http://prometheus.med.utah.edu/~marclab/protocols.html

Mouse Schematic Eye

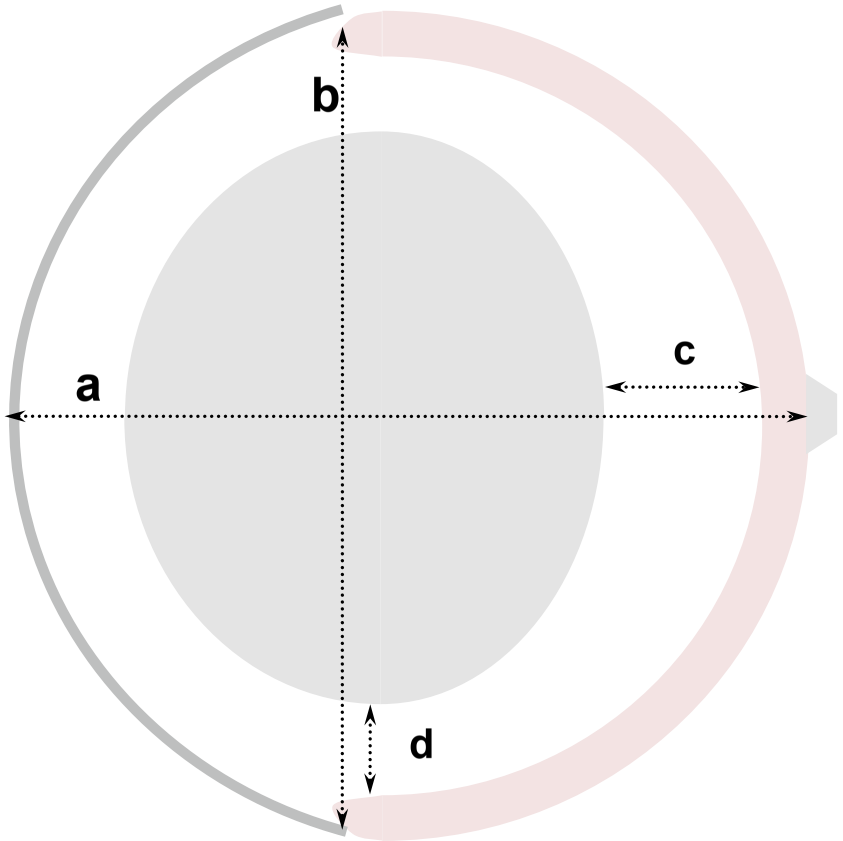
Remtulla & Hallet 1985 Vis Res 25: 21-31

1.0 mm

Key measures

a 3.37 mm length	
b 3.32 mm diameter	
c 0.59 mm	
d 0.36 mm	
aqueous vol	4.4 μl
vitreous vol	5.3 μl
retinal subtense	31 μm/deg
retinal arc	4.9 mm
retinal area	15.6 mm^2
cone:rod ratio	0.028
mean cone density*	12,147 ± 2025 mm^{-2}
mean rod density*	430,153 ± 75,155 mm^{-2}

*Jeon et al. 1998 J Neurosci 18:8936–8946



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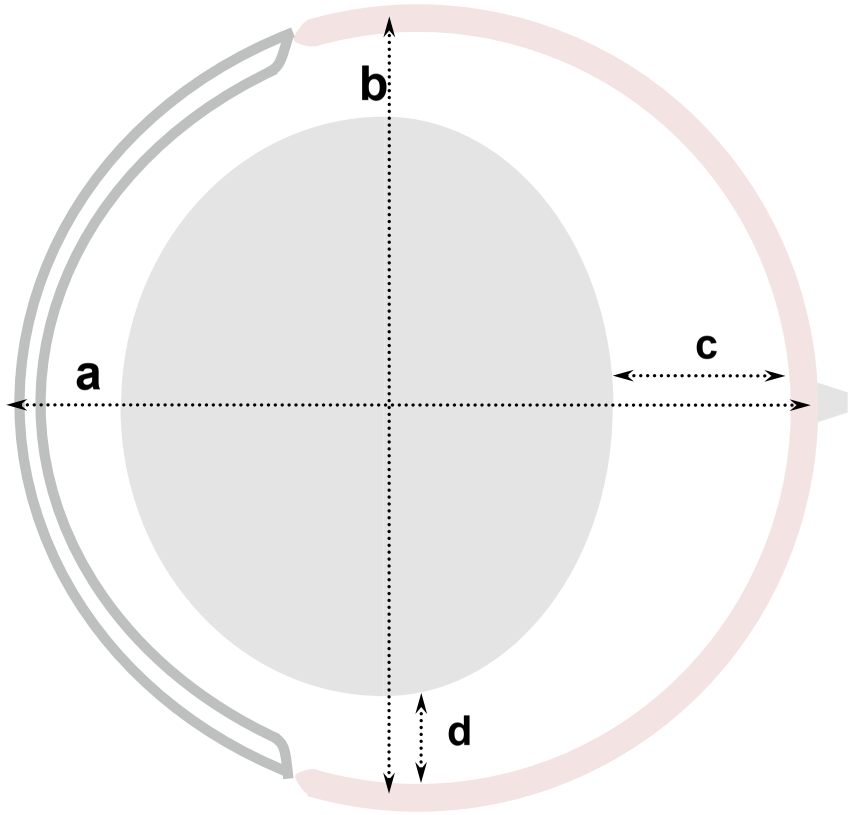
Rat Schematic Eye

Hughes 1979 Vis Res 19: 569-588

1.0 mm

Key measures

a	6.29 mm	length
b	6.41 mm	diameter
c	1.4 mm	
d	0.68 mm	
aqueous vol	13.6 μl	
vitreous vol	54.4 μl	
retinal subtense	59 μm/deg	
retinal arc	10.6 mm	
retinal area	52 mm^2	
cone:rod ratio		
mean cone density*	mm^{-2}	
mean rod density*	mm^{-2}	



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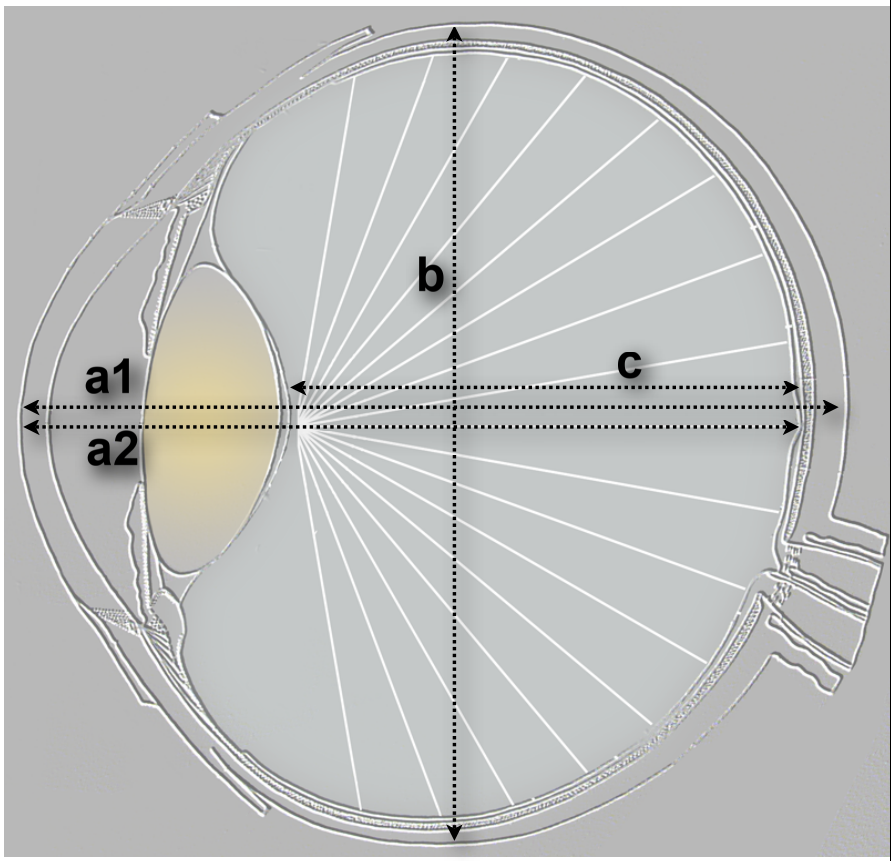
Human Schematic Eye

Oyster, The Human Eye, Raven Press 1999

10 mm

Key measures

a1 24 mm length	
b 28 mm diameter	
c 16.78 mm	
a2 22.22 mm	
aqueous vol	260 μl
vitreous vol	5.2 ml
retinal subtense	300 μm/deg
retinal arc	51 mm
retinal area*	1024 ± 184 mm^2
total cone:rod ratio*	17.7
total cone count*	$3.25 \times 10^6 \pm 618 \times 10^5$
total rod count*	$57.4 \times 10^6 \pm 10.5 \times 10^6$
foveal cone density	200×10^3 mm^{-2}
20 deg cone density	5×10^3 mm^{-2}
20 deg rod density	150×10^3 mm^{-2}



*Panda-Jonas S, JB Jonas, M Jakobczyk, U Schneider Retinal photoreceptor count, retinal surface area, and optic disc size in normal human eyes. Ophthalmology. 1994 101:519-23.