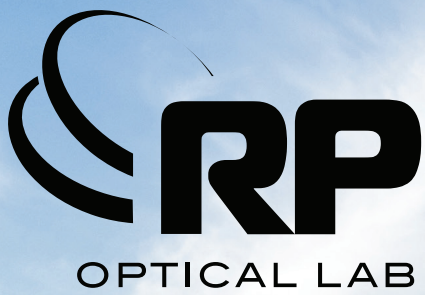




LRC3Z HD10-Series

MWIR HD Continuous zoom cooled
Thermal imaging cameras

LRC3Z-HD10-Series

MWIR HD Continuous zoom cooled Thermal imaging cameras

LRC3Z-HD-10 is a series of High-Definition continuous-zoom, top-performance thermal cameras suitable for medium to very long-range Homeland Security, Search & Rescue, Industrial, and Commercial purposes in Land, Sea and Airborne applications.

A selection of Continuous zoom lenses:

F/4.0 options: 18-250 / 18-330 / 18-400 / 38-660 / 40 – 600 / 40-800 / 40-1000/ 70-1200

F/3.4 options: 18-340 / 20 – 300 / 40-680

*Focal length in mm

- Equipped with the latest 3-5 μ m waveband 1280 x 1024/720 pixels, 10 μ m pitch focal plane array.
- Open frame or rugged, environmentally sealed enclosure backfilled with dry nitrogen.

RP Optical Lab provides leading-edge IR equipment. RP's proprietary optical designs, and state-of-the-art laboratories ensure maximum performance and dependability.

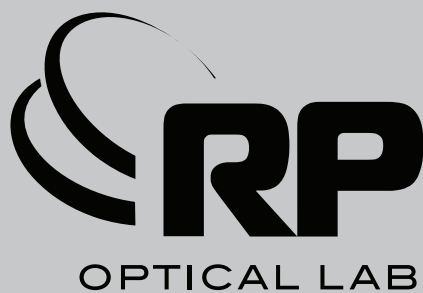
System Main Features:

- Continuous optical zoom + digital zoom
- Focus maintained thru zoom and wide temperature ranges
- Auto Focus
- Zero optical artifacts
- Multiple 2-point NUC, optical NUC & "1 point NUC Calibration"
- Latest Thermal Image processing features
- Ethernet and Serial Control
- Digital output options – HD-SDI / Camera link
- Dry nitrogen backfilled (sealed version)



System																		
Video Format				720P / 1080i (Analog + HD-SDI / Camera link outputs)														
Communication Protocol				Ethernet / RS-232/RS-422														
Power Requirements				Power 24 – 32VDC, 35W Average nominal power														
Controls				Fully Remote controlled														
Digital Zoom				X1.5 / X2 / X4														
Focus Control				Manual / Automatic														
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				IP66 / IP67 available upon request														
Sensor																		
Detector FPA				1280x1024/720 pixels, 10µ pitch														
Sensitivity				≤ 30mK / Please consult for better sensitivity														
Cooler Lifetime				10,000 hours standard / 20,000 hours on request														
Optical																		
F#				F/3.4 or F/4														
Spectral Range				MWIR 3 – 5 µm														
Ordering Information				LRC3Z-HD10-Y ("Y"-Optics)								Optics						
HFOV	18–250mm F/4.0			3° → 39° (Zoom ratio x 13.8)								A250						
	18–330mm F/4.0			2.3° → 39° (Zoom ratio x 18.3)								A330						
	18–400mm F/4.0			1.9° → 39° (Zoom ratio x 22.2)								A400						
	40–600mm F/4.0			1.21° → 18° (Zoom ratio x 15)								A600G						
	38–660mm F/4.0			1.1° → 19° (Zoom ratio x 17.3)								A660						
	40–800mm F/4.0			0.95° → 18° (Zoom ratio x 20)								A800						
	40–1000mm F/4.0			0.74° → 18° (Zoom ratio x 22)								A1000						
	70–1200mm F/4.0			0.65° → 10° (Zoom ratio x 17)								A1200						
	20 – 300 F/3.4			2.4° → 36° (Zoom ratio x 15)								B300						
	18–340mm F/3.4			2.1° → 39° (Zoom ratio x 18.8)								B340						
40–680mm F/3.4			1.1° → 18° (Zoom ratio x 17)								B680							
Range Performance																		
Model	A250		A330		A400		A660/600		A800		A1000		A1200		B340/300		B680	
Target	Human	Vehicle	Human	Vehicle	Human	Vehicle	Human	Vehicle	Human	Vehicle	Human	Vehicle	Human	Vehicle	Human	Vehicle	Human	Vehicle
Detection	7	17	9.5	19	11	25.5	18	38	23	52	27	64	31	76	9.5	19	19	46
Recognition	3.3	8	4.5	11	5	12.7	8.5	17.8	10	25	13	32	16	38	4.5	11	9	22
Identification	1.8	4.4	2.5	6	2.9	7	4.5	10.5	6	14	7	17.5	9	21	2.5	6	5	12

* All listed values are correct to within 5% accuracy (assumes ΔT of target 2°C and atmospheric attenuation of 0.65 db/km)



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