

## CMOS image sensor

photodiode  
array

AMP

ADC

*RAW*

## Imaging Pipeline

demosaicing

denoising

color mapping

gamut mapping

tone mapping

compression

*RGB*

## CPU or GPU

Tracking  
Algorithms

```
graph LR; subgraph CMOS_image_sensor [CMOS image sensor]; PDA[photodiode array] --> AMP[AMP]; AMP --> ADC[ADC]; end; ADC -- RAW --> subgraph Imaging_Pipeline [Imaging Pipeline]; direction TB; D[demosaicing] --> DN[denoising] --> CM[color mapping] --> GM[gamut mapping] --> TM[tone mapping] --> C[compression]; end; Imaging_Pipeline -- RGB --> subgraph CPU_or_GPU [CPU or GPU]; TA[Tracking Algorithms]; end;
```