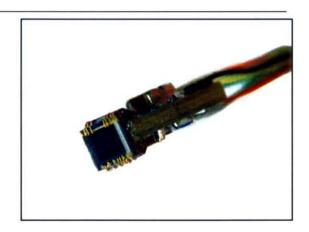


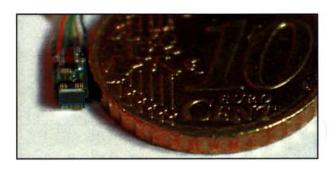
Color CCD MicroCamera Head 1/10"

SMCC10027

Features

- Extremely miniaturized colour CCD camera (2,7 * 2 * 6,7 mm)
- Light Weight (0,20 gr)
- Long length cables driving capability (up to 10 meters)
- High resolution (Ye, Cy, Mg and G complementary colour mosaic filter)
- · High sensitivity and low smear
- No voltage adjustment (Reset Gate and substrate bias are not adjusted)
- Low dark current
- Excellent anti blooming characteristics
- Continuous variable-speed shutter
- Field period readout system
- Variable charge-storage time electronic shutter
- Recommended range of exit pupil distance: -10 mm to -oo





<u>Custom application</u>:
Endoscope camera head in its housing



General Description

The 3D- μ Camera is a highly miniaturized, light weight, high performance and easy-to-use colour CCD Camera for endoscopes applications. The innovative design makes them suitable also for applications in the area of robotics, assembly and mounting devices or manipulators. It embeds state-of-the art Sony colour CCD sensors with high resolution and sensitivity, low smear and dark current, and excellent anti blooming characteristics.

The embedded electronics grant the μ camera with a long cables driving capability: up to 10 meters of cable can be connected between the camera head and the base station. It is available for PAL and NTSC video systems.



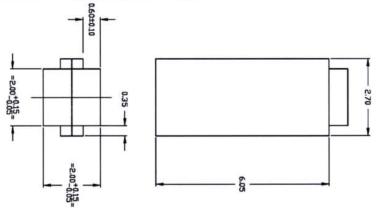
Color CCD MicroCamera Head 1/10"

SMCC10027

Technical features

Features				
Video System:	PAL			
Image Sensor:	Interline 1/10" CCD (290.000 pixels)			
Active Pixel Size :	2,95 μm (H) x 1,90 μm (V)			
Sensor Area:	1,5 mm (H) x 1,1 mm (V)			
Number of picture elements:	PAL 500 (H) x 582 (V)			
	< 2,67 lx at 0 dB			
Sensitivity:	< 0,53 lx at 14 dB			
	(at 20ms integration, 50% video level, Gamma 0,45)			
Spectral sensitivity: (incl. Infrared blocking filter)	380 – 780 nm			
Filter:	Built-in infrared blocking filter			
Environment	5:			
Temperature (operating):	- 10 °C / +45°C			
Relative humidity:	10 to 90 % non-condensing			
Dimensions				
Dimensions:	2,7 * 2 * 6,7 mm			

Mechanical drawing and Pin assignment



References

SONY CCD Image Sensor ICX257FKW (PAL video system).

Main Sales Office

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