Height of an average human head:
Male: 9.4 in / 23.9 cm for 99th percentile
   8.6 in / 21.8 cm for 50th percentile
Female: 9.4 in / 23.9 cm for 99th percentile
   8.6 in / 21.8 cm for 50th percentile

Source:  
http://upload.wikimedia.org/wikipedia/commons/6/61/HeadAnthropometry.JPG

Distance from eyes to tablet at a “relaxed” (elbows at 90 degrees) posture:
43 cm / 17 in

Diagonal Field Of View (DFOV) of webcam:
60 degrees

Aspect ratio:
16 : 9

Length of diagonal of image at given distance and DFOV:
d = 2 * 43 * tan(0.5 * 60) = 49.65 cm / 19.55 in

Height of width image at given distance and DFOV:
(16*x)^2 + (9*x)^2 = (49.65)^2
→ x = 2.7046
→ height = 9*x = 24.34 cm / 9.58 in, width = 16*x = 43.27 cm / 17.04 in

Resolution: 720p (1280 x 720)
720p / 9.58 in = 75 pixels / inch

Bounding box of human eye:
height = 2 in
width = 2.5 in

At 75 pixels per inch, the resolution of the eye area will be ~ 187 x 150.

To calculate an approximate expected visual angle at this resolution:

Average radius of human eye = 12 mm
75 px / in gives 0.339 mm per pixel
Using inverse tangent, this gives a visual angle of 1.62 deg per pixel
This value is less than 2 deg, the ideal specification for visual angle.