



# Xenics Products for InVivo Imaging

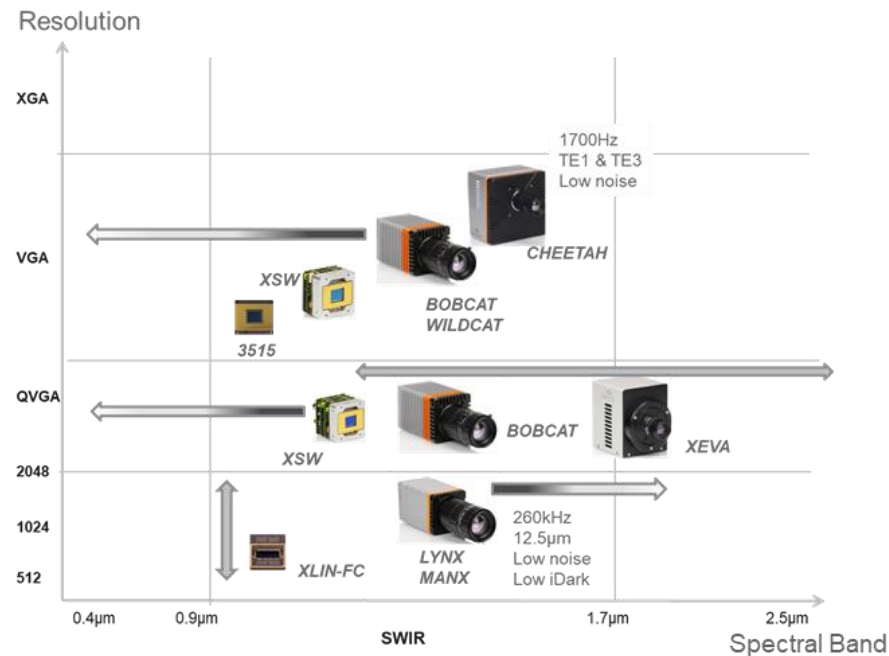
Marc Larive

EPIC Online Technology Meeting on in-vivo Imaging 4 May 2020

# Xenics activities



- Independent supplier of infrared cameras and detectors
- Europe's leading supplier of SWIR InGaAs imaging detectors

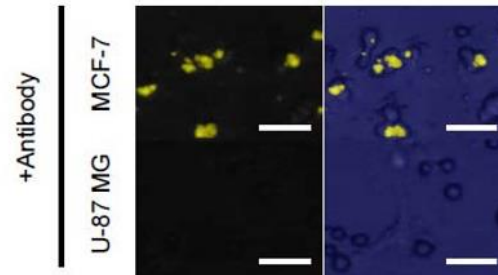


# Xenics for In Vivo Imagery

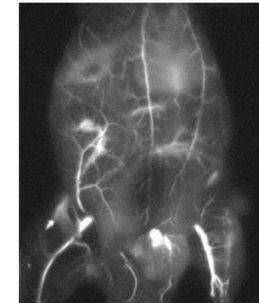


- SWIR Photoluminescence

- Xeva 320
- Xeva 640
- Bobcat 640
- Wildcat 640



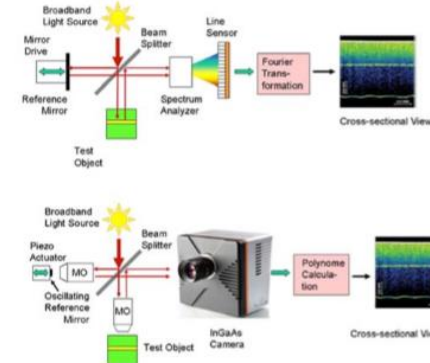
Tamotsu Zako, et al., Royal Society of Chemistry 2013



[www.an.shimadzu.co.jp/bio/sai-1000.htm](http://www.an.shimadzu.co.jp/bio/sai-1000.htm)

- SWIR OCT

- Cheetah 640x512 1700Hz
- Lynx R 2048



(Source of cross sectional image: Fraunhofer ILT)

# New horizon for OCT: Manx R



- OCT is looking for:
  - Rectangular Linescan
  - High Speed
  - Low noise

- MANX R

- High resolution (2048 pixels):
  - *improves OCT resolution*
- Rectangular pixels 12.5x250  $\mu\text{m}^2$ 
  - *Better sensitivity and easy alignment*
- Highest speed: 260 Kfps
  - *Faster scanning*
  - *Faster acquisition*



Released  
today

- Low noise: 350 e-  
and  
Dynamic range: up to 70dB
  - *Better SNR*
- Four gains: from 290ke- to 35Me-
  - *Flexibility*

