

## TCEDGE OPTICS

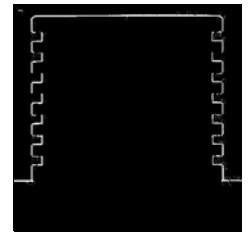
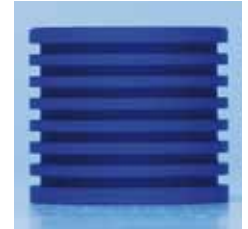
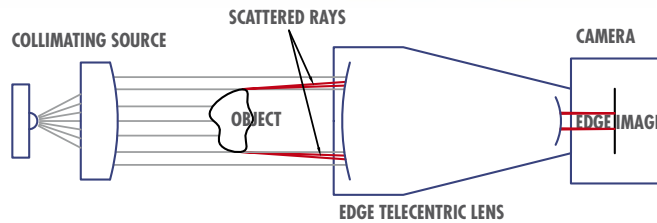
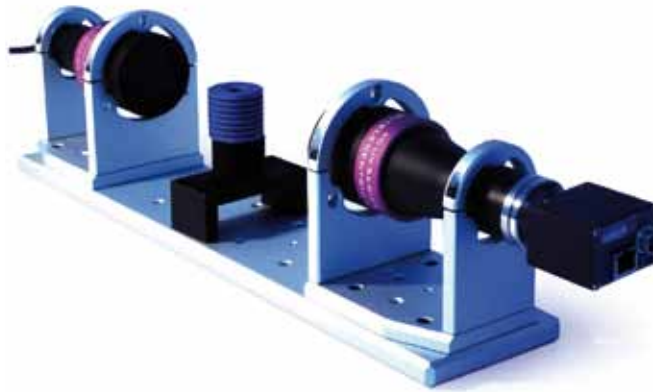
Our Patent Pending **TC EDGE** optics provide a really **REVOLUTIONARY AND UNIQUE** approach to machine vision applications.

A proprietary optical technology ensures that only the rays deviated by an object's edge are imaged on the detector plane: **edges are automatically extracted by the lens system without any need of software algorithms.** This technique makes it possible to enhance even the tiniest defects, particles and surface discontinuities which could not be detected by any other type of lens system.

**TC EDGE optics** integrate Opto Engineering® exclusive **TCUV** telecentric lenses, integrating edge-enhancement features, coupled with OE **LTCLUV** collimating sources.

The optical system also integrates OE mounting mechanics and is supplied as a pre-aligned full optical set.

# Optical edge extraction telecentric systems



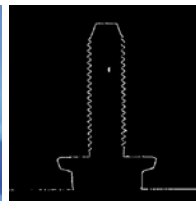
part number	magn. (X)	detector type								
		w (mm)	x (mm)	h (mm)	w (mm)	x (mm)	h (mm)	w (mm)	x (mm)	h (mm)
		4,8	x	3,6	6,4	x	4,8	8,8	x	6,6

part number	magn. (X)	object field of view (mm x mm)								
		w (mm)	x (mm)	h (mm)	w (mm)	x (mm)	h (mm)	w (mm)	x (mm)	h (mm)
<b>TCEDGE36</b>	0,241	19,9	x	14,9	26,6	x	19,9	36,5	x	27,4
<b>TCEDGE48</b>	0,183	26,2	x	19,6	34,9	x	26,2	48,0	x	36,0
<b>TCEDGE56</b>	0,157	30,6	x	22,9	40,8	x	30,6	56,1	x	42,1
<b>TCEDGE64</b>	0,137	34,9	x	26,2	46,6	x	34,9	64,1	x	48,0
<b>TCEDGE80</b>	0,110	43,5	x	32,6	58,0	x	43,5	79,7	x	59,8

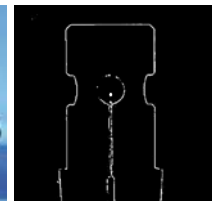
electro-optical specs		
<b>Wavelength range</b>	(nm)	405 nm
<b>DC Voltage</b>	(volt)	12 to 24
<b>Power Consumption</b>	(watt)	< 2 watt
<b>Eye Safety Class</b>		Class IIIb LED product

### UNIQUE DETECTION PERFORMANCES

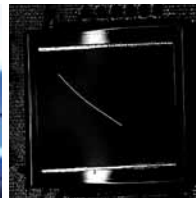
#### 1) FAST MEASUREMENT APPLICATIONS



#### 3) PARTS ALIGNMENT



#### 2) SURFACE DEFECT ENHANCEMENT



#### 4) INCLUSIONS AND DEFECT ENHANCEMENT

