

Boroscopic probe for 2/3" detectors



SPECIFICATIONS

Optical specifications

Image circle	(mm)	7
Max sensor size		2/3"
Viewing angle	(°)	60
wf/N^1		18
Focusing		Manual
Light color		white

Electrical specifications

Supply voltage ²	(V)	24
Current ³	(mA)	40
Power consumption ³	(W)	1
Typical pulse voltage ⁴	(V)	40
Max pulse current ⁵	(mA)	100
Peak power consumption	(W)	4
Max pulse duration	(ms)	1
Max duty cycle	(%)	1.5

Mechanical specifications

Mount		C
Phase adjustment		No
Probe length	(mm)	99.9
Total length ⁴	(mm)	112.9
Probe diameter	(mm)	21
Mass	(g)	76

KEY ADVANTAGES

Inspection of cavities from inside

Hidden internal features and defects are clearly viewed

High resolution

The catadioptric design enables the detection of tiny defects over a very wide view angle

Flaw detection

Coarse deformations revealed using direct illumination

Surface defect enhancement

Mixing direct and indirect illumination makes it possible to emphasize tiny and scarcely visible defects.

Small diameter inspection

Now down to 5.5 mm

PCBP probes are used to inspect holed objects such as engine parts, containers and tubes whose hidden features can only be controlled by introducing a probe into the cavity.

Environment

Operating temperature	(°C)	0-40
Storage temperature	(°C)	0-50
Operating relative humidity	(%)	20-85, non condensing
Installation		Indoor use only

Eye safety

Risk group (CEI EN 62471:2010) Risk group 1

¹ working f/N : the real f/N of a lens in operating conditions.

³ Tolerance $\pm 2\%$

³ Used in continuous (not pulsed) mode

⁴ Measured from the front end of the mechanics to the camera flange.

FIELD OF VIEW

Diameter x Height

	(mm x mm)
Minimum	25.0 x 11.0
Maximum	inf x inf

COMPATIBLE PRODUCTS

Full list of compatible products available [here](#).

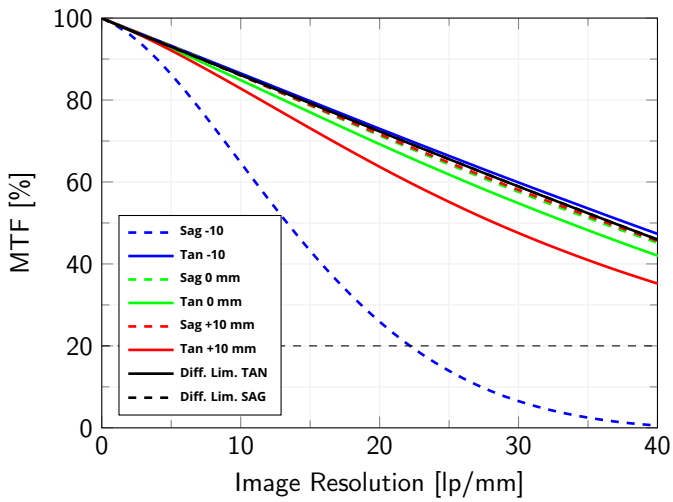


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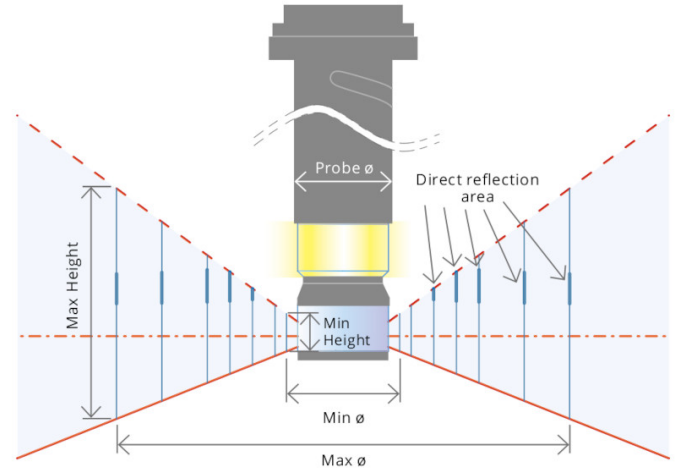
DATA WITH CAVITY DIAMETER OF 40MM

Image Resolution



Modulation Transfer Function (MTF) vs. Image Resolution, wavelength range 486 nm - 656 nm. Fields in legend are represented as distance from the center of the boroscope tip

WORKING PRINCIPLE AND FOV OF PCBP LENSES



ILLUMINATOR PINOUT

Function	Cable color
GND	Black
+24 V	Black/White

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