

# INNOVATIVE IR IMAGING



LENS CATALOG




LWIR - MWIR - SWIR

# MWIR Zoom Lenses

 High Definition 
  Zero Boresight 
  Light Weight

MODEL		FOCAL LENGTH	F#	FPA	COLD STOP	WEIGHT	DIMENSIONS (Ø x Length)
DOVE 115		  15-115mm Continuous zoom	3.6	640 x 512 x 10µ	12mm	170gr	46 x 67mm
DOVE 170		  25-170mm Continuous zoom	3.6	640 x 512 x 10µ	12mm	270gr	63 x 110mm
DORADO		  25-200mm Continuous zoom	4.0	640 x 512 x 15µ	19-21mm	355gr	77 x 114mm
IR-FLYs		  18-250mm Continuous zoom	4.0	640 x 512 x 15µ	19-21mm	265gr	78 x 91mm
IR-BEE		  20-340mm Continuous zoom	5.5	640 x 512 x 15µ	19-21mm	265gr	78 x 91mm
mRUBY		 18-275mm Continuous zoom	5.5	640 x 512 x 15µ	19-21mm	265gr	63.5 x 73mm
JUNO		  18-275mm Continuous zoom	5.5	640 x 512 x 15µ	19-21mm	220gr	63.5 x 71mm
OPAL		50/250mm Dual FOV	4.0	640 x 512 x 15µ	19-21mm	1.52kg	93 x 115 x 150mm
FOLDED 300 SERIES <sup>2</sup>		20-300mm Continuous zoom	4.0	640 x 512 x 15µ	19-21mm	950gr	92 X 144 x 140mm
MIRACLE 300 <sup>2</sup>		  20-300mm Continuous zoom	4.0	640 x 512 x 15µ	19-21mm	1.05kg	96 X 135 x 143mm
ODEM		 15-330mm Continuous zoom	4.0	1280 x 1024 x 10µ	19-21mm	830gr	96 x 128mm
MERCURY O		  15-330mm Continuous zoom	4.0	1280 x 1024 x 10µ	19-21mm	850gr	96 x 123mm
DIAMOND		18-430mm Continuous zoom	5.5	640 x 512 x 15µ	19-21mm	930gr	96 x 125mm
MERCURY D		 18-430mm Continuous zoom	5.5	640 x 512 x 15µ	19-21mm	950gr	96 x 125mm
ODEM 460		 25-460mm Continuous zoom	4.0	1280 x 1024 x 10µ	19-21mm	2.4kg	135 x 192mm
MIRACLE 600 <sup>2</sup>		  40-600mm Continuous zoom	4.0	640 x 512 x 15µ	19-21mm	3kg	165 X 170 x 219mm

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MODEL	FOCAL LENGTH	F#	FPA	COLD STOP	WEIGHT	DIMENSIONS (Ø x Length)
<b>FOLDED 600 SERIES<sup>2</sup></b> 	40-600mm Continuous zoom	4.0	640 x 512 x 15µ	19-21mm	3kg	165 x 169 x 212mm
<b>DIAM 600</b> 	30-600mm Continuous zoom	5.5	640 x 512 x 15µ	19-21mm	2.4kg	135 x 192mm
<b>ODEM 660</b>  	30-660mm Continuous zoom	4.0	1280 x 1024 x 10µ	19-21mm	2.9kg	206 x 245mm
<b>ODEM 825</b>  	40-825mm Continuous zoom	4.0	1280 x 1024 x 10µ	19-21mm	4.8kg	230 x 270mm
<b>DIAM 860</b> 	40-860mm Continuous zoom	5.5	640 x 512 x 15µ	19-21mm	3kg	206 x 250mm
<b>DIAM 1075</b> 	45-1075mm Continuous zoom	5.5	640 x 512 x 15µ	19-21mm	4.9kg	230 x 270mm
<b>DIAM 1415</b> 	60-1415mm Continuous zoom	5.5	640 x 512 x 15µ	19-21mm	10kg	292 x 496mm
<b>GALAXY</b>  	20-300mm Continuous zoom	3.4	1280 x 1024 x 10µ	19-21mm	1.35kg	100 x 140 x 155mm
<b>IRIS BB330</b>  	18-330mm Continuous zoom	3.0-4.0	1280 x 1024 x 10µ	19-21mm or 28mm	950gr	95 x 125mm
<b>ZENITH</b>  	18-400mm Continuous zoom	3.4-4.0	1280 x 1024 x 10µ	19-21mm	1.35kg	130 x 153mm
<b>ZENITH800</b>  	40-800mm Continuous zoom	3.4-4.0	1280 x 1024 x 10µ	19-21mm	4.2kg	220 x 254mm
<b>IRIS BB660</b>  	40-660mm Continuous zoom	3.0-4.0	1280 x 1024 x 10µ	19-21mm or 28mm	3kg	200 x 220mm
<b>GARNET</b>  	25-400mm Continuous zoom	3.0-4.0	1920 x 1536 x 10µ	28mm	1.25kg	120 x 230mm
<b>PARAGON</b>  	22-480mm Continuous zoom	4.7	1280 x 1024 x 15µ	28mm	1.34kg	120 x 225mm
<b>PARAGON 1200</b>  	57-1200mm Continuous zoom	4.7	1280 x 1024 x 15µ	28mm	6.7kg	273 x 370mm

1-Also available in long BWD (IRIS-P) version, in which a shutter can be added

2-Multiple Folding versions of 90°, 180° for different popular sensors

# LWIR Zoom Lenses








XGA resolution Zero Boresight Light Weight

MODEL		FOCAL LENGTH	F#	FPA	BWD/CS	WEIGHT	DIMENSIONS (Ø x Length)
TOPAZ		22/66mm Dual FOV	1.25	640 x 480 x 17µ	9.27mm	350gr	68 x 60mm
GALIL	 XGA	33/99mm Dual FOV	1.25	1024 x 768 x 17µ	11-14mm	725gr	122 x 106mm
BARKAT		45/135mm Dual FOV	1.1-1.6	640 x 480 x 17µ	9.24mm	1.6kg	98 x 110 x 142mm
CATTY	 XGA	45/135mm Dual FOV	1.3-1.4	1024 x 768 x 17µ	5.5mm	1.5kg	130 x 169mm
TOPAZc	 XGA	18-60mm Continuous zoom	1.4	640 x 480 x 17µ	5.77mm	220gr	70 x 60mm
CEDAR		15-100mm Continuous zoom	1.4	640 x 480 x 17µ	9mm	1kg	115 x 119mm
PECAN		24-105mm Continuous zoom	1.55	640 x 480 x 17µ	18mm	1kg	85 x 120mm
DEKEL		25-150mm Continuous zoom	1.4	640 x 480 x 17µ	12mm	1.2kg	127 x 142mm
KEW		25-225mm Continuous zoom	1.5	640 x 480 x 17µ	17.6mm	3kg	188 x 208mm







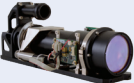








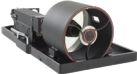
## COOLED

ALDAN Cooled		60-180mm Continuous zoom	2.24	640 x 512 x 15µ	19-21mm	830gr	100 x 105mm
JASPER Cooled		60-240mm Continuous zoom	2.76	640 x 512 x 15µ	19-21mm	830gr	100 x 105mm
TRIF Cooled		40/110/360mm Triple FOV	2.24	640 x 512 x 15µ	19-21mm	3.5kg	174 x 193mm

# LWIR A-Thermalized optically, no focus mechanism Low F#, Fast Lens

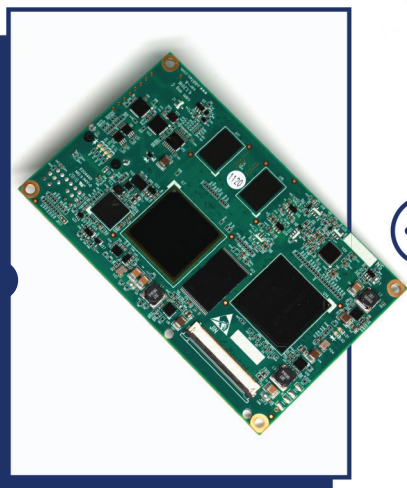
MODEL		FOCUS	FOCAL LENGTH	FOV	F#	FPA	WEIGHT	DIMENSIONS (Ø x Length)
RP042A11		Athermalized	4.2mm	152°	1.1	640 x 480 x 17µ	140gr	85 x 39mm
RP08A085		Athermalized	8mm	124°	0.85	1024 x 768 x 17µ	170gr	50 x 70mm
RP085A10		Athermalized	8.5mm	106°	1.0	1024 x 768 x 17µ	170gr	45 x 65mm
RP12A10		Athermalized	12mm	83°	1.0	1024 x 768 x 17µ	106.6gr	45 x 52.5
RP15A11		Athermalized	15mm	63.1°	1.1	1024 x 768 x 17µ	108gr	65 x 54mm
RP16A11		Athermalized	16mm	61.2°	1.1	1024 x 768 x 17µ	115gr	67 x 55mm
RP17A07		Athermalized	17mm	35.5°	0.7	640 x 480 x 17µ	110gr	42 x 48mm
RP19A105		Athermalized	19mm	52.1°	1.05	1024 x 768 x 17µ	150gr	75 x 67mm
RP19A09		Athermalized	19mm	52°	0.9	1024 x 768 x 17µ	280gr	58 x 70mm
RP27A08		Athermalized	27mm	22.8°	0.8	640 x 480 x 17µ	200gr	58 x 60mm
RP35A12		Athermalized	35mm	17.7°	1.2	640 x 480 x 17µ	40gr	35 x 32mm
RP45A12		Athermalized	45mm	13.8°	1.2	640 x 480 x 17µ	106gr	47 x 52mm
RP90M14		Manual	90mm	6°	1.4	640 x 480 x 17µ	350gr	73 x 117mm

# SWIR & MULTISPECIAL

MODEL			FOCAL LENGTH	F#	WAVE LENGTH	FPA	WEIGHT	DIMENSIONS (Ø x Length)
125A12			12.5mm A-Thermalized	1.2	0.6-1.7µ	640 x 512 x 15µ	120gr	30 x 81mm
14A175			14mm A-Thermalized	1.75	0.42-1.7µ	640 x 512 x 15µ	49gr	28 x 46mm
RP-SW300			300mm Motorized Focus	4.5	0.9-1.8µ	1280 x 1024 x 10µ	800gr	89 X 272 x 103mm
RP-SW500			500mm Motorized Focus	10	0.9-1.8µ	1280 x 1024 x 10µ	1.2kg	80 X 260 x 103mm
SNIR			75/250mm Dual FOV	4.7	1-5µ	640 x 512 x 15µ	1.3kg	75 x 252mm
CORAL			30-300mm Continuous zoom	2.85-4.5	0.9-1.7µ	640 x 512 x 15µ	2kg	88 x 267.6mm
CROCUS			50-500mm Continuous zoom	5.0	0.9-1.9µ	1280 x 1024 x 10µ	3.7kg	115 x 470mm
CROCUS 1000			100-1000mm Continuous zoom	10	0.9-1.9µ	1280 x 1024 x 10µ	3.7kg	117 x 508mm
AMARYLLIS			500-2500mm Continuous zoom	4-16	0.9-1.7µ	640 x 512 x 15µ	13kg	186 x 559mm

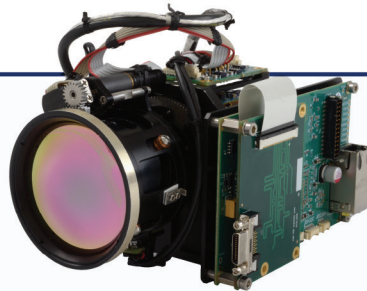
# RP Cores – Lens + TVPE Bundle

## Plug and play with RP Zoom lenses



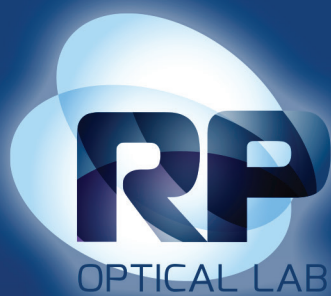
\*TVPE – Advanced Thermal Video Processing Engine  
By RP SYSTEMS INC

\*Fits multiple cooled  
MW and LW detectors  
640x512 & 1280x1024.



### Packed with the LATEST Processing and Manipulation Features:

- Multiple 2-pt NUC Tables with Auto INTEGRATION CONTROL and NUC SELECTION
- BPR (Bad Pixel Detection and Replacement)
- Contrast Limited Histogram Equalization
- Local DRC Contrast Enhancement
- Sharpening and Convolution Kernels
- Spatial Noise Reduction and Median Filter
- Adaptive Temporal Filter without Blur
- Auto Integration Control and NUC Selection
- Image Statistics
- Autofocus
- Proprietary Detail Enhancement and Noise Reduction Algorithms
- Double Exposure Mode



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