

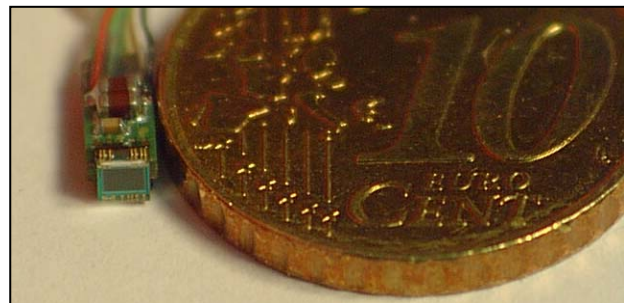
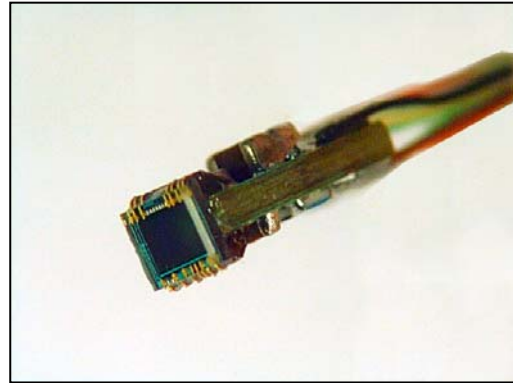


# Color CCD MicroCamera Head 1/10''

## SMCC10028

### 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 filters)
- 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 -∞



- Custom application :  
Endoscope camera head in its housing



### General Description:

The 3D-μCamera 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 μcamera 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.

### Ordering Information:

Part number	Video Format	Cable Length
SMCC10028	P : PAL N : NTSC	- "blank" (No data) : No cable
		- Between 1.0 and 9.9 meters : <b>XX</b> => X,X meters Between 0.10 and 0.99 meters : <b>0XX</b> => 0,XX meters

3D Plus do not provide any optical system (lens or filter) on this product.



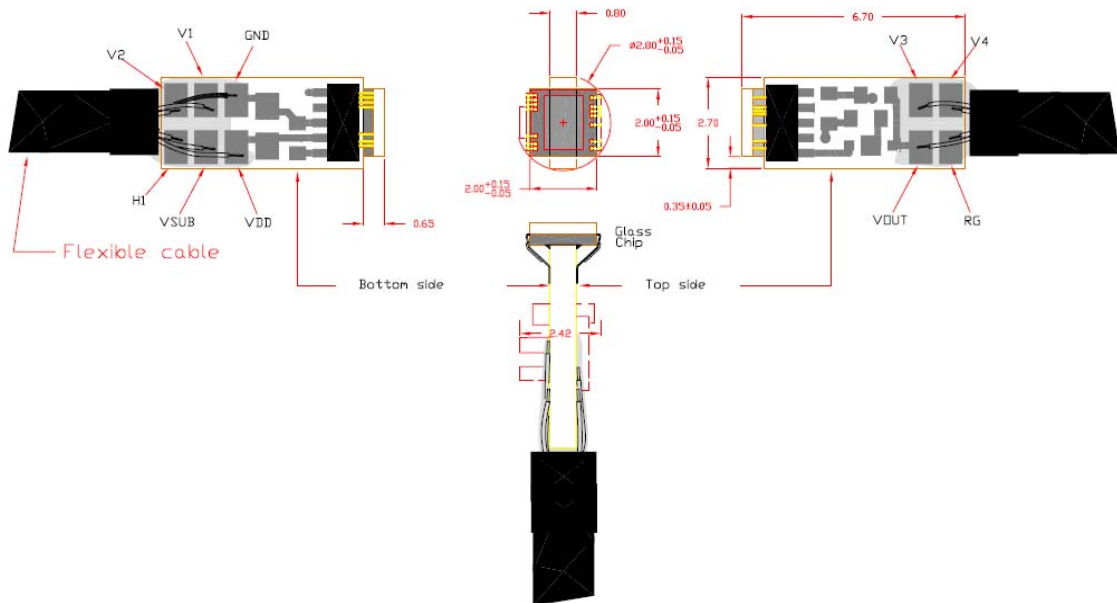
# Color CCD MicroCamera Head 1/10''

## SMCC10028

### Technical features:

Features		
Video System :	PAL	NTSC
Image Sensor :	Interline 1/10'' CCD	
Reference :	SONY CCD Image Sensor ICX257FKW	SONY CCD Image Sensor ICX256FKW
Number of effective pixels :	290 000	250 000
Active Pixel Size :	2.95 $\mu\text{m}$ (H) x 1.90 $\mu\text{m}$ (V)	2.90 $\mu\text{m}$ (H) x 2.25 $\mu\text{m}$ (V)
Sensor Area :	1.5 mm (H) x 1.1 mm (V)	
Number of picture elements :	500 (H) x 582 (V)	510 (H) x 492 (V)
Sensitivity :	< 2,67 lx at 0 dB < 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 :	Ye, Cy, Mg and G complementary colour mosaic filters	
Environment		
Temperature (operating) :	- 10 °C / + 60°C	
Relative humidity :	60 % or less	
Dimensions		
Dimensions :	2,7 * 2 * 6,7 mm	

### Mechanical drawing and Pin assignment:



### Main Sales Office:

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