EXPERIMENT 3

Aim: To find camera's sensitivity to different light intensity levels

★ When night vision / IR is off

Serial No	Distance (in ft)	Intensity of Light (in lux)	Picture Clarity
1	17	142	Clear
2	17	89.8	Clear
3	17	19.5	Clear
4	10	6.6	Clear
5	10	0.7	Clear



Fig 1: Light intensity is 142 lux



Fig 2: Light intensity is 89.8 lux

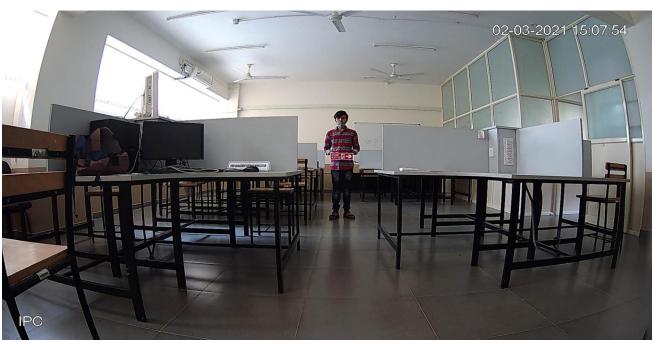


Fig 3: Light intensity is 19.5 lux



Fig 4: Light intensity is 6.6 lux

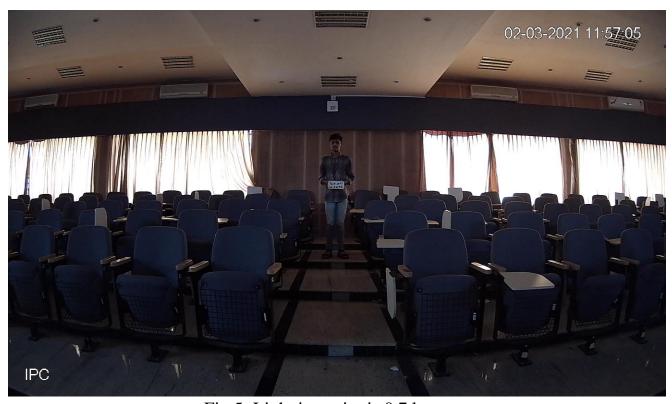


Fig 5: Light intensity is 0.7 lux

\star When night vision / IR is on

Serial number	Place of the object	Picture Clarity
1	At line of sight	Clear
2	At last point of visibility (left)	Not Clear
3	At last point of visibility (right)	Not Clear



Fig 6: Image at Normal Reference Point



Fig 7: At last point of visibility (left)



Fig 8: At last point of visibility (right)

\star Varying the distance of the object from the camera at 0.7 lux

Serial number	Distance (in ft)	Picture Clarity
1	6.541	Clear
2	15.53	Clear
3	21.67	Partially Clear



Fig 9: Clear image at a distance of 6.541 ft



Fig 10: Clear image at a distance of 15.53 ft



Fig 11: Partially clear image at a distance of 21.67 ft