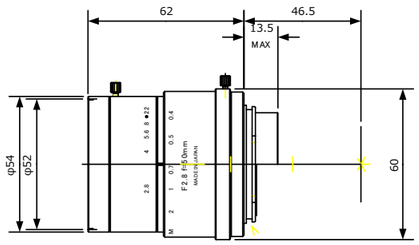
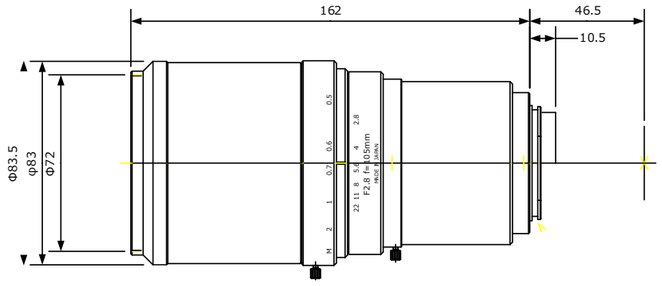
	BV-L1050-M/-F	BV-L1105-M/-F
Image sensor length	30mm	30mm
Flange back (in air)	46.5mm	46.5mm
Focal length	f=50mm	f=105mm
Maximum aperture ratio	F2.8	F2.8
Iris diaphragm range	F2.8 ～ F22	F2.8 ～ F22
Best focusing range (*1)	0.3m ～ 2.0m	0.3m ～ 2.0m
Minimum object distance (*1)	0.3m	0.3m
Angle of view	32.09° @ 2.0m (at image height 15mm)	15.84° @ 2.0m (at image height 15mm)
Spectral wave length range	400nm ～ 900nm	400nm ～ 900nm
Marginal brightness	85.3%	84.3%
Exit pupil	-348.94mm @ 2.0m (from imaging plane)	-186.69mm @ 2.0m (from imaging plane)
Distortion (*2)	0.02% @ 2.0m (in TV indication)	0.004% @ 0.5m ～ 0.12% @ 2.0m (in TV indication)
Applicable pixel size	7μm	7μm
Filter diameter	M52 x P0.75	M72 x P0.75
Mount	M52 mount, Nikon F mount	M52 mount, Nikon F mount
Weight	340g	1010g

(*1) Measured from the lens surface (*2) Specifications are design value.

Notes ・All knobs for fixing lens iris and focus are to be set with the torque value=3cN･m or less.
・We recommend to use jigs to support lens in a case of horizontal position setting.
・We recommend M52 mount for setting the lens in a place where the circumstances of its setting location has more than 3G vibration.



BV-L1050-F



BV-L1105-F

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BlueVision

BlueVision Lenses

For Prism Spectroscopic Visible Light Cameras

Common Features

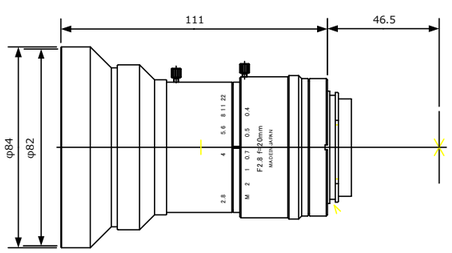
- Designed to be suitable for prism spectroscopic visible light cameras
- New optics designed to improve the longitudinal chromatic aberration (focal point shift for R,G,B channels) and the lateral chromatic aberration (image size difference for R,G,B channels)
- Spectral response extended to near infrared region
- High resolution optics designed for 7μm pixel size (4K sensor)
- Marginal light transmission from 70% to 85% (depends on models)
- F2.8 maximum aperture
- Applicable for 30mm length sensors
- WD (working distance) is 300mm from the front of the lens.
- M52 mount and F mount are available.

BlueVision Co., Ltd.

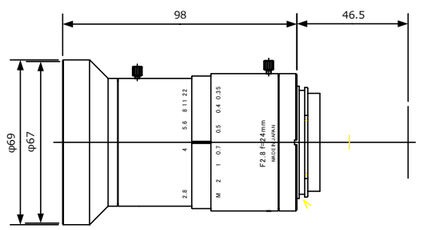
	BV-L1020-M/-F	BV-L1024-M/-F
Image sensor length	30mm	30mm
Flange back (in air)	46.5mm	46.5mm
Focal length	f=20mm	f=24mm
Maximum aperture ratio	F2.8	F2.8
Iris diaphragm range	F2.8 ～ F22	F2.8 ～ F22
Best focusing range (*1)	0.3m ～ 2.0m	0.3m ～ 2.0m
Minimum object distance (*1)	0.3m	0.3m
Angle of view	71.59° @ 2.0m (at image height 15mm)	63.89° @ 2.0m (at image height 15mm)
Spectral wave length range	400nm ～ 900nm	400nm ～ 900nm
Marginal brightness	72.4%	70.3%
Exit pupil	-348.54mm @ 2.0m (from imaging plane)	-391.68mm @ 2.0m (from imaging plane)
Distortion (*2)	0.06% @ 0.5m (in TV indication)	0.13% @ 2.0m (in TV indication)
Applicable pixel size	7μm	7μm
Filter diameter	M82 x P0.75	M67 x P0.75
Mount	M52 mount, Nikon F mount	M52 mount, Nikon F mount
Weight	660g	530g

(*1) Measured from the lens surface (*2) Specifications are design value.

Notes ・All knobs for fixing lens iris and focus are to be set with the torque value=3cN･m or less.
・We recommend to use jigs to support lens in a case of horizontal position setting.
・We recommend M52 mount for setting the lens in a place where the circumstances of its setting location has more than 3G vibration.



BV-L1020-F

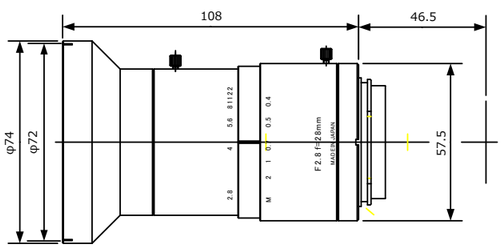


BV-L1024-F

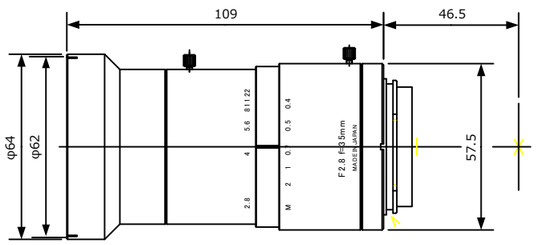
	BV-L1028-M/-F	BV-L1035-M/-F
Image sensor length	30mm	30mm
Flange back (in air)	46.5mm	46.5mm
Focal length	f=28.0mm	f=35mm
Maximum aperture ratio	F2.8	F2.8
Iris diaphragm range	F2.8 ～ F22	F2.8 ～ F22
Best focusing range (*1)	0.3m ～ 2.0m	0.3m ～ 2.0m
Minimum object distance (*1)	0.3m	0.3m
Angle of view	55.23° @ 2.0m (at image height 15mm)	46.22° @ 2.0m (at image height 15mm)
Spectral wave length range	400nm ～ 900nm	400nm ～ 900nm
Marginal brightness	71.7%	78%
Exit pupil	-435.7mm @ 2.0m (from imaging plane)	-416.14mm @ 2.0m (from imaging plane)
Distortion (*2)	0.19% @ 2.0m (in TV indication)	0.11% @ 2.0m (in TV indication)
Applicable pixel size	7μm	7μm
Filter diameter	M72 x P0.75	M62 x P0.75
Mount	M52 mount, Nikon F mount	M52 mount, Nikon F mount
Weight	550g	530g

(*1) Measured from the lens surface (*2) Specifications are design value.

Notes ・All knobs for fixing lens iris and focus are to be set with the torque value=3cN･m or less.
・We recommend to use jigs to support lens in a case of horizontal position setting.
・We recommend M52 mount for setting the lens in a place where the circumstances of its setting location has more than 3G vibration.



BV-L1028-F



BV-L1035-F

Specifications are subject to change without notice.