

Notional System



Focal Plane Array

Snellen Acuity of approximately 20/38 requires:

- 1280 X 1024 pixel array
- 40 degree horizontal Field of View
 - 1280 pixels provides for 640 cycles (one on/one off)
 - 640 cycles in 40 degrees = 16 cycles/degree
 - $(16 \text{ cycles/degree})(1 \text{ degree}/17.45 \text{ mRad}) = 0.91 \text{ cycle/mRad}$
 - $34.4 / (0.91 \text{ cycle/mRad}) = 38$
 - S.A. = 20/38



Snellen Acuity of approximately 20/20 requires:

- ~2000 X 2000 pixel array
- 40 degree horizontal Field of View