

Hi-tech pill to screen for colon cancer

The U.S. Food and Drug Administration has approved the use of an ingestible camera pill that can help detect early signs of colon cancer



Size: 11x31mm –
U.S. quarter
to scale

Weight:

Less
than 4g

8 hour
journey
through body

▼ HOW PILLCAM WORKS

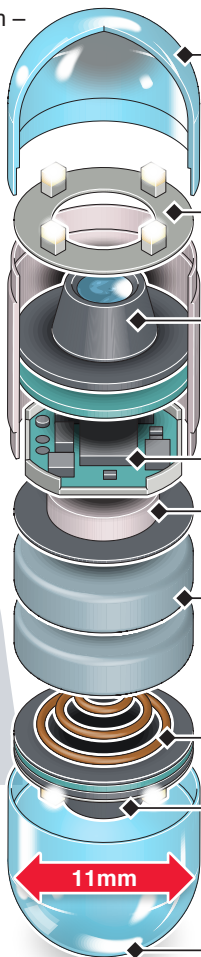
Swallowed by patient and travels
through digestive system



Colon: PillCam films journey
through large intestine, looking for
polyps. Sends video to **PillCam
Recorder** worn on patient's waist

PillCam cost: **\$500**

Colonoscopy cost: **\$4,000**



▶ PILLCAM COLON

*Low-powered,
disposable wireless
system*

Optical dome

Transparent
plastic

Light array: Four
LEDs on each end
of capsule flash
alternately so images
can be taken
forwards and back

Camera: Aptina
MT9S526 5.6-micron
CMOS image sensor,
capable of 4-5
frames per second

Custom chipset

Includes sub-GHz
ISM-band radio

Antenna

30-60cm range

Batteries:

Two
Energizer 399 1.55V,
54-mAh silver-oxide
coin cells

Spring connector

**Second camera
and LED light
array**

Optical dome