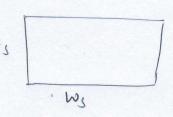
where, wo = working distance ly = focal length of lens. HI, WI = Height and width of image respectively. Hs, ws = Height and width of sensor respectively. HIO, WIO = Height and width of object in image

for Realsense LIDAR LSIS camera,

Focal length (4) = 1.88 mm. sensor with (Ws) = 2.46 mm sensor height (Hs) = 1.383 mm



for image of resolution (1280, 720),

1 Ho = WDX HIOX 1.383 1.88x 720

a, Ho = 0.001022 x wox HIO 1.0217x10-3

2) WO = WOX WIOX 2.46 1.88×1280

a, No = 0.00L022 X WDX W IO

a Wo = L. 0222X10-3 X WDX WID

720 HI WI

for image of resolution (1920×1080)

(1) Ho = WOXHIOX Lo383 1.88×1080

Ho = 6.811×10-4×WDXHIO

1080 2) WO = WDX WIOX 2046 1.88 × 1020

NO = 6.815 XID - X WDX WIO