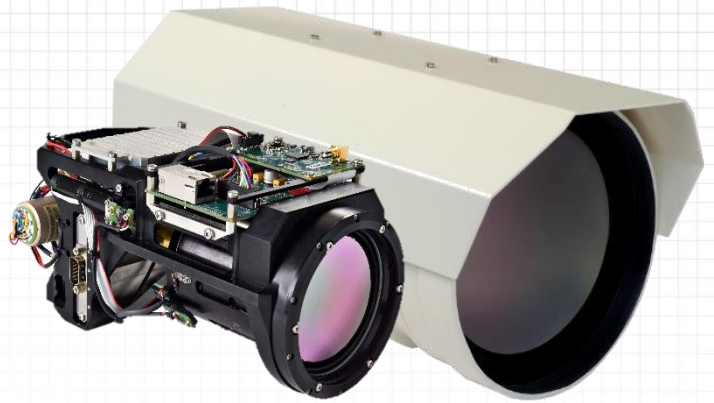


MWIR HD Continuous zoom cooled Thermal imaging cameras

LRC3Z-HD10-Series

LRC³Z-HD-10 is a series of High-Definition continuous zoom, top performance thermal cameras designed for medium to very long-range surveillance 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 / 50-850
*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 to the security and surveillance sectors. RP's proprietary optical designs, and new laboratories, ensure maximum performance and dependability.

SYSTEM MAIN FEATUTES:

- 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)



LRC3Z-HD10 – Series SPECIFICATIONS

PARAMETER	VALUE	NOTES																		
SYSTEM																				
Video Format	720P / 1080i	Analog + HD-SDI / Camera link outputs																		
Communication	Ethernet / RS-232/RS-422																			
Power	24 – 32VDC, 35W	Average nominal power																		
Controls	Fully Remote controlled																			
Digital Zoom	X1.5, X2, X4																			
Focus control	Manual / Automatic																			
Weight		In Mechanical ICD on request																		
External Dimensions		In Mechanical ICD on request																		
Operating / Storage Temp	-32°C to +65°C / -40°C to +71°C																			
Shock and Vibrations	Per MIL-STD-810E	Other MIL standards possible on request																		
Sealing	IP66	IP67 Is available upon request																		
SENSOR																				
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		ORDERING INFORMATION																		
F#	F/3.4 or F/4	LRC3Z-HD10-Y																		
Spectral Range	MWIR 3 – 5 µm	"Y" - 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																	
	50–850mm F/3.4	0.9° → 14° [Zoom ratio x 17]	B850																	
RANGE PERFORMANCE																				
Model	A250		A330		A400		A660/600		A800		A1000		A1200		B340/300		B680		B850	
Range (Km)																				
Target	man	NATO	man	NATO	man	NATO	man	NATO	man	NATO	man	NATO	man	NATO	man	NATO	man	NATO	man	NATO
Detection	7	17	9.5	19	11	25.5	18	38	23	52	27	64	31	76	9.5	19	19	46	23	54
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	11	27
Identification	1.8	4.4	2.5	6	2.9	7.0	4.5	10.5	6	14	7	17.5	9	21	2.5	6	5	12	6	15

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

