SAURABH KUMAR SC22B146 CMOS Camera Senson

the charge to a single amplifier

· Charge coupled Device.

· Each charge in each pixels are transferred using horizontal and vertical shift registers, then converted to voltage and amplified

· Not possible to integrate peripherals like times and ADC, in the main senson, nequired additional chip and thus large size.

· Requires different power supplier, typically 7-10 V, thus consuming mose power.

· Low priocessing speed as each pixel is puccessed one-by-one.

· Large fill factor, noise and

· Better came la quality.

· Use global shutter.

· Suffer from smear.

· Image distortion due to blooming.

· Have passive filters that fransfor. Have active pixels that amplify the charge in each pixel.

· Complementary Metal oxide semiconductor.

· Charge to voltage conversion and amplification are cavoued out in the fixels itself.

· tabrication procedure is very similar to that of ic, it is possible to integrate peripheral components into single dup, Thus, possible to have camera on chip or Soc.

· Requires single jower supply, typically 3.3-5 V, thus consuming less power.

· High speed as processing is carrowed out in the pixel itsey.

· Low fill factory, noise and sensitivity.

Cheaper, energy efficient

· Use nolling shutter.
· Affected by skew, wobble of partial exposure.