

Kowa

Ruggedized Megapixel Lenses

JCM-V SERIES

HIGH RESOLUTION FA LENS



Kowa's new JCM-V series is made for use in high vibration and high shock environments.

With a design based on Kowa's standard 2/3" JCM lenses, this new ruggedized megapixel lens series is ideal for applications that require increased durability and high optical performance.

- For megapixel applications requiring a sensor size of 2/3" (Ø11mm) or smaller.
- 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.

FOR HIGH VIBRATION & SHOCK ENVIRONMENTS

2/3" Megapixel Anti-Vibration and Shock

The new series allows **measurements without pixel deviation** even in high vibration and shock environments and when the lenses are tilted.



LM8JCM-V

2/3" 1/1.8" 1/2" 8mm

FIXED MEGA C-mt
Fixed Focal Megapixel C-mount

METAL
Metal Body



LM12JCM-V

2/3" 1/1.8" 1/2" 12mm

FIXED MEGA C-mt
Fixed Focal Megapixel C-mount

METAL
Metal Body



LM16JCM-V

2/3" 1/1.8" 1/2" 16mm

FIXED MEGA C-mt
Fixed Focal Megapixel C-mount

METAL
Metal Body



LM25JCM-V

2/3" 1/1.8" 1/2" 25mm

FIXED MEGA C-mt
Fixed Focal Megapixel C-mount

METAL
Metal Body



LM35JCM-V

2/3" 1/1.8" 1/2" 35mm

FIXED MEGA C-mt
Fixed Focal Megapixel C-mount

METAL
Metal Body



LM50JCM-V

2/3" 1/1.8" 1/2" 50mm

FIXED MEGA C-mt
Fixed Focal Megapixel C-mount

METAL
Metal Body

Model	LM8JCM-V	LM12JCM-V	LM16JCM-V	LM25JCM-V	LM35JCM-V	LM50JCM-V
Focal Length (mm)	8	12	16	25	35	50
Image Size (mm)	8.8x6.6 (Ø11)	8.8x6.6 (Ø11)	8.8x6.6 (Ø11)	8.8x6.6 (Ø11)	8.8x6.6 (Ø11)	8.8x6.6 (Ø11)
Iris Range (F-stop)	F1.4/F4/F8/F16	F1.4/F4/F8/F16	F1.4/F4/F8/F16	F1.4/F4/F8/F16	F2.0/F4/F8/F16	F2.8/F4/F8/F16
Focusing Range (m)	0.1~∞	0.15~∞	0.2~∞	0.2~∞	0.2~∞	0.2~∞
Control	Iris: Manual Focus: Manual	Iris: Manual Focus: Manual	Iris: Manual Focus: Manual	Iris: Manual Focus: Manual	Iris: Manual Focus: Manual	Iris: Manual Focus: Manual
Shooting Range at M.O.D. (mm)	120.3(H)x90.0(V)	110.0(H)x82.5(V)	112.8(H)x84.4(V)	71.1(H)x53.3(V)	47.9(H)x35.8(V)	29.3(H)x21.9(V)
Angle of view (degrees)	2/3 Inch: 56.5x43.9 1/1.8 Inch: 47.4x36.3 1/2 Inch: 42.6x32.5	2/3 Inch: 38.3x29.1 1/1.8 Inch: 31.7x24.0 1/2 Inch: 28.3x21.4	2/3 Inch: 30.0x22.7 1/1.8 Inch: 24.7x18.6 1/2 Inch: 21.8x16.4	2/3 Inch: 19.6x14.8 1/1.8 Inch: 16.1x12.1 1/2 Inch: 14.0x10.5	2/3 Inch: 14.4x10.8 1/1.8 Inch: 11.8x8.8 1/2 Inch: 10.5x7.9	2/3 Inch: 9.6x7.2 1/1.8 Inch: 7.9x5.9 1/2 Inch: 7.0x5.2
TV Distortion (%)	-0.6	-0.07	-0.05	-0.04	-0.2	-0.03
Mount	C-mount	C-mount	C-mount	C-mount	C-mount	C-mount
Filter Thread (mm)	M27xP0.5	M27xP0.5	M27xP0.5	M27xP0.5	M27xP0.5	M27xP0.5
Size (mm)	Ø33.0x41.6	Ø33.0x37.0	Ø33.0x36.5	Ø33.0x39.5	Ø33.0x37.8	Ø33.0x56.2
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



Variable step up ring

The conventional locking screw system for fixing adjustable iris blades has been replaced with a system that utilizes robust interchangeable iris plates to set the F-Stop.



Double nut way

The conventional locking screw system for fixing the focus ring position has been replaced with a system that utilizes a two way reversible nut to lock in the focus position.

Images may differ from the actual product.

Kowa

Ruggedized Megapixel Lenses

HC-V SERIES

H I G H R E S O L U T I O N L E N S



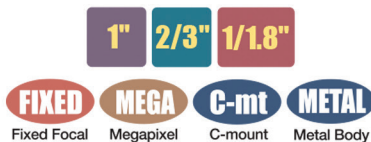
**FOR HIGH
VIBRATION
& SHOCK
ENVIRONMENTS**

Kowa's new HC-V series is made for use in high vibration and high 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.

- For megapixel applications requiring a sensor size of 1" (Φ16mm) or smaller.
- 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.

1" Megapixel Anti-Vibration and Shock



The new series allows measurements without pixel deviation even in high vibration and shock environments and when the lenses are tilted.



Model	LM8HC-V	LM12HC-V	LM16HC-V	LM25HC-V	LM35HC-V	LM50HC-V
Focal Length (mm)	8	12	16	25	35	50
Image Size (mm)	12.8x9.6 (Φ16)	12.8x9.6 (Φ16)	12.8x9.6 (Φ16)	12.8x9.6 (Φ16)	12.8x9.6 (Φ16)	12.8x9.6 (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 Manual Focus Manual					
Shooting Range at M.O.D. (mm)	196.0(H)x143.0(V)	330.6(H)x243.5(V)	251.5(H)x186.2(V)	160.7(H)x119.2(V)	110.1(H)x82.0(V)	121.8(H)x91.3(V)
Angle of view (degrees)	2/3 Inch 58.3x44.7 1/1.8 Inch 59.3x44.7 1/2 Inch 48.5x36.9	55.6x42.5 39.1x29.5 32.1x24.2	44.3x33.6 30.8x23.2 25.3x19.0	29.3x22.0 20.2x15.1 16.5x12.4	20.9x15.8 14.4x10.8 11.8x8.8	14.5x10.8 10.0x7.5 8.2x6.2
TV Distortion (%)	-1.2	-1.58	-1.0	-1.0	-0.5	0.05
Mount	C-mount	C-mount	C-mount	C-mount	C-mount	C-mount
Filter Thread (mm)	M55xP0.5	M35.5xP0.5	M35.5xP0.5	M35.5xP0.5	M35.5xP0.5	M40.5xP0.5
Size (mm)	Ø58x58	Ø44x51.5	Ø44x53	Ø44x43	Ø46x44.1	Ø50x48
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

Kowa Optimed Deutschland GmbH
Bendemannstr. 9, 40210 Duesseldorf, Germany
T: +49 (0)211-542184-00
F: +49 (0)211-542184-10
E-mail: lens@kowaoptimed.com
www.kowa.eu/lenses

Kowa Optical Products Co., Ltd.
Sales Office
4th Fl., Toko Bldg. 11-1 Nihonbashi-honcho
4-chome, Chuo-ku, Tokyo 103-0023, Japan
T: +81(3)5651-7061 | F: +81(3)5651-7310
E-mail: opt-cctv@kowa.co.jp
www.kowa.co.jp

Kowa American Corporation
20001 South Vermont Avenue, Torrance,
CA 90502, U.S.A.
T: +1(310)327-1913 | F: +1(310)327-4177
E-mail: customerservice@kowa.com
www.kowa-usa.com

Specifications and availability are subject to change without notice. Images may differ from the actual product.