

$$\text{longitude} = i 2\pi / W$$

$$\text{latitude} = \arctan\left[\left(j - \frac{H}{2}\right) \tan\left(\frac{\theta_v}{2}\right) / \left(\frac{H}{2}\right)\right]$$

Camera position

Left eye

$$x = e \sin(\text{longitude})$$

$$y = e \cos(\text{longitude})$$

$$z = 0$$

Right eye

$$x = e \sin(\text{longitude} + \pi)$$

$$y = e \cos(\text{longitude} + \pi)$$

$$z = 0$$

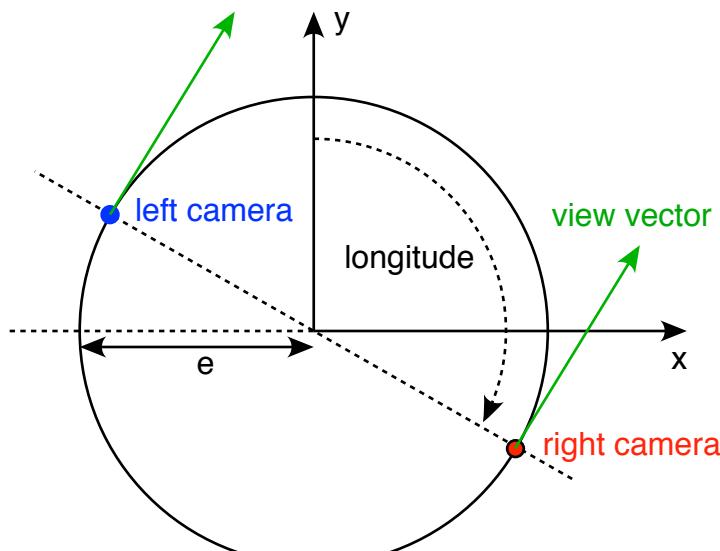
View vector, perpendicular to circle

$$x = \cos(\text{longitude})$$

$$y = -\sin(\text{longitude})$$

$$z = \left(j - \frac{H}{2}\right) \tan\left(\frac{\theta_v}{2}\right) / \left(\frac{H}{2}\right)$$

Top view



Side view

