



OPTRON BML-SERIES M12 (S-MOUNT) LENSES

KEY FEATURES

- Lenses for 1/3" up to 2/3" formats
- Quality build and performance
- Suitable for MP resolution applications
- No iris, fixed aperture
- No moving parts
- IR corrected optics
- IR cut versions available upon request
- Varifocal options also available
- Various adapters and mounts available
- Available in kits for easy storage and use

Bock Optronics offers a wide selection of quality M12 S-mount lenses well suited for a variety of applications such as:

- machine vision / FA
- robotics / UAV / UGV
- motion capture
- video conferencing
- security / surveillance
- and many more ...

Excellent for use with ultra compact cameras with M12 lens mounts, or with the use of adapters, can be used with C/CS-mount cameras, providing a compact high performance solution.

BML-130 series of lenses are a cost effective and suitable for general purpose imaging applications. Up to 2MP resolution, all are IR corrected enabling them for extended spectrum use.

✓ IR
Corrected



BML-130 SERIES	Focal Length	Fixed Aperture	IR Corrected	Weight (g)	Back Focal Length (mm)	Horizontal Angle of View **		Dimensions (Ø x L mm)
Standard - 1/3" Format, IR Corrected						1/4"	1/3"	
BML-130-XL01220	1.25mm	F2.0	Yes	16.4	n/a	185°	185°	25 x 28.6
BML-130-XL02118	2.1mm	F1.8	Yes	6.5	6.25	95°	130°	16 x 18.7
BML-130-XL02820	2.8mm	F2.0	Yes	6.6	5.29	73°	93°	14 x 15.3
BML-130-XL03618	3.6mm	F1.8	Yes	6.1	6.59	56°	77°	14 x 16.2
BML-130-XL04218	4.2mm	F1.8	Yes	6.2	7.21	42°	60°	14 x 15.8
BML-130-XL06018	6.0mm	F1.8	Yes	5.9	8.75	35°	48°	14 x 14.7
BML-130-XL08018	8.0mm	F1.8	Yes	6.5	5.4	26°	35.5°	14 x 17.2
BML-130-XL12018	12mm	F1.8	Yes	6.3	6.54	17°	22.7°	14 x 15.5
BML-130-XL16018	16mm	F1.8	Yes	6.1	6.59	12.5°	16.4°	14 x 15.8

* Lens is useable with this sensor size, but some corner vignetting may be present depending on sensor aspect ratio.

** HAoV may vary due to sensor aspect ratio.

BML-12x series of lenses are the most popular due to the larger image circle and wide range of focal lengths available. Up to 3MP resolution, all are also IR corrected enabling them for extended spectrum use.

✓ IR
Corrected



BML-12x SERIES	Focal Length	Fixed Aperture	Weight (g)	Back Focal Length (mm)	Horizontal Angle of View **				Dimensions (Ø x L mm)
Standard - 1/2.5", 1/2.3" and 1/2" Format, IR Corrected					1/4"	1/3"	1/2.5"	1/2"	
BML-123-XL01520 (UFL)	1.12mm	F2.4	35	2.67	178°	~ 250°	~ 250°	~ 250°	40 x 27.9
BML-125-XL01520	1.55mm	F2.0	20.8	6.43	135.2°	185°	~ 185°	~ 185°	28 x 26.6
BML-125-XL02620	2.6mm	F2.0	6.6	7.04	63.2°	85.4°	123.2°	*	17 x 18.8
BML-125-XL02822	2.8mm	F2.2	6.6	5.66	64°	86°	124°	*	17 x 19.6
BML-125-XL03618	3.6mm	F1.8	6.5	7.73	48°	67.4°	93°	*	15 x 17.5
BML-120-XL04016	4.0mm	F1.6	5.5	7.21	43.6°	62°	79°	96°	18 x 15.6
BML-123-XL05425	5.4mm	F2.5	6.5	6.60	33°	48°	58°	*	14 x 18.7
BML-120-XL06016	6.0mm	F1.6	6.5	8.73	30°	43.6°	54.3°	65°	14 x 15.4
BML-120-XL08016	8.0mm	F1.6	6.1	5.40	22.6°	33.4°	40.7°	48°	14 x 17.7
BML-120-XL12016	12mm	F1.6	6.1	6.54	15.2°	22.6°	26.7°	31°	14 x 15.3
BML-120-XL16018	16mm	F1.8	6.5	7.21	11.4°	17.1°	19.7°	22.3°	15 x 17.5
BML-120-XL25024	25mm	F2.4	7.1	10.26	7.3°	10.9°	12.6°	14.3°	15 x 18.7
BML-120-XL35025	35mm	F2.5	15.5	14.49	5.3°	7.8°	9.4°	11°	20 x 33.4
BML-120-XL50025	50mm	F2.5	34.5	18.63	3.6°	5.5°	5.8°	6.2°	25 x 48.9

* Lens is useable with this sensor size, but some corner vignetting may be present depending on sensor aspect ratio.

** HAoV may vary due to sensor aspect ratio.

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BML-118 and 230 series of lenses are ideal for larger format multi-megapixel sensors, providing excellent image quality across the image circle. All are IR corrected enabling them for extended spectrum use.

✓ IR
Corrected



BML-118 / 230 SERIES	Focal Length	Fixed Aperture	Weight (g)	Back Focal Length (mm)	Horizontal Angle of View **				Dimensions (Ø x L mm)	Resolution
Standard - 1/1.8" and 2/3" Format, IR Corrected					1/3"	1/2"	1/1.8"	2/3"		
BML-118-XL02920	2.95mm	F2.0	15.2	5.82	93°	125°	138°	180°	25 x 26	3MP
BML-118-XL02928	2.95mm	F2.8	-	7.09	96°	127°	143°	180°	25 x 28.2	4K
BML-118-XL04018	4.0mm	F1.8	21.3	8.0	69°	91.5°	101°	*	24 x 23.2	3MP
BML-118-XL04020	4.0mm	F2.0	-	6.5	70°	92°	103°	*	20 x 26.3	4K
BML-118-XL04022	4.0mm	F2.2	-	6.28	80°	98.8°	114.3	*	18 x 20.3	4K
BML-118-XL04522	4.5mm	F2.2	-	7.18	64°	72.3°	78.7°	*	18 x 20.3	3MP
BML-118-XL05518	5.5mm	F1.8	15.7	6.86	52.8°	59.3°	65.1°	*	24 x 23.3	3MP
BML-118-XL08018	8.0mm	F1.8	37.1	6.98	35.8°	45.2°	50.2°	*	24 x 23.3	3MP
BML-118-XL08026	8.0mm	F2.6	-	7.8	39.2°	44°	49°	*	22 x 27.1	4K
BML-118-XL12020	12mm	F2.0	7.2	6.74	22.7°	30°	33.6°	*	15 x 19.2	3MP
BML-118-FS25017	25mm	F1.7	-	tbd	11°	14.6°	16.2°	*	17 x 22.7	5MP
BML-118-FS35020	35mm	F2.0	-	tbd	9.1	12.3°	14.2°	*	20 x 33.7	4K
BML-118-FS50025	50mm	F2.5	-	tbd	5.5°	7.3°	8.2°	*	22.1 x 31.9	4K
BML-118-FS75028	75mm	F2.8	-	tbd	3.7°	4.9°	5.5°	*	30 x 70	4K
BML-230-XL02020	2.0mm	F2.0	39	6.2	137°	195°	195°	195°*	30.5 x 25.2	3MP

Not all lenses are represented by images above. Please contact Bock Optronics for more specific lens information.

* Lens is useable with this sensor size, but some corner vignetting may be present depending on sensor aspect ratio.

** HAOV may vary due to sensor aspect ratio.

BML-VF series are ideal for applications where flexibility is required in selecting the ideal focal length. All are IR corrected enabling them for extended spectrum use.

✓ IR
Corrected



VARI-FOCAL LENSES	Focal Length	Fixed Aperture	Image Format	Back Focal Length (mm)	M.O.D. (mm)	Angle of View (W ~ T) (H x V x D)	Dimensions (Ø x L mm)
BML-130-2406016-VF	2.4 ~ 6.0mm	F1.6	1/3"	6.21 ~ 10.49	100	112° x 80° x 150° 47° x 35° x 59°	32 x 35.8
BML-127-2806020-VF	2.8 ~ 6.0mm	F2.0	1/2.7"	4.27 ~ 6.95	100	100° x 75° x 128° 51° x 38.5° x 63.3°	21 x 16.25
BML-127-0550016-VF	5.0 ~ 50mm	F1.6	1/2.7"	6.46 ~ 13.90	300	49.5° x 27.7° x 58.6° 7.4° x 4.2° x 8.4°	30 x 57.7
BML-125-3312014-VF	3.3 ~ 12mm	F1.4	1/2.5"	6.49 ~ 13.94	100	93.5° x 68° x 117° 32° x 24° x 39°	30 x 32.1

M12 MOUNT ACCESSORIES

APT-M12C	APT-M12CS	APT-CSM12	BO-SMET-06	BO-SMET-10	BO-LFLR
					
M12 lens to C-mount adapter	M12 lens to CS-mount adapter	CS/C-mount lens to M12 mount adapter	6.0mm extension tube, M12	10mm extension tube, M12	M12 lens focus lock ring

LENS KITS

BLK-130 / 120 / 118 Series Lens Kits	Looking for a lens kit for lab use, in field testing, or a way to store your lenses together in a safe environment? Bock Optronics can provide custom lens kits for your needs.	 Sample BLK-120 lens kit shown.
BLK-CLK	Lens kit with all 1/3", 1/2" and 1/1.8" format lenses with focus lock rings, vari-focal zoom lenses, C-mount and CS-mount adapters, 6mm and 10mm extension rings.	
BLK-Custom	Bock Optronics can configure a lens kit per your requirements. Please contact us for more information.	