

## Complete Colon Coverage on a Single Fly-Through

### Background

The 3D endoscopic fly-through was initially created for clearer identification of polyps and other colon lesions 6 to 8 mm in diameter, which are often hard to detect in 2D images. Because the colon structure is irregular, however, this view results in problematic unseen areas, typically certain folds that may conceal lesions that remain undetected in bidirectional 3D fly-through.

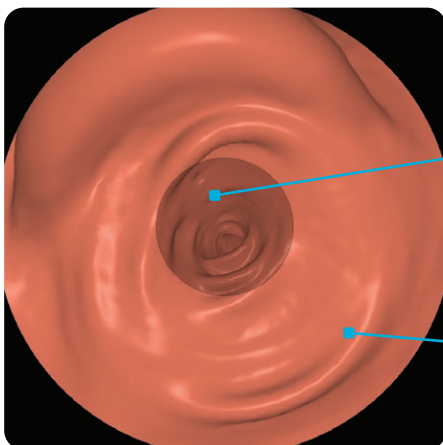
The solution until now for reducing unseen areas has been an enhanced flattened or unfolded 3D view of the colon. Such process, however, introduces visual artifacts into the image, resulting in a less accurate, deceptive representation of the colon and any lesions in it. This visualization also means that radiologists must adjust their reviewing habits.

### Cadens Funnel View

Cadens Imaging has developed the Funnel View to **maintain the traditional 3D perspective, limit distortion, and provide complete colon coverage on a single fly-through.**

Such a view has numerous advantages for users:

- Savings in time because only one fly-through is needed to cover the entire colon.
- Optimal detection conditions because all areas are explored and there is at least twice as much exposure time for any potential lesion.
- Ease of reading maintained because the traditional 3D perspective is preserved and there is little distortion of lesions.



Traditional 3D perspective at the centre of the Funnel View

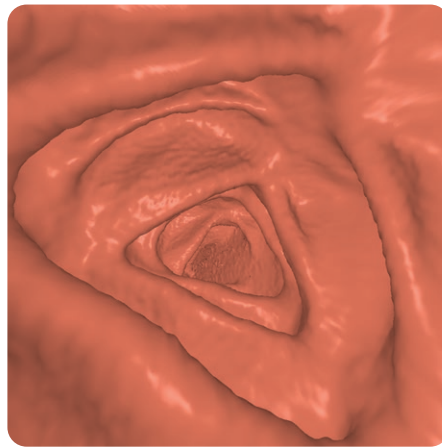
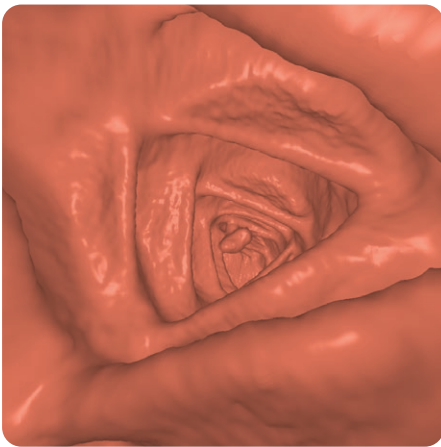
- Ease of reading maintained.

Both sides of each fold are displayed at the periphery of the Funnel View.

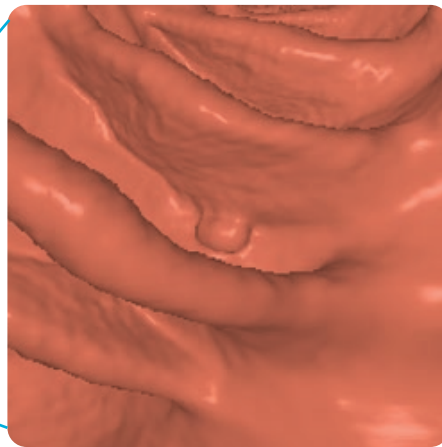
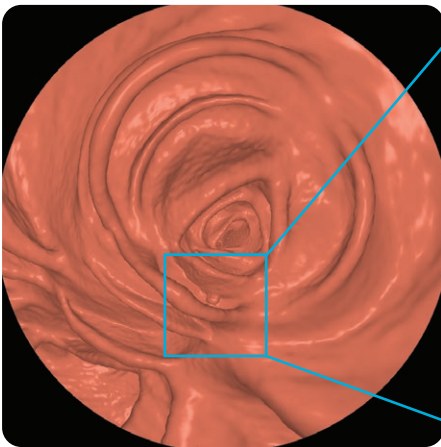
- No unseen areas.

## Illustration

The figure below clearly illustrates the advantage of the Funnel View because, in this example, a 6 mm abnormality concealed behind a fold is completely invisible with a traditional 3D endoscopic view, but evident with the Funnel View.



A 6 mm abnormality is located in the fold in the foreground but remains concealed in retrograde (at left) and antegrade (at right) 3D Fly-Through.



The Funnel View not only reveals the abnormality behind the fold, but displays it on the screen for several seconds as the colon turns back on itself.

## Radiological Perspective

*"The Funnel View is truly revolutionary. You can see everything quickly and tell exactly where it is. It is both convenient and reassuring. Its advantages are especially evident in the splenic and hepatic views, where the Funnel View reveals all of the areas that are traditionally difficult to explore because of the colon's tortuosity."*

*Dr. Sophie Laplante, Imagix – Radiologie Laënnec, Ville Mont-Royal, Quebec, Canada*