

PCHIL023 | DATASHEET

Hole inspection lens for 2/3" sensors





SPECIFICATIONS

Optical specifications

Image circle	(mm)	6.6
Min sensor size		2/3"
Working distance with minimum object size ¹	(mm)	5
Working distance with maximum object size ¹	(mm)	62
Viewing angle	(°)	82
Wf/N^2		1.4-close

Mechanical specifications

Focusing		Manual
Mount		С
Length ³	(mm)	115.3
Outer diameter	(mm)	34.0
Mass	(g)	140

- 1 Working distance: distance between the front end of the mechanics and the object.
- Working f-number (wf/N): the real f-number of a lens in operating conditions.
- ³ Measured from the front end of the mechanics to the camera flange.

KEY ADVANTAGES

High-resolution imaging of holed objects from the outside.

Simultaneous view of both the side walls and the bottom of cavities.

Variable iris and large aperture.

Wide range of object diameters and thicknesses.

Wide viewing angle.

Easy and precise manual focusing.

Liquid lens models for fast and remote autofocus.

Opto Engineering® PCHIL series features hole inspection lenses for the inner inspection of cavities and containers in perfect focus.

FIELD OF VIEW

Field of view (diameter x height)

Minimum	(mm x mm)	10.0 x 6.0
Maximum	(mm x mm)	120.0 x 190.0

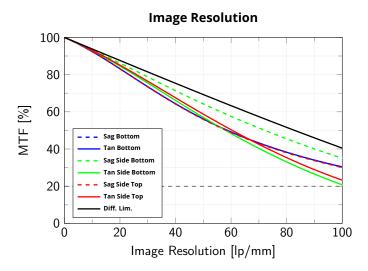
COMPATIBLE PRODUCTS

Full list of compatible products available here.



A wide selection of innovative machine vision components.





Modulation Transfer Function (MTF) vs. Image Resolution (wavelength range 486 nm - 656 nm) of cylindrical object of diameter 30 mm and height of 20 mm

PCHIL IMAGING SETUP

PCHIL optics can image cavities whose diameters and thicknesses span over a wide range of values. PCHIL series features 82° view angle and can image both the inner walls and the bottom of cavities.

