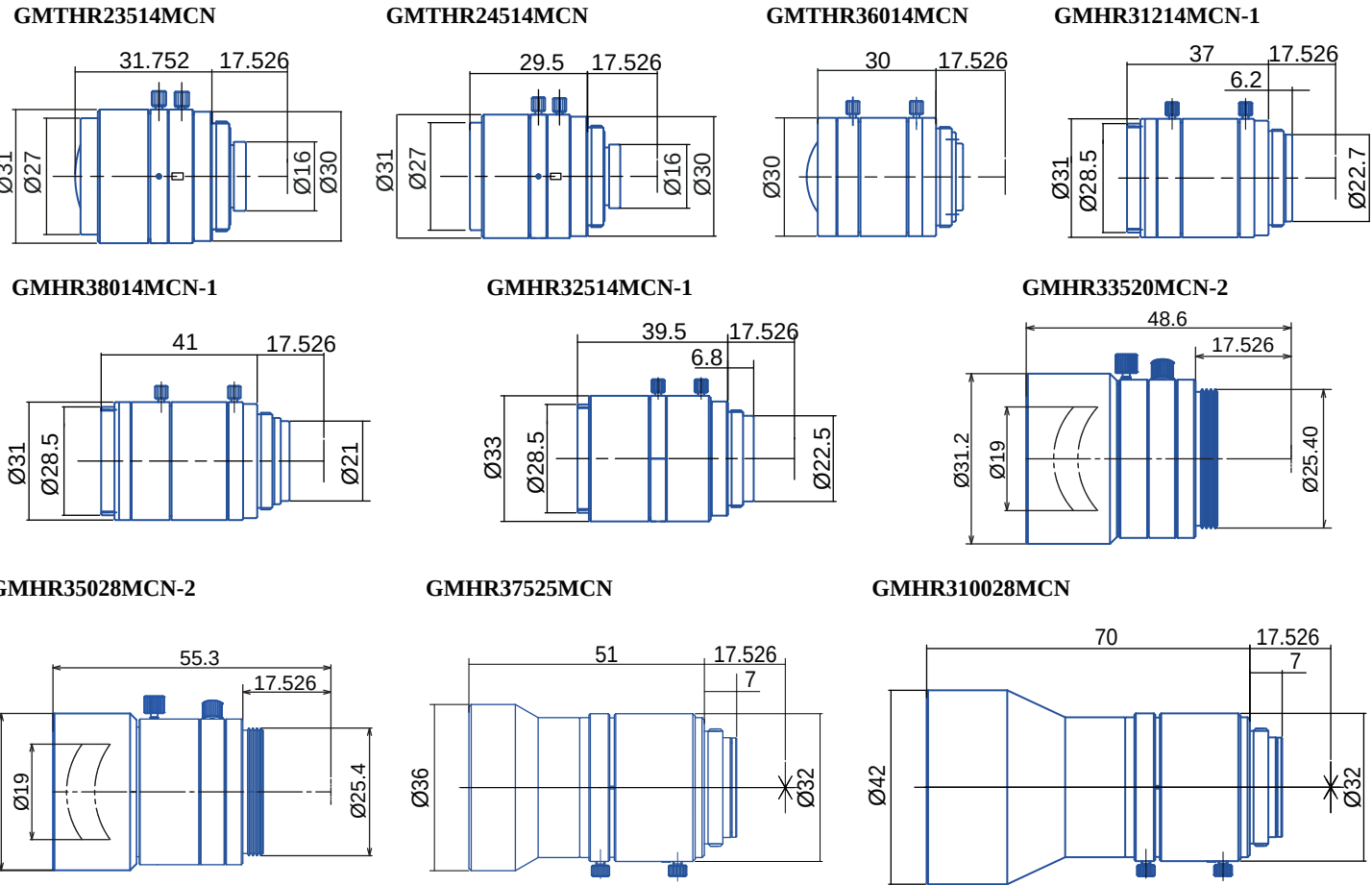


1-3 Megapixel High Resolution Lenses

| Item No.        | F Length | Iris Range | Angle of View ( H x V x D ) |                      | M.O.D | Filter Thread | Dimenton (DxL) | Weight |
|-----------------|----------|------------|-----------------------------|----------------------|-------|---------------|----------------|--------|
|                 |          |            | 1/2"                        | 2/3"                 |       |               |                |        |
| GMTHR23514MCN   | 3.5mm    | F1.4-16    | 103°34'x76°54'x131°4'       |                      | 0.2m  |               | Ø31 x 31.75mm  | 100g   |
| GNTHR24514MCN   | 4.5mm    | F1.4-16    | 78°96'x59°41'x98°23'        |                      | 0.2m  |               | Ø31 x 29.5mm   | 100g   |
| GMHR26012MCN    | 6.0mm    | F1.2-16.0  | 56°2'x43°5'x67°0'           |                      | 0.1m  | M30.5 , P0.5  | Ø34 x 46mm     | 110g   |
| GMHR26014MCN-1  | 6.0mm    | F1.4-16.0  | 57°4'x44°3'x72°9'           |                      | 0.2m  | M30.5 , P0.5  | Ø34 x 16mm     | 110g   |
| GMTHR36014MCN   | 6mm      | F1.4-16    |                             | 82°x61°3'x103°02'    | 0.1m  |               | Ø30 x 32.8mm   | 100g   |
| GMHR38014MCN-1  | 8mm      | F1.4-16    |                             | 56°6'x43°95'x67°22'  | 0.1m  | M27 , P0.5    | Ø31 x 41mm     | 100g   |
| GMTHR38014MCN   | 8.25mm   | F1.44-16   |                             | 57°32'x44°29'x68°66' | 0.1m  | M27.0, P0.5   | Ø30 x 47.5mm   | 85g    |
| GMXHR38014MCN   | 8.0mm    | F1.4-22    |                             | 56°7'x43°8'x68°2'    | 0.1m  | M35.5 , P0.5  | Ø37.5 x 28mm   | 80g    |
| GMHR31214MCN-1  | 12.0mm   | F1.4-16    |                             | 38°25'x29°14'x46°71' | 0.15m | M27.0 , P0.5  | Ø31 x 37mm     | 100g   |
| GMTHR31214MCN   | 12.3mm   | F1.45-16   |                             | 39°59'x30°17'x48°38' | 0.1m  | M27.0 , P0.5  | Ø30 x 47.5mm   | 90g    |
| GMHR31614MCN-1  | 16mm     | F1.4-16    |                             | 30°3'x16°05'x37°33'  | 0.2m  | M27 , P0.5    | Ø33 x 36.5mm   | 100g   |
| GMTHR31614MCN   | 16.2mm   | F1.45-16   |                             | 30°46'x23°07'x37°55' | 0.1m  | M27.0 , P0.5  | Ø30 x 42.5mm   | 80g    |
| GMHR32514MCN-1  | 25mm     | F1.4-16    |                             | 19°57'x14°75'x24°3'  | 0.2m  | M27.0 , P0.5  | Ø33 x 39.5mm   | 100g   |
| GMTHR32514MCN-1 | 25mm     | F1.4-16    | 14°6'x11°0'x18°2'           | 20°1'x15°1'x25°0'    | 0.25m | M25.5 , P0.5  | Ø29 x 32.0mm   | 50g    |
| GMHR33520MCN-2  | 35mm     | F2-Close   |                             | 14°4'x10°8'          | 0.3m  | M25.5 , P0.5  | Ø29 x 40mm     | -g     |
| GMTHR33520MCN-1 | 35.0mm   | F2.0-22.0  | 10°5'x7°9'x13°1'            | 14°3'x10°5'x17°8'    | 0.25m | M25.5 , P0.5  | Ø29 x 39mm     | 60g    |
| GMHR35028MCN-2  | 50mm     | F2.8-Close |                             | 10°x7°5'             | 0.5m  | M25.5 , P0.5  | Ø29 x 30mm     | -g     |
| GMTHR35028MCN-1 | 50mm     | F2.8-22    | 7°3'x5°5'x9°0'              | 10°0'x7°5'x12°4'     | 0.5m  | M25.5 , P0.5  | Ø29 x 39mm     | 60g    |
| GNHR37525MCN    | 75mm     | F2.5-16    | 4°9'x3°7'x6°1'              | 6°7'x5°0'x8°3'       | 1.2m  | M34 , P0.5    | Ø36 x 51.0mm   | 90g    |
| GMHR310028MCN   | 100mm    | F2.8-16    | 3°7'x2°8'x4°6'              | 5°0'x3°8'x6°3'       | 2.0m  | M40.5 , P0.5  | Ø42 x 70.0mm   | 140g   |

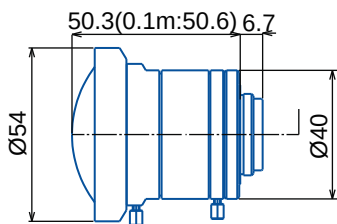


\*Specifications are subject to change without prior notice

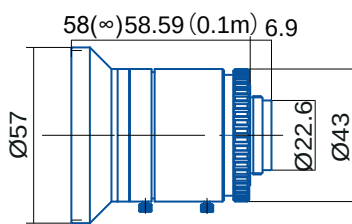
### 3-5 Megapixel 1Inch Format High Resolution Lenses

| Item No.         | F Length | Iris Range | Angle of View ( H x V x D ) | M.O.D | Filter Thread | Dimension(DxL) | Weight |
|------------------|----------|------------|-----------------------------|-------|---------------|----------------|--------|
| GMTHR46018MCN    | 6mm      | F1.8-22    | 1" 95°1'x78°7'x104°6'       | 0.1m  | No            | Ø54x50.3mm     | 225g   |
| GMTHR48014MCN    | 8mm      | F1.4-16    | 1" 79°66'x62°92'x92°4'      | 0.1m  | M55 , P0.75   | Ø57 x 58.59mm  | 225g   |
| GMTHR48014MCN-1  | 8mm      | F1.4-22    | 1" 79°7'x62°9'x92°6'        | 0.1m  | M55 , P0.75   | Ø57 x 58mm     | 220g   |
| GMTHR412514MCN   | 12.5mm   | F1.4-16    | 1" 56°45'x42°51'x67°59'     | 0.1m  | M35.5 , P0.5  | Ø43 x 52.94mm  | 200g   |
| GMTHR412514MCN-1 | 12.5mm   | F1.4-22    | 1" 55°7'x42°7'x67°8'        | 0.3m  | M35.5 , P0.5  | Ø40 x 52mm     | 160g   |
| GMTHR41614MCN    | 16mm     | F1.4-22    | 1" 44°5'x33°8'x54°6'        | 0.3m  | M35.5 , P0.5  | Ø40 x 42mm     | 225g   |
| GMTHR42514MCN    | 25mm     | F1.4-22    | 1" 29°x21°9'x36°1'          | 0.3m  | M35.5 , P0.5  | Ø40 x 42.5mm   | 225g   |
| GMTHR43514MCN    | 35mm     | F1.4-22    | 1" 10°4'x15°7'x26°          | 0.3m  | M35.5 , P0.5  | Ø40 x 42.5mm   | 225g   |
| GMTHR45014MCN    | 50mm     | F1.4-16    | 1" 14°5'x10°92'x18°03'      | 0.5m  | M40.5 , P0.5  | Ø47.5 x 48mm   | 225g   |
| GMHR47518MCN     | 75mm     | F1.8-16    | 1" 9°7'x7°3'x12°0'          | 1.0m  | M46.0 , P0.75 | Ø49 x 57mm     | 180g   |

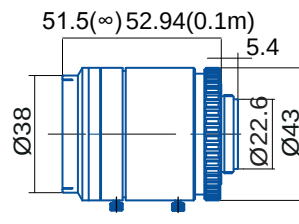
GMTHR46018MCN



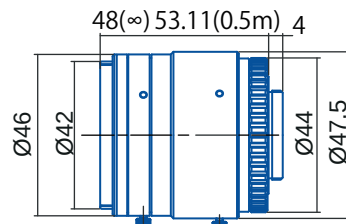
GMTHR48014MCN



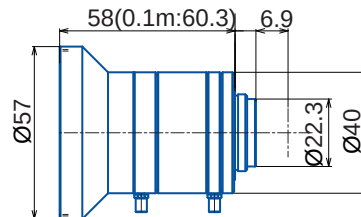
GMTHR412514MCN



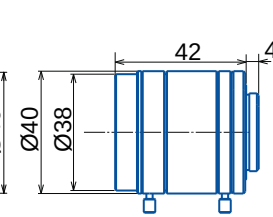
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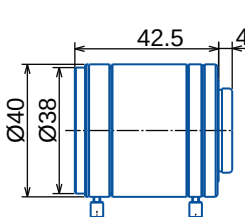
GMTHR48014MCN-1



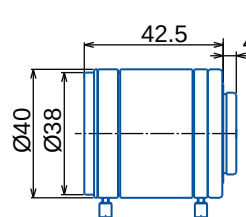
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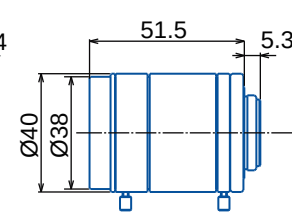
GMTHR42514MCN



GMTHR43514MCN



GMTHR412514MCN-1



### 5Megapixel High Resolution Lenses

| Item No.        | F Length | Iris Range | Angle of View (HxVxD)       | M.O.D | FilterThread  | Dimension (DxL) | Weight |
|-----------------|----------|------------|-----------------------------|-------|---------------|-----------------|--------|
| GMR5HR181214MCN | 12 mm    | F1.4-22    | 1/1.8" 32°38'x24°58'x39°79' | 0.2m  | M27 , P0.5    | Ø29.5 x 35.7mm  | 57g    |
| GMA5HR38028MCN  | 8 mm     | F2.8-22    | 2/3" 57°9'x45°0'            | 0.1m  | M49.0 , P0.75 | Ø51 x 48.5mm    | 210g   |
| GMA5HR31218MCN  | 12mm     | F1.8-22    | 2/3" 40°3'x30°8'            | 0.15m | M49 , P0.75   | Ø51 x 59.0mm    | 200g   |
| GMR5HR31614MCN  | 16 mm    | F1.4-16    | 2/3" 30°99'x23°43'x38°29'   | 0.25m | M27 , P0.5    | Ø29.5 x 37.2mm  | 64g    |
| GM5HR31614MCN   | 16 mm    | F1.4-22    | 2/3" 30°7'x23°3'            | 0.2m  | M49 , P0.75   | Ø51 x 62.5mm    | 200g   |
| GMR5HR32514MCN  | 25 mm    | F1.4-16    | 2/3" 19°98'x15°04'x24°86'   | 0.25m | M27 , P0.5    | Ø29.5 x 38.8mm  | 56g    |
| GM5HR32514MCN   | 25 mm    | F1.4-22    | 2/3" 20°0'x15°0'            | 0.2m  | M49 , P0.75   | Ø51 x 48.0mm    | 190g   |
| GMB5HR32514MCN  | 25 mm    | F1.4-16    | 2/3" 19°6'x14°8'x24°3'      | 0.2m  | M30.5 , P0.5  | Ø38.5 x 44.0mm  | 90g    |
| GMR5HR33516MCN  | 35 mm    | F1.6-16    | 2/3" 14°74'x11°08'x18°37'   | 0.35m | M27 , P0.5    | Ø29.5 x 40.8mm  | 65g    |
| GM5HR33514MCN   | 35 mm    | F1.4-22    | 2/3" 10°4'x7°8'             | 0.25m | M49 , P0.75   | Ø51 x 62.0mm    | 230g   |
| GMR5HR35028MCN  | 50 mm    | F2.8-22    | 2/3" 10°03'x7°54'x12°52'    | 0.8m  | M27 , P0.5    | Ø29.5 x 38mm    | 55g    |
| GMB5HR35028MCN  | 50 mm    | F2.8-22    | 2/3" 9°6'x7°2'x11°9'        | 0.2m  | M30.5 , P0.5  | Ø38.5 x 76.0mm  | 120g   |
| GM5HR128024MCN  | 8 mm     | F2.4-16    | 1/1.2" 70°3'x54°9'(4:3)     | 0.1m  | M35.5 , P0.5  | Ø37 x 43mm      | 90g    |
| GM5HR121220MCN  | 12mm     | F2-16      | 1/1.2" 49°2'x37°6'(4:3)     | 0.1m  | M27 , P0.5    | Ø29 x 39mm      | 70g    |
| GM5HR121620MCN  | 16 mm    | F2-16      | 1/1.2" 37°4'x28°4'(4:3)     | 0.1m  | M27 , P0.5    | Ø29 x 32mm      | 60g    |
| GM5HR122518MCN  | 25 mm    | F1.8-16    | 1/1.2" 24°1'x18°2'(4:3)     | 0.1m  | M27 , P0.5    | Ø29 x 37mm      | 60g    |
| GM5HR123521MCN  | 35 mm    | F2.1-16    | 1/1.2" 17°3'x13°1'(4:3)     | 0.2m  | M27 , P0.5    | Ø29 x 40mm      | 60g    |
| GM5HR125028MCN  | 50 mm    | F2.8-16    | 1/1.2" 12°2'x9°2'(4:3)      | 0.3m  | M27 , P0.5    | Ø29 x 52mm      | 75g    |
| GM5HR127535MCN  | 75 mm    | F3.5-16    | 1/1.2" 8°1'x6°1'(4:3)       | 0.7m  | M27 , P0.5    | Ø29 x 65mm      | 90g    |

6-8 Megapixel High Resolution Lenses

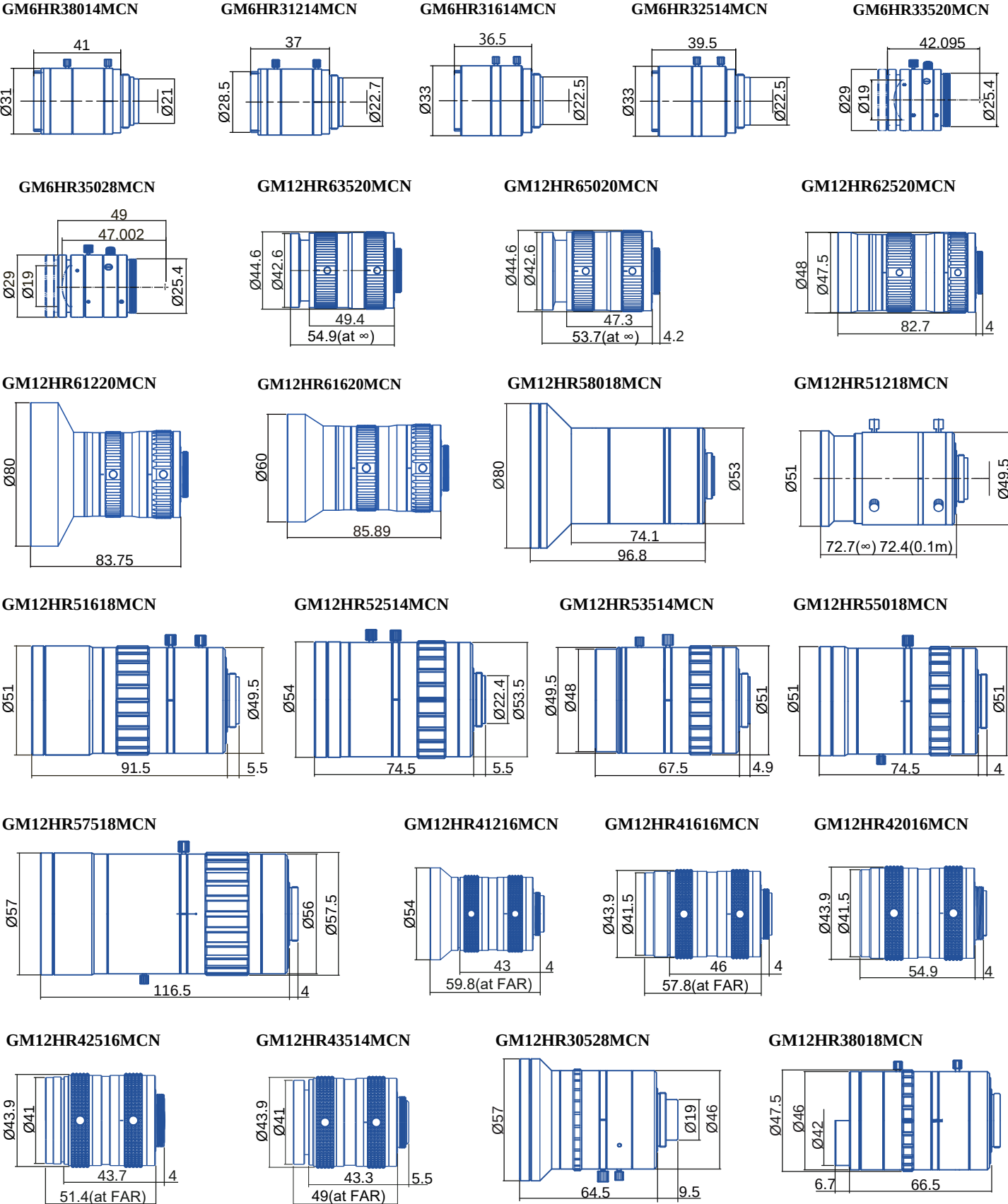
| Item No.        | F Length | Iris Range | Angle of View ( H x V x D ) |                           | M.O.D | Filter Thread | Dimention(DxL) | Weight |
|-----------------|----------|------------|-----------------------------|---------------------------|-------|---------------|----------------|--------|
| GM6HR38014MCN   | 8mm      | F1.4-16    | 2/3"                        | 56°6'x43°95'x67°22'       | 0.1m  | M27 , P0.5    | Ø31x41mm       | 100g   |
| GM6HR31214MCN   | 12mm     | F1.4-16    | 2/3"                        | 38°25'x29°14'x46°71'      | 0.15m | M27 , P0.5    | Ø31x37mm       | 100g   |
| GM6HR31614MCN   | 16mm     | F1.4-16    | 2/3"                        | 30°3'x16°05'x37°33'       | 0.2m  | M27 , P0.5    | Ø33x36.5mm     | 100g   |
| GM6HR32514MCN   | 25mm     | F1.4-16    | 2/3"                        | 19°57'x14°75'x24°3'       | 0.2m  | M27 , P0.5    | Ø33x39.5mm     | 100g   |
| GM6HR33520MCN   | 35mm     | F2-Close   | 2/3"                        | 14°3'x10°5'x17°8'         | 0.3m  | M25.5 , P0.5  | Ø29x40mm       | -g     |
| GM6HR35028MCN   | 50mm     | F2.8-Close | 2/3"                        | 10°x7°5'                  | 0.5m  | M25.5 , P0.5  | Ø29x30mm       | -g     |
| GM8MPDN41450MCN | 14-50mm  | F2.6-16    | 1"                          | 50°5'x38.0' - 14°5'x11°1' | 1.2m  | M58 , P0.75   | Ø60x90mm       | 400g   |

12Megapixel High Resolution Lenses

| Item No.          | F Length | Iris Range | Angle of View ( H x V x D ) |                  |      | M.O.D       | Filter Thread | Dimention(DxL)  | Weight       |      |
|-------------------|----------|------------|-----------------------------|------------------|------|-------------|---------------|-----------------|--------------|------|
| GM12HR61220MCN    | 12mm     | F2-22      | 4/3"                        | 75°46'x61°08'    |      | 0.15m       | M77 , P0.75   | Ø80 x 85mm      | 450g         |      |
| GM12HR61620MCN    | 16mm     | F2-22      | 4/3"                        | 60°92'x47°28'    |      | 0.1m        | M58 , P0.75   | Ø60 x 86mm      | 350g         |      |
| GM12HR62520MCN    | 25mm     | F2.0-22    | 4/3"                        | 40°6'x31°        |      | 0.15m       | M46.0 , P0.75 | Ø48 x 82.7mm    | 250g         |      |
| GM12HR63520MCN    | 35mm     | F2.0-22    | 4/3"                        | 29°6'x22°4'      |      | 0.2m        | M40.5 , P0.5  | Ø44.6 x 54.9mm  | 173g         |      |
| GM12HR65020MCN    | 50mm     | F2.0-22    | 4/3"                        | 20°9'x15°7'      |      | 0.3m        | M40.5 , P0.5  | Ø44.6 x 53.7mm  | 170g         |      |
| GM12HR58018MCN    | 8mm      | F1.8-22    | 1.1"                        | 83°5'x66°7'      |      | 0.3m        | M77 , P0.75   | Ø80 x 96.8mm    | 500g         |      |
| GM12HR51218MCN    | 12mm     | F1.8       | 1.1"                        | 59°3'x46°3'      |      | 0.1m        | Option        | Ø51 x 73mm      | 300g         |      |
| GM12HR51618MCN    | 16mm     | F1.8-16    | 1.1"                        | 41°85'x41°85'    |      | 0.05m       | M49 , P0.75   | Ø51 x 91.5mm    | 300g         |      |
| GM12HR52514MCN    | 25mm     | F1.8-16    | 1.1"                        | 27°06'x27°06'    |      | 0.08m       | M52 , P0.75   | Ø55 x 74.5mm    | 300g         |      |
| GM12HR53514MCN    | 35mm     | F1.8-16    | 1.1"                        | 19°30'x19°30'    |      | 0.11m       | M46 , P0.75   | Ø51 x 67.5mm    | 300g         |      |
| GM12HR55018MCN    | 50mm     | F1.8-16    | 1.1"                        | 14°x14°          |      | 0.2m        | M49 , P0.75   | Ø51 x 74.5mm    | 300g         |      |
| GM12HR57518MCN    | 75mm     | F1.8-16    | 1.1"                        | 9°35'x9°35'      |      | 0.3m        | M55 , P0.75   | Ø57.5 x 116.5mm | 300g         |      |
| GM12HR41216MCN    | 12mm     | F1.6-22    | 1"                          | 57°1'x44°1'      |      | 0.2m        | M52 , P0.75   | Ø54 x 61mm      | 190g         |      |
| GM12HR41616MCN    | 16mm     | F1.6-22    | 1"                          | 44°2'x33°5'      |      | 0.35m       | M37.5 , P0.5  | Ø47.5 x 58mm    | 205g         |      |
| GM12HR42016MCN    | 20mm     | F1.6-22    | 1"                          | 36°1'x27°2'      |      | 0.45m       | M39, P0.5     | Ø43 x 55mm      | 165g         |      |
| GM12HR42516MCN    | 25mm     | F1.6-22    | 1"                          | 29°x21°8'        |      | 0.45m       | M39, P0.5     | Ø43 x 52mm      | 160g         |      |
| GM12HR43514MCN    | 35mm     | F1.6-22    | 1"                          | 20°7'x51°6'      |      | 0.45m       | M39, P0.5     | Ø43 x 49mm      | 155g         |      |
| GM12HR30528MCN    | 5mm      | F1.8-22    | 2/3"                        | 81°54'x65°76'    |      | 0.1m        | M55, P0.75    | Ø57 x 64.5mm    | 300g         |      |
| GM12HR38018MCN    | 8mm      | F1.8-22    | 2/3"                        | 57°45'x44°50'    |      | 0.1m        | M40.5, P0.5   | Ø47.5 x 73.2mm  | 300g         |      |
| GM12HR38016MCN    | 8mm      | F1.6-22    | 2/3"                        | 55°8'x43°3'      |      | 0.15m       | M40.5 , P0.5  | Ø45 x 53mm      | 170g         |      |
| GM12HR39014MCN-1  | 9mm      | F1.4-Close | 2/3"                        | 50°8'x39°3'      |      | 0.1m        | M46.0 , P0.75 | Ø48 x 54mm      | 160g         |      |
| GM12HR31214MCN    | 12mm     | F1.4-22    | 2/3"                        | 39°75'x30°35'    | 1/2" | 38°2'x29°1' | 0.1m          | M37.5, P0.75    | Ø44.5 x 62mm | 300g |
| GM12HR31216MCN    | 12mm     | F1.6-22    | 2/3"                        | 39°8'x30°4'      |      | 0.1m        | M37.5 , P0.5  | Ø43.2 x 58.5mm  | 178g         |      |
| GM12HR312514MCN-1 | 12.5mm   | F1.4-Close | 2/3"                        | 37°8'x28°8"      | 1/2" | 28°x21°2"   | 0.15m         | M46.0 , P0.75   | Ø48 x 66.8mm | 205g |
| GM12HR31616MCN    | 16mm     | F1.6-22    | 2/3"                        | 30°8'x23°4'      |      | 0.2m        | M37.5, P0.5   | Ø43.2 x 63.3mm  | 181g         |      |
| GM12HR31814MCN-1  | 18mm     | F1.4-Close | 2/3"                        | 27°8'x21°        | 1/2" | 20°4'x15°4' | 0.2m          | M46.0 , P0.75   | Ø48 x 73.5mm | 285g |
| GM12HR32514MCN    | 25mm     | F1.4-22    | 2/3"                        | 20°x15°          |      | 0.2m        | M37.5 , P0.5  | Ø43.2 x 54.5mm  | 148g         |      |
| GM12HR33514MCN    | 35mm     | F1.4-22    | 2/3"                        | 14°3'x10°8'      |      | 0.3m        | M37.5 , P0.5  | Ø43.2 x 56.8mm  | 156g         |      |
| GM12HR35018MCN    | 50mm     | F1.8-22    | 2/3"                        | 10°1'x7°6'x12°6' |      | 0.4m        | M37.5 , P0.5  | Ø43.2 x 58.5mm  | 173g         |      |
| GM12HR37520MCN    | 75mm     | F2.0-22    | 2/3"                        | 6°7'x5°x8°4'     |      | 0.9m        | M37.5 , P0.5  | Ø45 x 71.7mm    | 223g         |      |

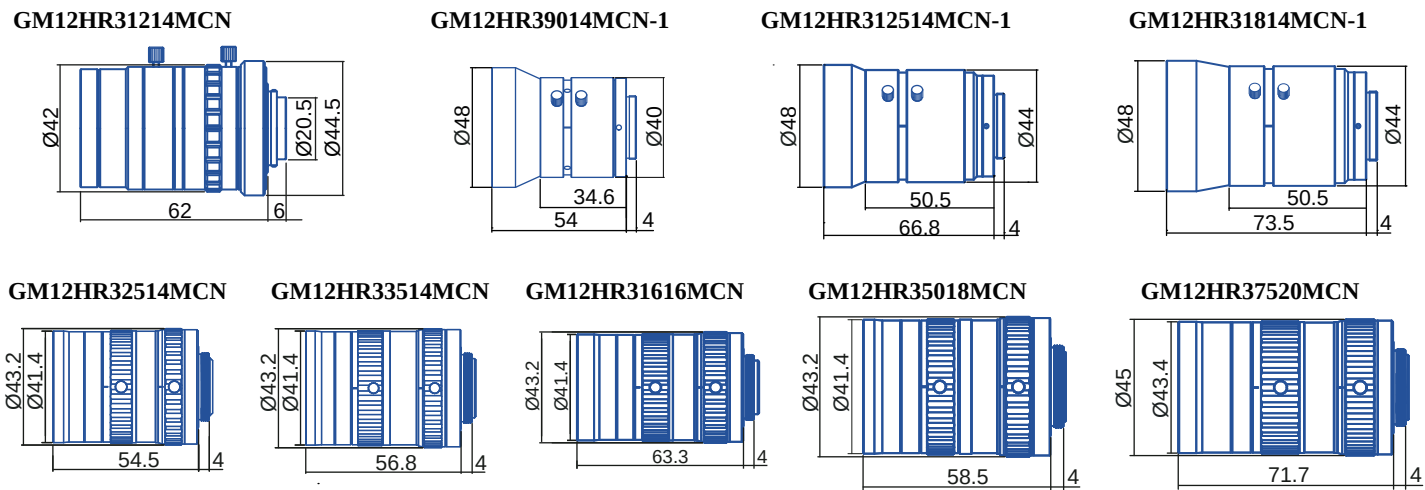
\*Specifications are subject to change without prior notice

6-8 Megapixel and 12Megapixel High Resolution Lenses



\*Specifications are subject to change without prior notice

12Megapixel High Resolution Lenses

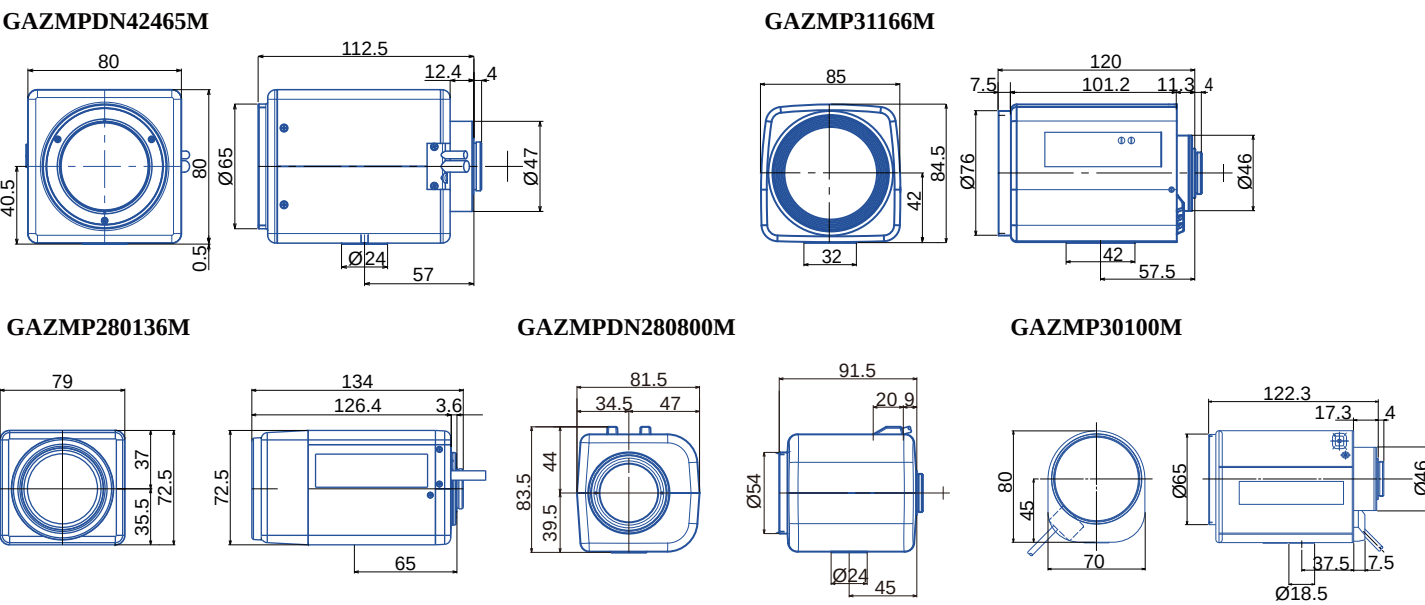


1-3 Megapixel High Resolution Varifocal zoom Lenses

| Item No.     | F Length  | Iris Range | Angle of View (HxVxD) |                                       | M.O.D | FilterThread | Dimention (DxL) | Weight |
|--------------|-----------|------------|-----------------------|---------------------------------------|-------|--------------|-----------------|--------|
| GMMPZ4411MCN | 4.4-11 mm | F1.6-16    | 1/1.8"                | 36°7'x28°0'x44°8' - 76°6'x61°2'x89°4' | 0.3m  | M43 , P0.75  | Ø45 x 56.5mm    | 125g   |
| GMMPZ1664MCN | 16-64 mm  | F1.8-16    | 1"                    | 11°7'x8°8'x14°6' - 45°9'x34°2'x57°9'  | 1.0m  | M58 , P0.75  | Ø60 x 125mm     | 375g   |

Megapixel Three Motorized Zoom Lenses

| Item No.       | F Length  | Iris Range | Angle of View (HxVxD) |                                      | M.O.D | FilterThread | Dimention (DxL)       | Weight |
|----------------|-----------|------------|-----------------------|--------------------------------------|-------|--------------|-----------------------|--------|
| GAZMPDN42465M  | 24-65 mm  | F2-Close   | 1"                    | 30°5'x22°9'x38°1' - 11°2'x8°4'x13°8' | 7m    | M62 , P0.75  | Ø80 x 80.5 x 112.5mm  | 1710g  |
| GAZMP31166M    | 11-66 mm  | F1.8-Close | 2/3"                  | 43°3'x33°0' - 7°7'x5°8'              | 1.4m  | M72 , P0.75  | Ø85 x 84.5 x 110mm    | 700g   |
| GAZMP310100M   | 10-100 mm | F1.4-Close | 2/3"                  | 47°5'x36°5' - 5°0'x3°8'              | 1.2m  | M62 , P0.75  | Ø80 x 70 x 125mm      | 700g   |
| GAZMP280136M   | 8-136 mm  | F1.6-Close | 2/3"                  | 43°6'x33°4' - 2°7'x2°2'              | 1.8m  | M58, P0.75   | Ø79 x 72.5 x 130mm    | 650g   |
| GAZMPDN280800M | 8-80 mm   | F1.6-Close | 2/3"                  | 46°6'x34°3' - 4°7'x3°6'              | 0.1m  | M52 , P0.75  | Ø83.5 x 81.5 x 91.5mm | 600g   |



\*Specifications are subject to change without prior notice

Standard Manual Lenses

| Item No.      | F Length | Iris Range | Angle of View ( H x V x D ) |                    | M.O.D | Filter Thread | Dimention (DxL) | Weight |
|---------------|----------|------------|-----------------------------|--------------------|-------|---------------|-----------------|--------|
|               |          |            | 1/2"                        | 2/3"               |       |               |                 |        |
| GM23514MCN    | 3.5mm    | F1.4-Close | 103°6'x76°0'x132°1'         |                    | 0.2m  |               | Ø31 x 30.5mm    | 73g    |
| GM23516MCN    | 3.5mm    | F1.6-Close | 84°9'x68°9'x97°6'           |                    | 0.1m  | M43.0 , P0.75 | Ø45 x 37.5mm    | 90g    |
| GM24514MCN    | 4.5mm    | F1.4-Close | 79°0'x59°4'x98°2'           |                    | 0.2m  |               | Ø31 x 29.5mm    | 71g    |
| GM26014MCN    | 6.0mm    | F1.4-Close | 54°35'x42°19'x65°39'        |                    | 0.2m  | M27.0 , P0.5  | Ø30 x 30.0mm    | 57g    |
| GMN36014MCN-2 | 6.0mm    | F1.4-16    | 59°4'x44°5'x74°4'           | 81°9'x61°2'x103°1' | 0.1m  |               | Ø30 x 33.9mm    | 65g    |
| GM38013MCN-1  | 8.0mm    | F1.3-Close | 42°0'x32°7'x50°3'           | 57°8'x45°0'x69°2'  | 0.2m  | M25.5 , P0.5  | Ø30 x 34.5mm    | 60g    |
| GMN38014MCN-1 | 8.0mm    | F1.4-16    | 46°2'x34°6'x58°1'           | 64°2'x47°7'x81°3'  | 0.1m  | M27.0 , P0.5  | Ø30 x 30.0mm    | 55g    |
| GM21214MCN    | 12.0mm   | F1.4-Close | 28°58'x21°56'x35°49'        |                    | 0.3m  | M27.0 , P0.5  | Ø30 x 34.5mm    | 56g    |
| GMN31214MCN-2 | 12.0mm   | F1.4-16    | 30°7'x23°0'x38°6'           | 42°5'x31°7'x53°7'  | 0.1m  | M27.0 , P0.5  | Ø30 x 33.4mm    | 60g    |
| GM31614MCN    | 16.0mm   | F1.4-Close | 22°2'x16°5'x27°58'          | 30°22'x23°0'x38°6' | 0.4m  | M27.0 , P0.5  | Ø30 x 24.5mm    | 40g    |
| GMN31614MCN-2 | 16.0mm   | F1.4-16    | 22°2'x16°6'x27°7"           | 30°5'x22°8'x38°3'  | 0.2m  | M27.0 , P0.5  | Ø30 x 30.6mm    | 55g    |
| GM32514MCN    | 25.0mm   | F1.4-Close | 14°3'x10°5'x18°11'          | 19°5'x15°1'x25°2'  | 0.5m  | M27.0 , P0.5  | Ø30 x 24.5mm    | 40g    |
| GMN32516MCN-1 | 25.0mm   | F1.6-16    | 15°3'x11°4'x19°1'           | 21°0'x15°7'x26°3'  | 0.2m  | M27.0 , P0.5  | Ø30 x 28.5mm    | 50g    |
| GM23512MCN    | 35.0mm   | F1.2-Close | 10°4'x7°8'x12°1'            |                    | 1.0m  | M40.5 , P0.5  | Ø46 x 43.0mm    | 150g   |
| GM33519MCN    | 35.0mm   | F1.9-Close | 10°5'x7°9'x13°1'            | 14°4'x10°8'x17°9'  | 0.5m  | M27.0 , P0.5  | Ø30 x 28.0mm    | 50g    |
| GMN33516MCN-1 | 35.0mm   | F1.6-16    | 10°5'x7°9'x13°1'            | 14°4'x10°8'x17°9'  | 0.35m | M30.5 , P0.5  | Ø32 x 36.5mm    | 75g    |
| GM35018MCN    | 50.0mm   | F1.8-Close | 7°4'x5°4'x9°3'              | 10°3'x7°5'x13°0'   | 1.0m  | M30.5 , P0.5  | Ø32 x 37.3mm    | 55g    |
| GMN35020MCN-1 | 50.0mm   | F2.0-16    | 7°3'x5°5'x9°2'              | 10°1'x7°5'x12°5'   | 0.5m  | M30.5 , P0.5  | Ø32 x 40.0mm    | 75g    |
| GM37527MCN    | 75.0mm   | F2.7-Close | 4°46'x3°34'x5°58'           | 6°33'x4°55'x8°12'  | 1.0m  | M30.5 , P0.5  | Ø32 x 42.5mm    | 55g    |
| GM310035MCN   | 100.0mm  | F3.5-Close | 3°47'x2°51'x4°42'           | 5°9'x3°54'x6°21'   | 1.0m  | M30.5 , P0.5  | Ø32 x 44.2mm    | 59g    |

1Inch Format Lenses

| Item No.    | F Length | Iris Range | Angle of View (HxVxD) | M.O.D | FilterThread |                 |        |
|-------------|----------|------------|-----------------------|-------|--------------|-----------------|--------|
| GMG42514MCN | 25.0mm   | F1.4-Close | 28°7'x21°7'x36°0'     | 0.5m  | M34 , P0.5   |                 |        |
| GMG45018MCN | 50.0mm   | F1.8-Close | 14°5'x10°9'x18°0'     | 0.7m  | M40.5 , P0.5 | Dimention (DxL) | Weight |
| GMG47518MCN | 75.0mm   | F1.8-Close | 9°7'x7°3'x12°3        | 0.8m  | M46 , P0.75  | Ø36.5 x 36.7mm  | 110g   |
|             |          |            |                       |       |              | Ø46 x 42.5mm    | 150g   |
|             |          |            |                       |       |              | Ø48.0 x 58.5mm  | 250g   |

Manual Zoom Lenses

| Item No.      | F Length  | Iris Range | Angle of View (HxVxD) |                                      | M.O.D     | FilterThread  | Dimention (DxL) | Weight |
|---------------|-----------|------------|-----------------------|--------------------------------------|-----------|---------------|-----------------|--------|
| GMZ8590056MCN | 8.5-90mm  | F5.6-16    | 1/3"                  | 173mmx129mm- 7.9mmx6.2mm             | 290-135mm | M43.0 , P0.75 |                 |        |
| GMZ85900MCN   | 8.5-90mm  | F2.5-Close | 1/3"                  | 172mmx128mm - 6.9mmx5.2mm            | 310-150mm | M48.0 , P0.75 |                 |        |
| GMZ8048010MCN | 8-48mm    | F1.0-Close | 1/2"                  | 43°6'x33°4'x54°92' - 7°7'x5°7'x9°58' | 1.0m      | M46 , P0.75   |                 |        |
| GMZ28585MCN   | 8.5-85mm  | F1.6-Close | 1/2"                  | 41°.'x31°5' - 4°3'x3°2'              | 1.2m      | M46 , P0.75   |                 |        |
| GMZ11569MCN   | 11.5-69mm | F1.4-Close | 1/2"                  | 31°1'x23°6'x38°3' - 5°3'x4°0'x6°6'   | 1.0m      | M46 , P0.75   | Ø58 x 102.4mm   | 395g   |
|               |           |            | 2/3"                  | 41°9'x32°0'x51°6' - 7°3'x5°5'x9°0'   |           |               | Ø52X102.5mm     | 210g   |
|               |           |            |                       |                                      |           |               | Ø58 x 113mm     | 420g   |

\*Specifications are subject to change without prior notice

Three Motorized Zoom Lenses (Motorized Zoom , Motorized Focus , Motorized Iris)

| Item No.    | F Length  | Iris Range | Angle of View (HxVxD) |                                    | M.O.D | FilterThread | Dimention (WxHxL) | Weight |
|-------------|-----------|------------|-----------------------|------------------------------------|-------|--------------|-------------------|--------|
| GAZ6060010M | 6-60mm    | F1.0-Close | 1/3"                  | 43°6'x33°4'x53° - 4°6'x3°4'x5°7'   | 1.2m  | M62 , P0.75  | 80x70x131mm       | 700g   |
| GAZ656514M  | 6.5-65mm  | F1.4-Close | 1/3"                  | 40°5'x31°x52°2' - 4°2'x3°2'x5°2'   | 1.2m  | M43 , P0.75  | 70x65x105mm       | 290g   |
| GAZ8048010M | 8-48mm    | F1.0-Close | 1/2"                  | 43°6'x33°4' - 7°7'x5°7'            | 1.0m  | M52 , P0.75  | 70x60x98mm        | 500g   |
| GAZ8080012M | 8-80mm    | F1.2-Close | 1/2"                  | 43°6'x33°4' - 4°6'x3°4'            | 1.2m  | M62 , P0.75  | 80x70x130mm       | 700g   |
| GAZ858516M  | 8.5-85mm  | F1.6-Close | 1/2"                  | 41°3'x31°5'x52°4' - 4°2'x3°2'x5°2' | 1.2m  | M43 , P0.75  | 70x65x102mm       | 280g   |
| GAZ65104M   | 6.5-104mm | F1.4-Close | 1/2"                  | 52°4'x40°5' - 3°5'x2°6'            | 1.5m  | M86 , R1.0   | 125x100x160mm     | 1500g  |
| GAZ1025018M | 10-250mm  | F1.8-Close | 1/2"                  | 37°3'x27°7' - 1°5'x1°1'            | 2.5m  | M86 , R0.1   | 110x100x200mm     | 1500g  |
| GAZ10550-2X | 20-1100mm | F7.6-720   | 1/2"                  | 0°34'x34°57'                       | 5m    | M95 , R1.0   | 132x121x299mm     | 4070g  |
| GAZ11569M   | 11.5-69mm | F1.4-Close | 2/3"                  | 41°9'x32° - 7°3'x5°5'              | 1.0m  | M52 , P0.75  | 70x60x105mm       | 500g   |
| GAZ10100M   | 10-100mm  | F1.4-Close | 2/3"                  | 47°5'x36°5' - 5°0'x3°8'            | 1.2m  | M62 , P0.75  | 80x70x125mm       | 700g   |
| GAZ95152M   | 9.5-152mm | F1.8-Close | 2/3"                  | 49°7'x38°3' - 3°3'x2°5'            | 1.0m  | M86 , P1.0   | 125x100x175mm     | 1500g  |
| GAZ16160M   | 16-160mm  | F2.2-Close | 1"                    | 43°6'x33°4' - 4°6'x3°4'            | 1.1m  | M77 , P0.75  | 120x100x180mm     | 1500g  |

Megapixel Three Motorized Zoom Lenses

| Item No.       | F Length | Iris Range | Angle of View (HxVxD) |                                      | M.O.D | FilterThread | Dimention (WxHxL) | Weight |
|----------------|----------|------------|-----------------------|--------------------------------------|-------|--------------|-------------------|--------|
| GAZMPDN42465M  | 24-65mm  | F2-Close   | 1"                    | 30°5'x22°9'x38°1' - 11°2'x8°4'x13°8' | 7m    | M62 , P0.75  | 80x80.5x112.5mm   | 710g   |
| GAZMP31166M    | 11-66mm  | F1.8-Close | 2/3"                  | 43°3'x33°0' - 7°7'x5°8'              | 1.4m  | M72 , P0.75  | 85x84.5x120mm     | 700g   |
| GAZMP310100M   | 10-100mm | F1.4-Close | 2/3"                  | 47°5'x36°5' - 5°0'x3°8'              | 1.2m  | M62 , P0.75  | 80x70x125mm       | 700g   |
| GAZMP280136M   | 8-136mm  | F1.6-Close | 1/2"                  | 43°6'x33°4' - 2°7'x2°2'              | 1.8m  | M58 , P0.75  | 79x72.5x130mm     | 650g   |
| GAZMPDN280800M | 8-80mm   | F1.6-Close | 1/2"                  | 46°6'x34°3' - 4°7'x3°6'              | 0.1m  | M52 , P0.75  | 83.5x81.5x91.5mm  | 600g   |

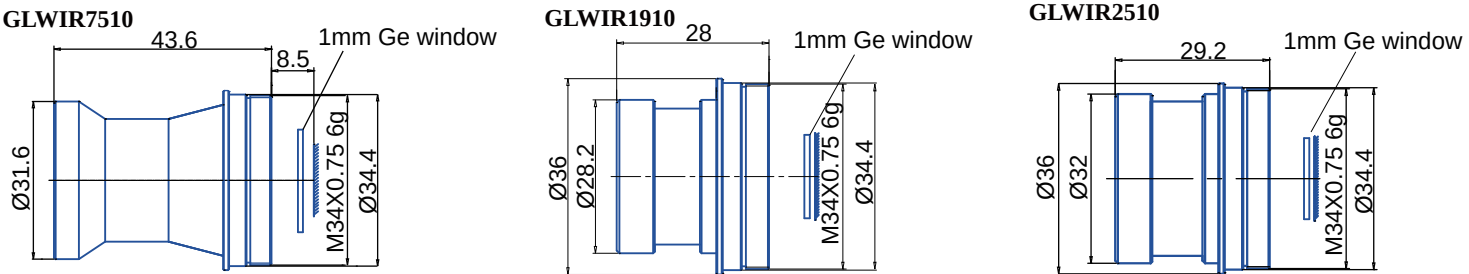
SWIR Lenses (also for InGaAs camera 900-1700nm)

| Item No.              | F Length | Iris Range | Angle of View (HxVxD) |                     | M.O.D | FilterThread | Dimention (DxL) | Weight |
|-----------------------|----------|------------|-----------------------|---------------------|-------|--------------|-----------------|--------|
| GMA5HR38028MCN-SWIR   | 8mm      | F2.8-22    | 2/3"                  | 57°9'x45°0'         | 0.1m  | M49 , P0.75  | Ø51 x 48.5mm    | 210g   |
| GMA5HR31218MCN-SWIR   | 12mm     | F1.8-22    | 2/3"                  | 40°3'x30°8'         | 0.15m | M49 , P0.75  | Ø51 x 59.0mm    | 200g   |
| GMA5HR31614MCN-SWIR   | 16mm     | F1.4-22    | 2/3"                  | 30°7'x23°3'         | 0.2m  | M49 , P0.75  | Ø51 x 62.5mm    | 200g   |
| GMA5HR32514MCN-SWIR   | 25mm     | F1.4-22    | 2/3"                  | 20°0'x15°0'         | 0.2m  | M49 , P0.75  | Ø51 x 48.0mm    | 190g   |
| GMA5HR33514MCN-SWIR   | 35mm     | F1.4-22    | 2/3"                  | 10°4'x 7°8'         | 0.25m | M49 , P0.75  | Ø51 x 62.0mm    | 230g   |
| GMTHR46018MCN-SWIR    | 6mm      | F1.8-22    | 1"                    | 95°1'x78°x7'x104°6' | 0.1m  | -            | Ø54 x 50.3mm    | 250g   |
| GMTHR48014MCN-1-SWIR  | 8mm      | F1.4-22    | 1"                    | 79°7'x62°9'x92°6'   | 0.3m  | M55 , P0.75  | Ø57 x 58mm      | 200g   |
| GMTHR412514MCN-1-SWIR | 12.5mm   | F1.4-22    | 1"                    | 55°7'x42°7'x67°8'   | 0.3m  | M35.5 , P0.5 | Ø40 x 52mm      | 180g   |
| GMTHR41614MCN-SWIR    | 16mm     | F1.4-22    | 1"                    | 44°5'x33°8'x54°6'   | 0.3m  | M35.5 , P0.5 | Ø40 x 42mm      | 225g   |
| GMTHR42514MCN-SWIR    | 25mm     | F1.4-22    | 1"                    | 29°x21°9'x36°1'     | 0.3m  | M35.5 , P0.5 | Ø40 x 42.5mm    | 225g   |
| GMTHR43514MCN-SWIR    | 35mm     | F1.4-22    | 1"                    | 20°9'x16°0'x26.0°   | 0.3m  | M35.5 , P0.5 | Ø40 x 42.5mm    | 225g   |
| GMG42514MCN-SWIR      | 25mm     | F1.4-Close | 1"                    | 28°7'x21°7'x36°0'   | 0.5m  | M34 , P0.5   | Ø36.5 x 36.7mm  | 110g   |
| GMG45018MCN-SWIR      | 50mm     | F1.4-Close | 1"                    | 14°5'x10°9'x18°0'   | 0.7m  | M40.5 , P0.5 | Ø46 x 42.5mm    | 150g   |
| GMG47518MCN-SWIR      | 75mm     | F1.4-Close | 1"                    | 9°7'x7°3'x12°3'     | 0.8m  | M46, P0.75   | Ø48 x 58.5mm    | 250g   |
| GM5HR612520MCN-SWIR   | 12.5 mm  | F2-5.6     | 4/3"                  | 38°6'x31°x90        | 0.3m  | M46, P0.75   | Ø48 x 67mm      | 230g   |

\*Specifications are subject to change without prior notice

LWIR Lenses

| Item No.  | F Length | Iris Range | Angle of View | Wave Length | Sensor Size | M.O.D | Dimention (DxL) | Weight | Operating Temperature |
|-----------|----------|------------|---------------|-------------|-------------|-------|-----------------|--------|-----------------------|
| GLWIR7510 | 7.5mm    | F1.0       | 71°84'x60°18' | 17um        | 640x512     | 1m    | Ø56.5 x 60.8mm  | 35g    | -40°C - +80°C         |
| GLWIR1910 | 19mm     | F1.0       | 31°65'x25°56' | 17um        | 640x512     | 3m    | Ø36 x 21.4mm    | 40g    | -40°C - +80°C         |
| GLWIR2510 | 125mm    | F1.0       | 24°72'x19°88' | 17um        | 640x512     | 3m    | Ø22.5 x 21mm    | 45g    | -40°C - +80°C         |

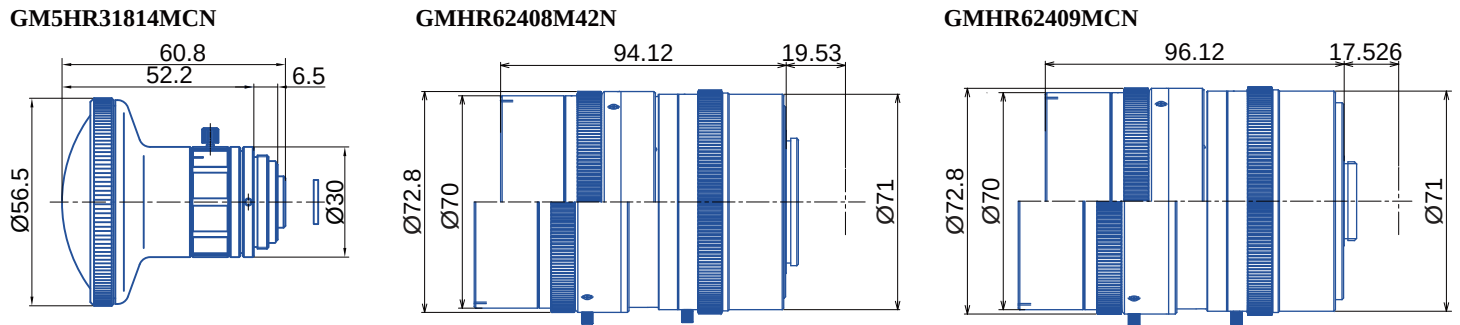


Fish Eye Lenses

| Item No.       | F Length | Iris Range | Angle of View | M.O.D | FilterThread | Dimention (DxL) | Weight |
|----------------|----------|------------|---------------|-------|--------------|-----------------|--------|
| GM5HR31814MCN  | 1.8mm    | F1.4-16    | 185° (Ø5.7mm) | 0.15m | -            | Ø56.5 x 60.8mm  | 195g   |
| GM5HR318161MCN | 1.8mm    | F1.61      | 185° (Ø5.7mm) | 0.15m | -            | Ø36 x 21.4mm    | 50g    |

F0.8-F0.95 lenses

| Item No.      | F Length | Iris Range | Angle of View          | M.O.D | FilterThread | Dimention (DxL) | Weight |
|---------------|----------|------------|------------------------|-------|--------------|-----------------|--------|
| GMHR62408M42N | 24mm     | F0.8-16    | 4/3" 39°3'x30°8'x49°   | 0.15m | M67 , P0.75  | Ø74X103mm       | 900g   |
| GMHR62409MCN  | 24mm     | F0.9-16    | 4/3" 39°3'x30°8'x49°   | 0.15m | M67 , P0.75  | Ø74X105mm       | 900g   |
| GMY31795MCN   | 17.0mm   | F0.95-16   | 2/3" 21°3'x16°1'x26°5' | 0.42m | M40.5 , P0.5 | Ø42 x 63.5mm    | 165g   |
| GMY42595MCN   | 25.0mm   | F0.95-16   | 1" 28°7'x21°7'x35°5'   | 0.45m | M40.5 , P0.5 | Ø42 x 45.5mm    | 120g   |
| GMV42595MC    | 25.0mm   | F0.95-16   | 1" 28°6'x21°7'x35°2'   | 0.4m  | M40.5 , P0.5 | Ø46 x 47.0mm    | 145g   |
| GMY45095MCN   | 50.0mm   | F0.95-16   | 1" 14°x11°x18°         | 0.6m  | M62 , P0.75  | Ø65 x 75mm      | 470g   |



3CCD Camera Lenses

| Item No.      | F Length | Iris Range | Angle of View                | M.O.D               | Filter Thread | Dimention          | Weight |
|---------------|----------|------------|------------------------------|---------------------|---------------|--------------------|--------|
| GMZ3D85900MCN | 8.5-90mm | F2.5-Close | 31°3'x23°5' - 3°2'x2°4'      | 0.15m               | M48.0 , P0.75 | Ø60 x 129mm        | 420g   |
| GAZ3D270112M  | 7-112mm  | F1.4-Close | 1/2" 49°1'x37°8' - 3°3'x2°5' | 1.0m(22mm at Macro) | M86 , P0.1    | Ø121 x 100 x 176mm | 1500g  |
| GAZ3D395152M  | 9.5-52mm | F1.8-Close | 2/3" 49°7'x38°3' - 3°3'x2°5' | 1.0m(22mm at Macro) | M86 , P0.1    | Ø121 x 100 x 176mm | 1500g  |

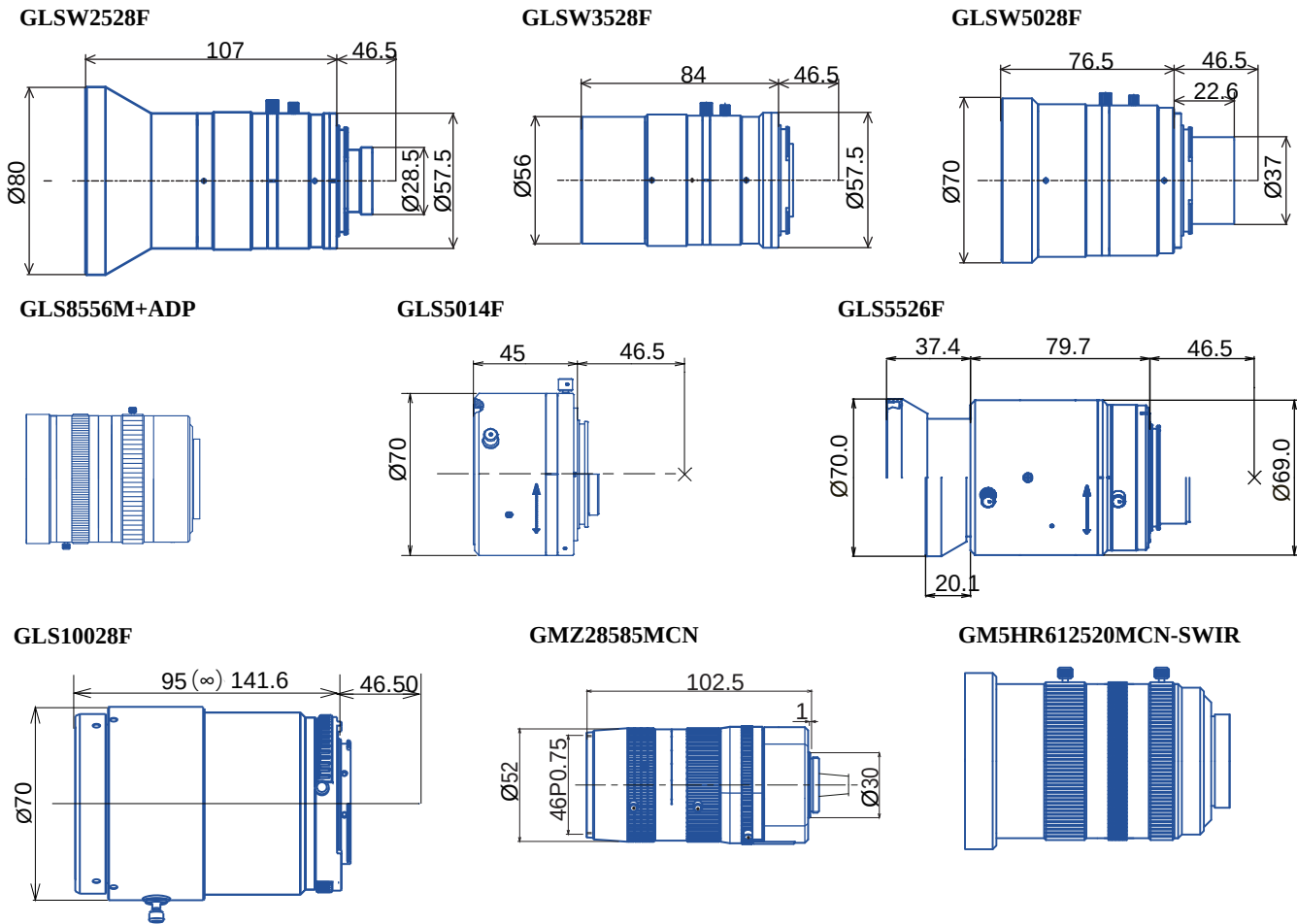
\*Specifications are subject to change without prior notice

UV Quarz Glass Lenses

| Item No.     | F Length | Aperture Ratio | Image Circle | Angle of View at Infinity | Optical Distortion | Filter Size  | Mount            |
|--------------|----------|----------------|--------------|---------------------------|--------------------|--------------|------------------|
| GMOV42528C   | 25mm     | 2.8-16         | 16mm         | 29°7'x22°2'x37°2'         | -4.05%             | M25.5 , P0.5 | C-Mount          |
| GMOV55035C   | 50.53mm  | 3.5-16         | 18mm         | 20°3'                     | -0.76%             | M55 , P0.75  | C-Mount, T-Mount |
| GMOV57838C-1 | 77.5mm   | 3.8-16         | 18mm         | 9°45'x7°09'x11°8'         | -0.27%             | M49 , P0.75  | C-Mount, T-Mount |
| GMOV510540C  | 105mm    | 4.0-22         | 18mm         | 6°98'x5°24'x8°83'         | -0.11%             | M49 , P0.75  | C-Mount, T-Mount |

Line Sensor Lenses

| Item No.     | F Length | Iris Range | Sensor Size | M.O.D                             | Frang Back    | Filter Size | Mount    |
|--------------|----------|------------|-------------|-----------------------------------|---------------|-------------|----------|
| GLSW2528F    | 25mm     | F2.8-22    | Ø44mm       | 150mm                             |               | M77xP0.75   | F or M58 |
| GLS2828F     | 28.5mm   | F2.8-16    | Ø30mm(3CCD) | 0.5m                              | 46.5mm in air | M58 x 0.75  | F-Mount  |
| GLSW3528F    | 35mm     | F2.8-22    | Ø44mm       | 150mm                             |               | M52xP0.75   | F or M58 |
| GLS3528F     | 35mm     | F2.8-22    | Ø30mm(3CCD) | 0.5m                              | 46.5mm in air | M62 x 0.75  | F-Mount  |
| GLS5014F     | 51.55mm  | F1.4-16    | Ø29mm       | 0.358m(x0.149)                    | 46.5mm in air | M58 x 0.75  | F-Mount  |
| GLSW5028F    | 50mm     | F2.8-22    | Ø44mm       | 300mm                             |               | M67xP0.75   | F or M58 |
| GLS5028F     | 52mm     | F2.8-16    | Ø30mm(3CCD) | 0.5m                              | 46.5mm in air | M46 x 0.75  | F-Mount  |
| GLS5526F     | 54.6mm   | F2.6-16    | Ø44mm       | 146mm(x0.067)-163.6mm(x0.35) only | 46.5mm in air | M67 x 0.75  | F-Mount  |
| GLS8556M+ADP | 85mm     | F5.6-32    | Ø58mm       | 0.8m                              | -             | possible    | T        |
| GLS10028F    | 100mm    | F2.8-32    | Ø43mm       | 0.3m                              | 46.5mm in air | M55 x 0.75  | F-Mount  |



\*Specifications are subject to change without prior notice