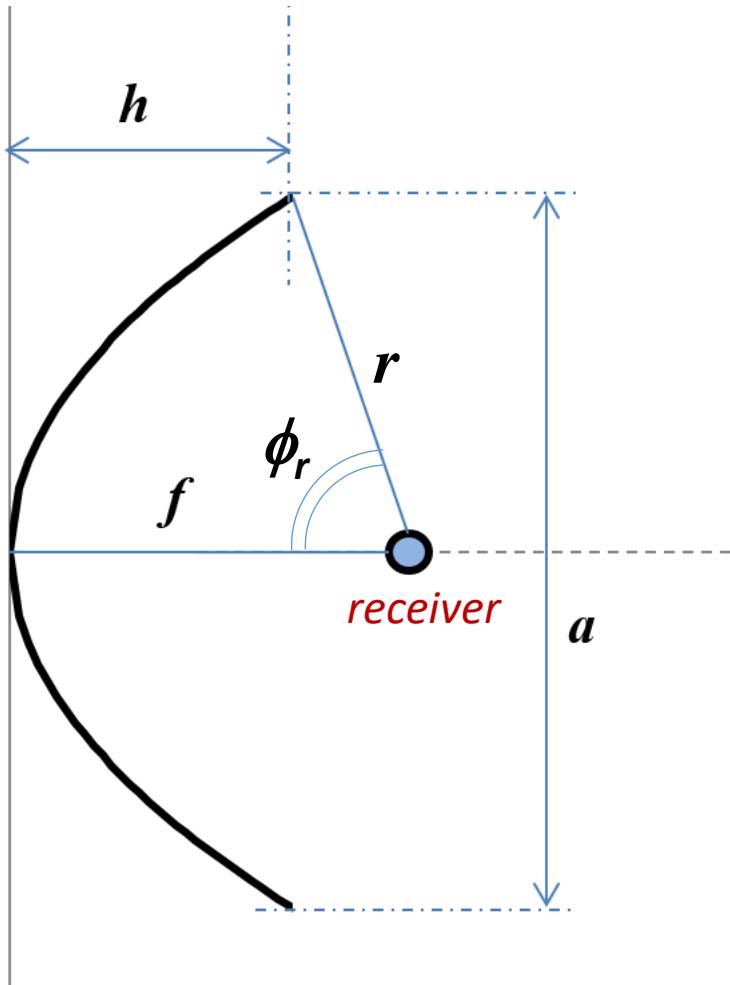


Parabola Cheat Sheet



h – parabola height
 a – aperture
 f – focal distance

r – rim radius
 ϕ_r – rim angle

$$h = \frac{a^2}{16f}$$

Relationship among height, aperture, and focal distance

$$\phi_r = \tan^{-1} \left[\frac{8(f/a)}{16(f/a)^2 - 1} \right]$$

Relationship among aperture, focal distance, and rim angle

$$r = \frac{2f}{1 + \cos \phi}$$

Relationship focal distance, rim angle, and rim radius (this formula is true for any point on the parabola)