

HC-V Series

High Resolution FA/MV Lenses

Kowa's new HC-V series is made for use in high vibration and shock environments. With a design based on Kowa's standard 1" HC lenses, this new ruggedized megapixel lens series is ideal for applications that require increased durability and high optical performance.

Features of HC-V Series

- ▶ For megapixel applications requiring a sensor size of 1" (Φ16mm).
- ▶ Unique mechanical design to guard against strong vibration and shock.
- ▶ Two way reversible nut is utilized to tightly lock the focus adjustment ring in place.
- ▶ All internal glass elements are glued to the inside housing to improve stability.
- ▶ Interchangeable iris plates are used to select the F-stop.



Interchangeable Iris Plates

- The HC-V series uses interchangeable iris plates instead of mechanical iris diaphragms with moving blades. You can choose from four iris plates to adjust the F-stop.



Interchangeable Iris Plates

Focus Adjustment Procedure

- Unscrew the bottom ring of the outside body to adjust the focus to optimal position.
- Screw the red two way reversible nut on the center body towards the bottom ring to lock in the focus.



Two Way Reversible Nut

LM8HC-V



1" 2/3" 1/1.8" 8mm FIXED MEGA C-mount METAL RUGGED
Fixed Focal Megapixel C-mount Metal Body Rugged lens

LM12HC-V



1" 2/3" 1/1.8" 12.5mm FIXED MEGA C-mount METAL RUGGED
Fixed Focal Megapixel C-mount Metal Body Rugged lens

LM16HC-V



1" 2/3" 1/1.8" 16mm FIXED MEGA C-mount METAL RUGGED
Fixed Focal Megapixel C-mount Metal Body Rugged lens

LM25HC-V



1" 2/3" 1/1.8" 25mm FIXED MEGA C-mount METAL RUGGED
Fixed Focal Megapixel C-mount Metal Body Rugged lens

LM35HC-V



1" 2/3" 1/1.8" 35mm FIXED MEGA C-mount METAL RUGGED
Fixed Focal Megapixel C-mount Metal Body Rugged lens

LM50HC-V



1" 2/3" 1/1.8" 50mm FIXED MEGA C-mount METAL RUGGED
Fixed Focal Megapixel C-mount Metal Body Rugged lens

Model	LM8HC-V	LM12HC-V	LM16HC-V	LM25HC-V	LM35HC-V	LM50HC-V
Focal Length (mm)	8	12.5	16	25	35	50
Image Size (mm)	12.8×9.6 (Φ16)	12.8×9.6 (Φ16)	12.8×9.6 (Φ16)	12.8×9.6 (Φ16)	12.8×9.6 (Φ16)	12.8×9.6 (Φ16)
Iris Range (F-stop)	F1.4 / F2.8 / F4 / F8	F1.4 / F2.8 / F4 / F8	F1.4 / F2.8 / F4 / F8	F1.4 / F2.8 / F4 / F8	F1.4 / F2.8 / F4 / F8	F1.4 / F2.8 / F4 / F8
Focusing Range (m)	0.1-∞	0.3-∞	0.3-∞	0.3-∞	0.3-∞	0.5-∞
Control Iris	-	-	-	-	-	-
Focus	Manual	Manual	Manual	Manual	Manual	Manual
Shooting Range at M.O.D. (mm)	196.0(H)×143.0(V)	330.6(H)×243.5(V)	251.5(H)×186.2(V)	160.7(H)×119.2(V)	110.1(H)×82.0(V)	121.8(H)×91.3(V)
Angle of View	1 Inch 79.7×63.0	55.6×42.5	44.3×33.6	29.3×22.0	20.9×15.8	14.5×10.8
View	2/3 Inch 58.3×44.7	39.1×29.5	30.8×23.2	20.2×15.1	14.4×10.8	10.0×7.5
(Degrees)	1/1.8 Inch 48.5×36.9	32.1×24.2	25.3×19.0	16.5×12.4	11.8×8.8	8.2×6.2
TV Distortion (%)	-1.2	-1.58	-1.0	-1.0	-0.5	0.05
Back Focus in Air(mm)	11.2	12.6	12.6	16.5	16.8	14.8
Mount	C-mount	C-mount	C-mount	C-mount	C-mount	C-mount
Filter Thread (mm)	M55×P0.75	M35.5×P0.5	M35.5×P0.5	M35.5×P0.5	M35.5×P0.5	M40.5×P0.5
Size (mm)	Φ58×58	Φ44×51.5	Φ44×53	Φ44×43	Φ46×44.1	Φ50×48
Weight(g)	183	130	120	104	133	170
Temperature Range	-10°C→+50°C	-10°C→+50°C	-10°C→+50°C	-10°C→+50°C	-10°C→+50°C	-10°C→+50°C

† Images may differ from the actual product.

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