HCBI023 | DATASHEET



Hypercentric Lens For Bottom Inspection for 2/3" sensors

(mm)

(mm)

(mm)

(mm)

(°)

6.7

2/3″

242.8

474.1

358.7

30

1.6 - 22





Perfect focusing of hollow objects with just one camera For precise and high-resolution simultaneous imaging of the inner walls and bottom of cavities

Cavity inspection from the outside No need to put an optical probe into the hole

Very high field depth and flexibility Cavities featuring different shapes and dimensions can be easily imaged by the same lens

Wide viewing angle, manual focus adjustment and variable iris

Ideal for the inspection of bottles and hollow objects

HC series features hypercentric lenses for sensors up to 1.1" designed for the simultaneous inspection of the inner sides and bottom surfaces of hollow cylindrical samples, such as bottles, cans, vials, containers, pipes and bores.

FIELD OF VIEW

Field of view (diameter x height)

Minimum	(mm x mm)	⊘ = 100.0
Medium	(mm x mm)	⊘ = 160.0
Maximum	(mm x mm)	⊘ = 220.0

Mechanical specifications

Working distance with minimum object size

Working distance with medium object size¹

Working distance with maximum object size¹

NTERNATIONAL

PATENT

SPECIFICATIONS

Image circle

Min sensor size

Viewing angle

 wf/N^2

Optical specifications

NDING

Mount		С
Length ³	(mm)	249.1
Outer diameter	(mm)	84.0
Mass	(g)	1151

¹ Working distance: distance between the front end of the mechanics and the object.

² Working f-number (w*f*/*N*): the real f-number of a lens in operating conditions.

³ Measured from the front end of the mechanics to the camera flange.

COMPATIBLE PRODUCTS

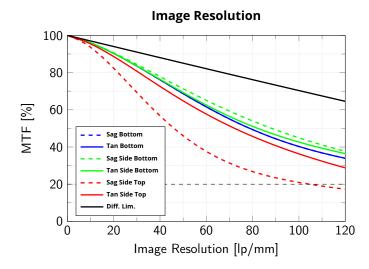
Full list of compatible products available here.

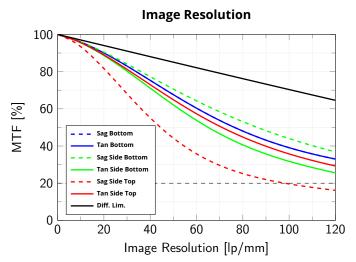


A wide selection of innovative machine vision components.

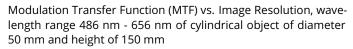
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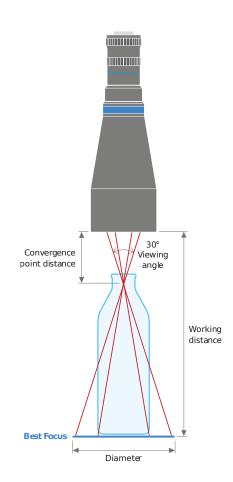




Modulation Transfer Function (MTF) vs. Image Resolution, wavelength range 486 nm - 656 nm of cylindrical object of diameter 110 mm and height of 330 mm



HCBI IMAGING SETUP



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