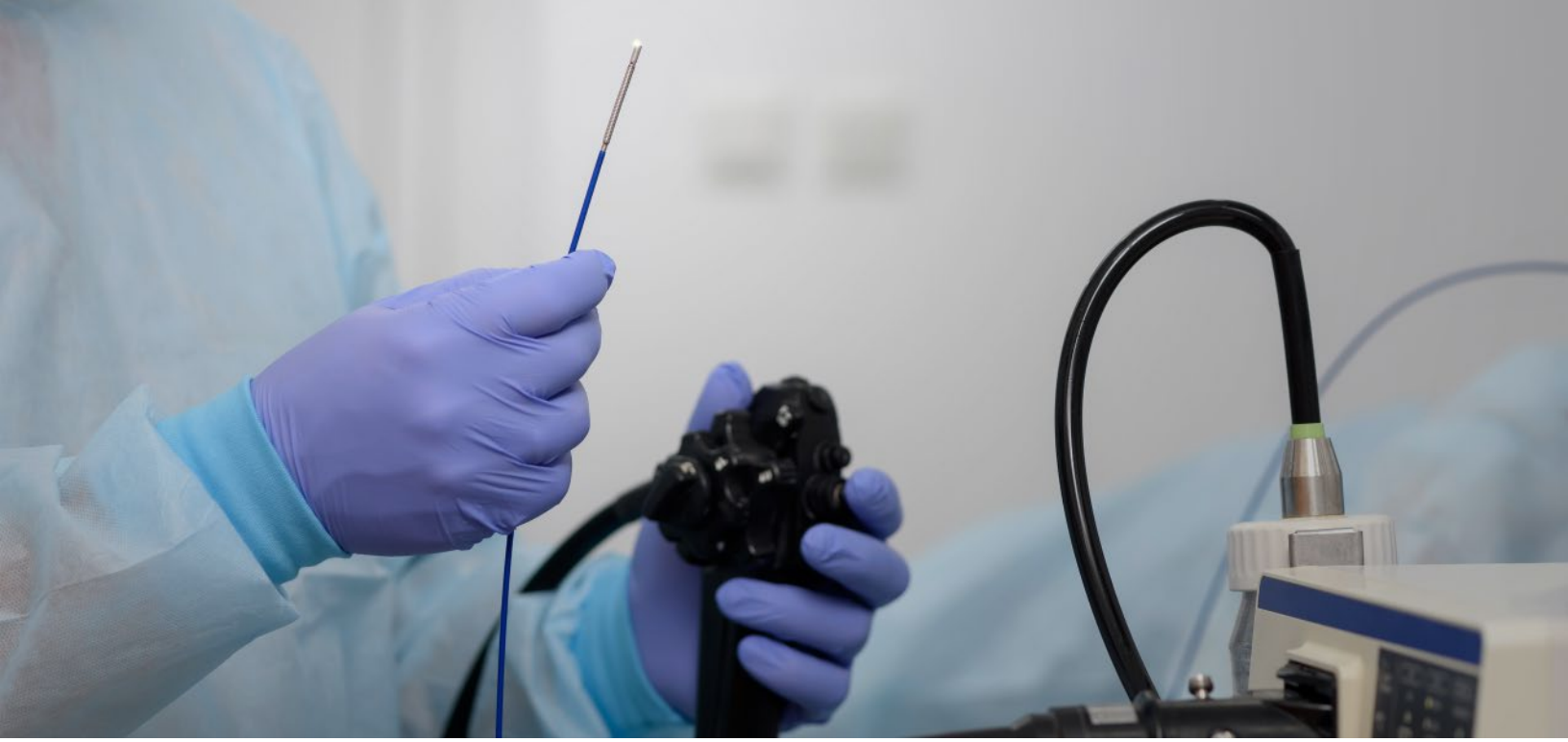


OCHFA20

720 x 720 Product Brief



Color Analog 518 Kpixel (720 x 720) CMOS CameraCubeChip® for Single-Use Endoscopic Cameras

OMNIVISON's OCHFA20 CameraCubeChip® is a 1/17.5" color 518 Kpixel analog camera for the rapidly growing single-use medical endoscope market. It is the same size as the OVM6946 but has higher resolution, and is an ideal upgrade for bronchoscopes, ureteroscopes and hysteroscopes. It can also be used for industrial borescopes.

The OCHFA20 CameraCubeChip® integrates the CMOS image sensor, processor, and lenses in a miniature wafer-level camera module. It features OMNIVISION's PureCel®Plus-S pixel technology, enabling high functionality in the smallest possible die size. With 720 x 720 resolution at 30 frames per second, it provides the best image quality for improved patient outcomes.

Applications

- Single-use medical, dental, veterinarian, and industrial endoscopes

Features

- **Active array size:** 720 x 720
- **Maximum image transfer rate:**
  - 518 Kpixel (720 x 720): 30 fps
  - 360 Kpixel (600 x 600): 40 fps
  - 160 Kpixel (400 x 400): 60 fps
- **Power supply:**
  - Analog: 3.3V ±5%
- **Output interfaces:**
  Serial peripheral interface (SPI)
- **Output formats:** Analog signal output
- **Lens size:** 1/17.537"
- **f no.:** 4.5
- **Diagonal field-of-view (DFOV):** 123°
- **Pixel size:** 1.008 µm x 1.008 µm

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OMNIVISION®
4275 Burton Drive
Santa Clara, CA 95054
USA

Tel: + 1 408 567 3000
Fax: + 1 408 567 3001
www.ovt.com

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