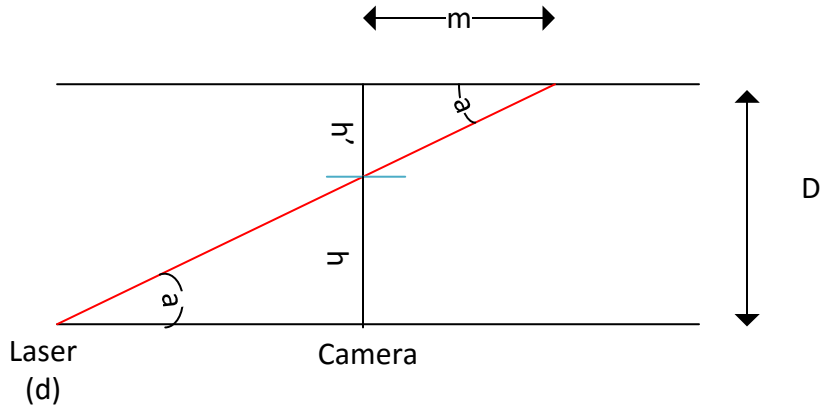

D = known distance to reference wall
m = measured distance between reference line and object point

Tan(a) = D/(d+m)
Tan(a) = h'/m

...therefore...

D/(d+m) = h'/m

...therefore...

h'=D*m/(d+m)

h = D - h' = D – D*m/(d+m)

"h" is the distance from the camera to the object laser point.