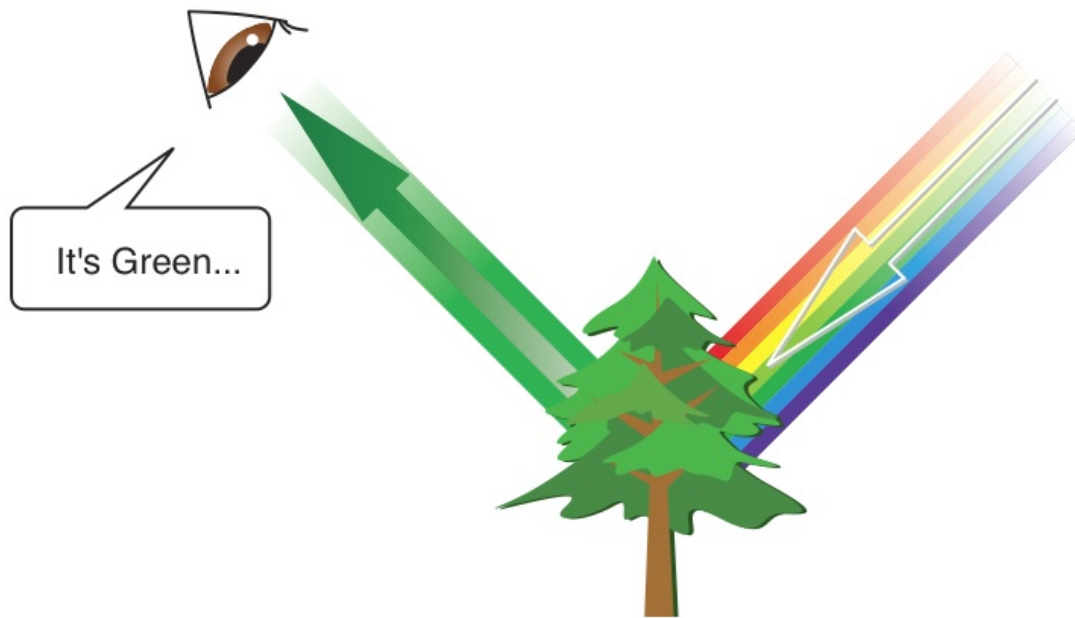


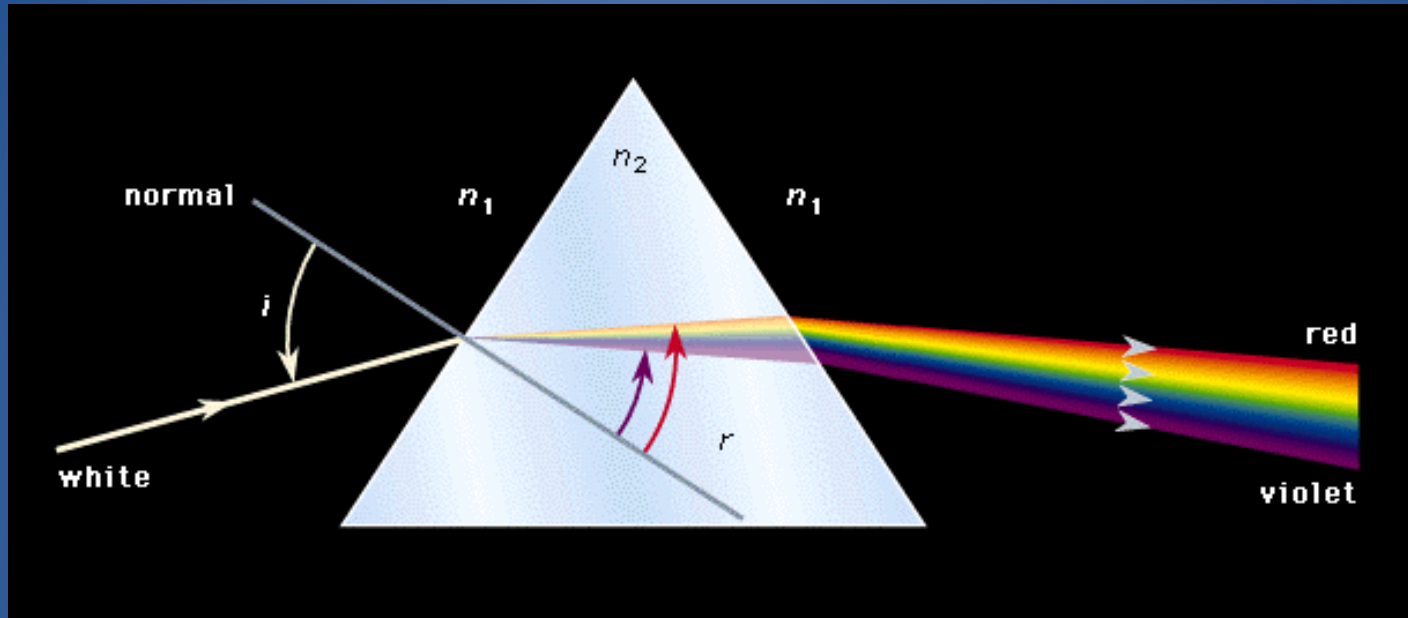
Formazione dell'immagine cine-videografica

Relazione di Pino Brambilla



Only a green spectrum is reflected on the leaves.
Other colors are absorbed.

Alla base di ogni processo visivo c'è la
luce.



Scomposizione **spettrale** della luce.

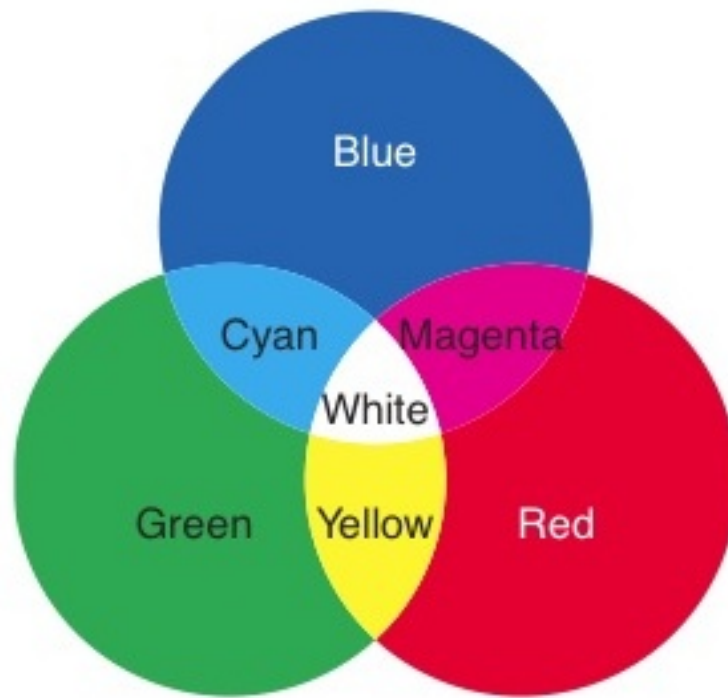
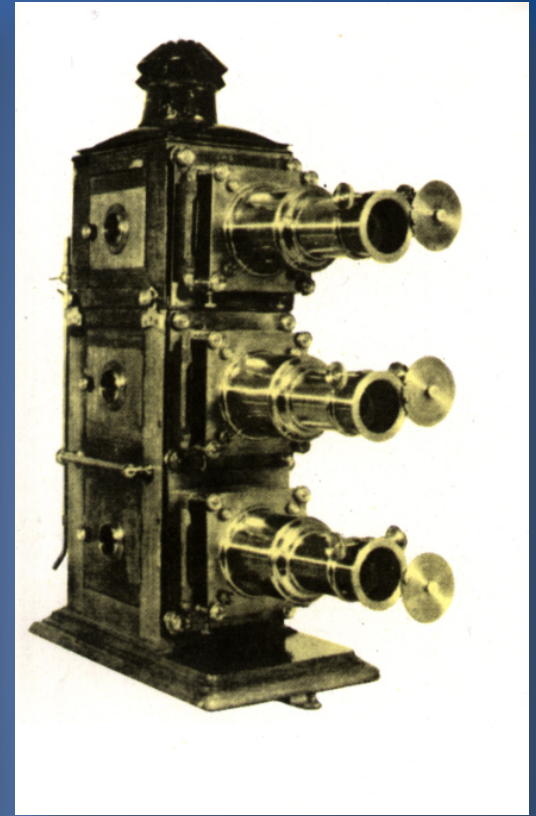
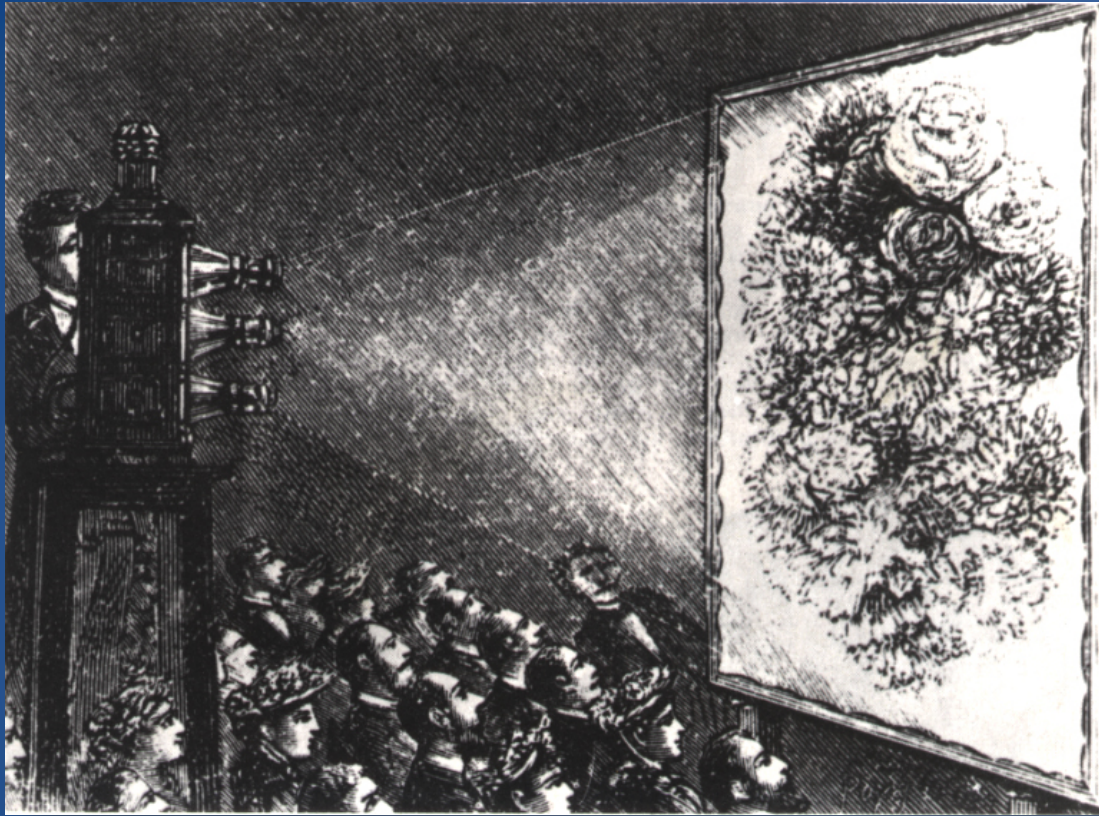
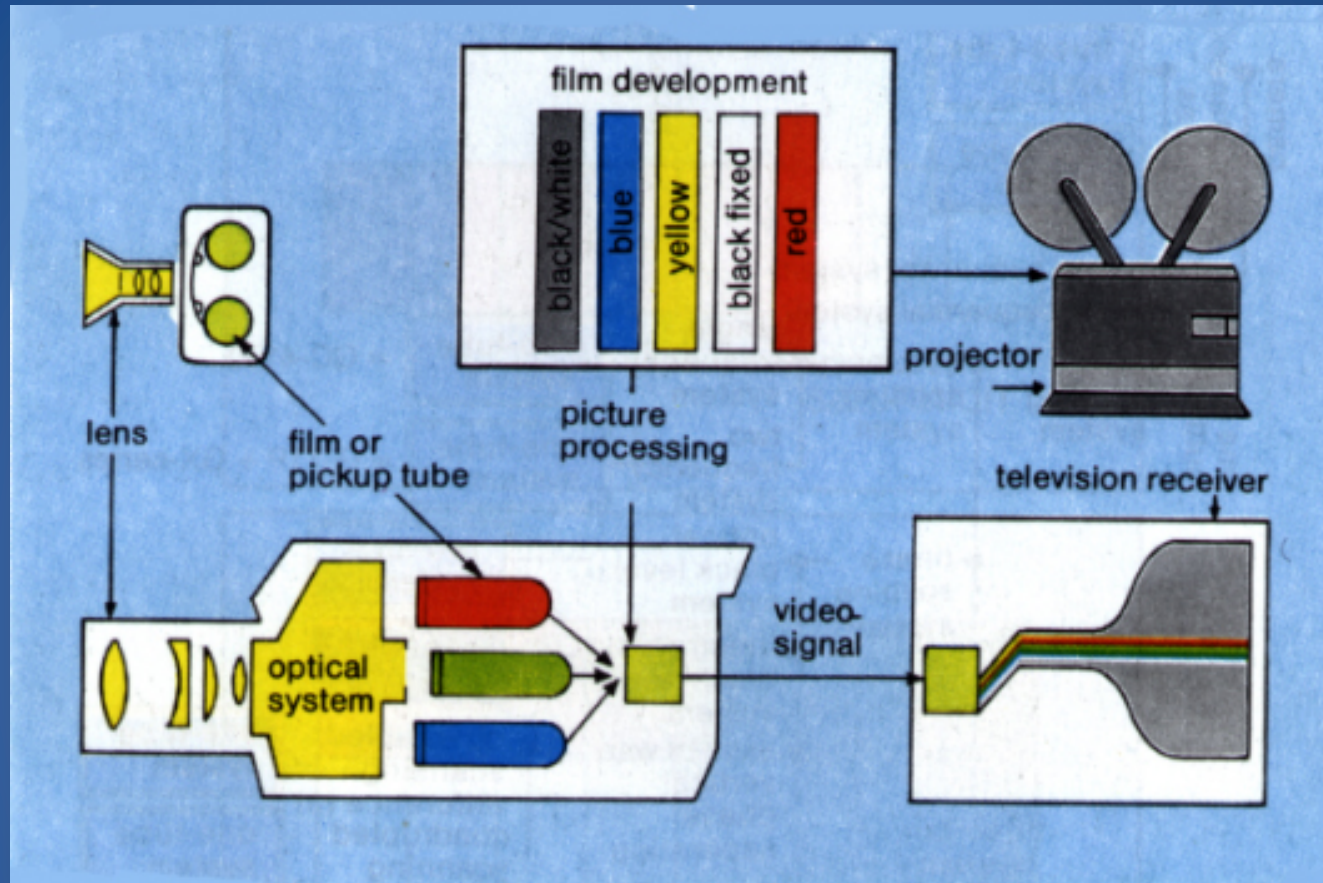


Figure A

I 3 colori **primari** additivi.



L' esperimento di **James Clerk Maxwell** nel 1859 sulla combinazione di tre immagini RGB.



Processi analogici di formazione
dell'immagine:
per via chimica e per via elettronica.

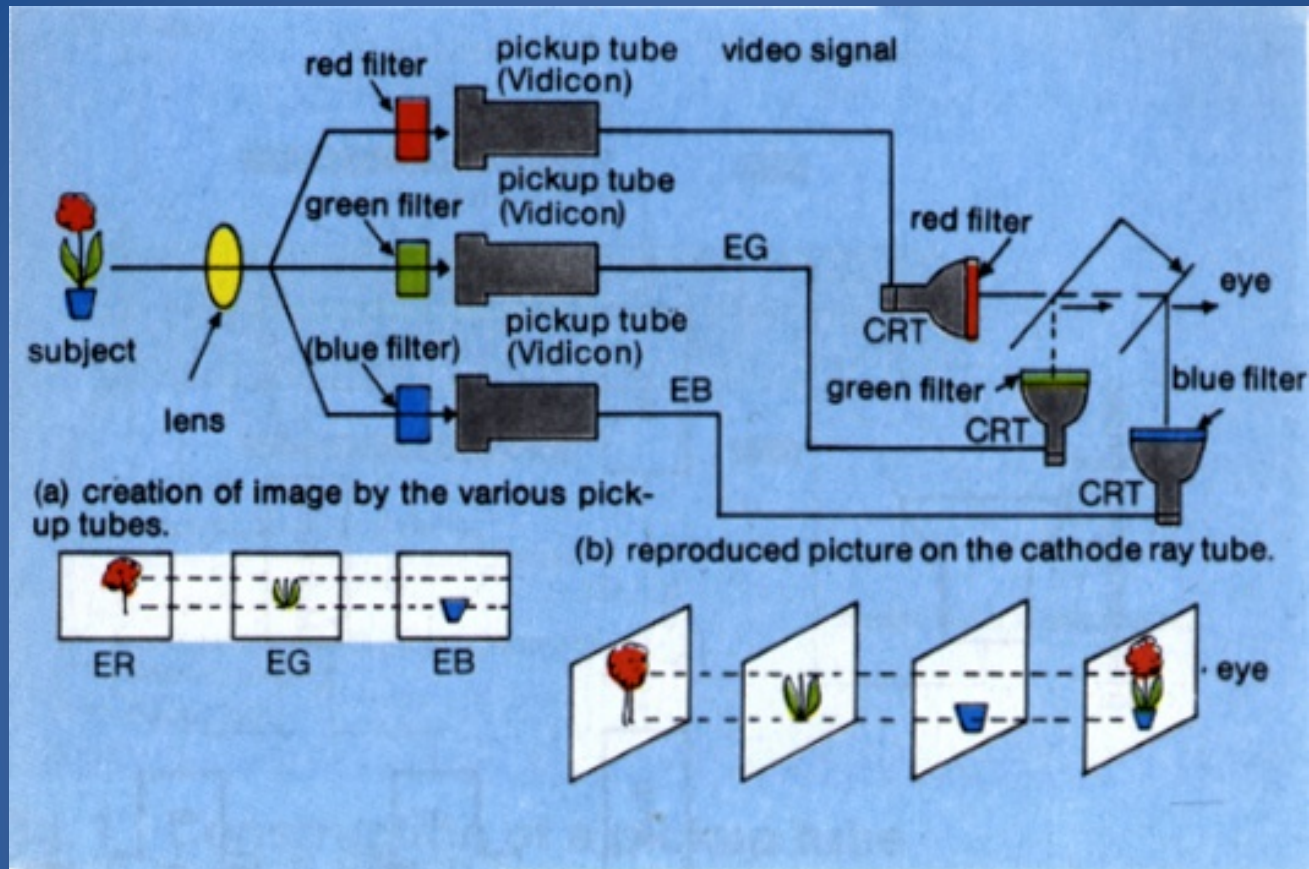


La ripresa mediante pellicola
(film)

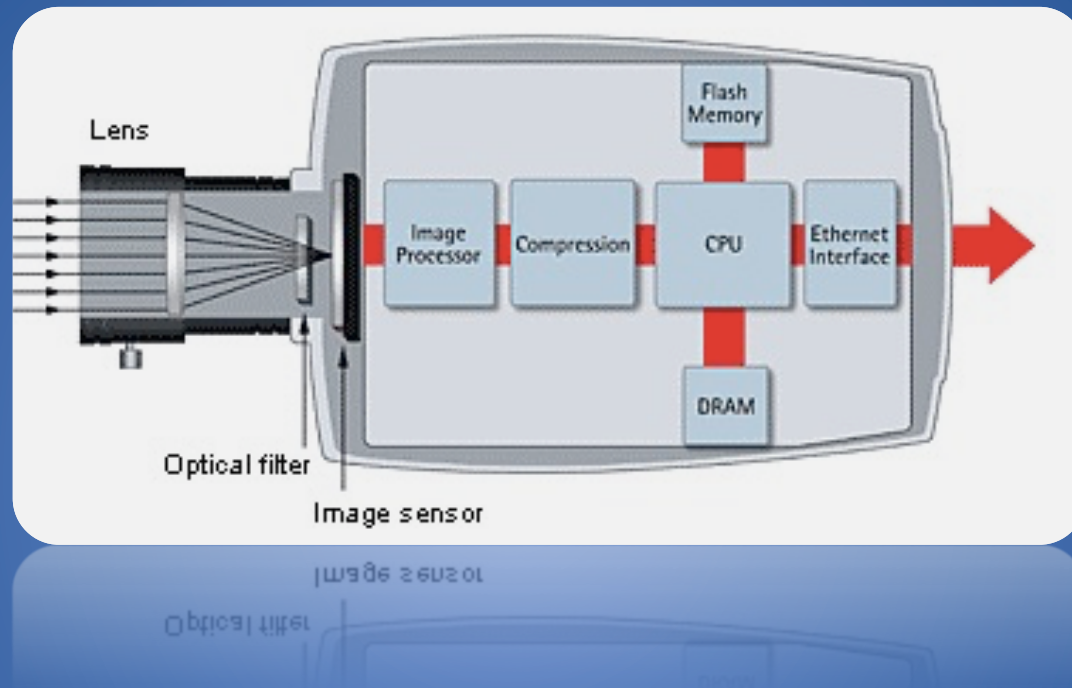




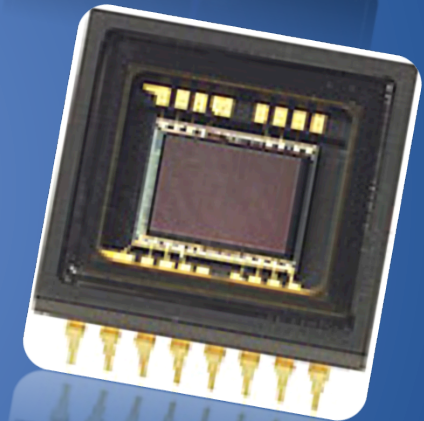
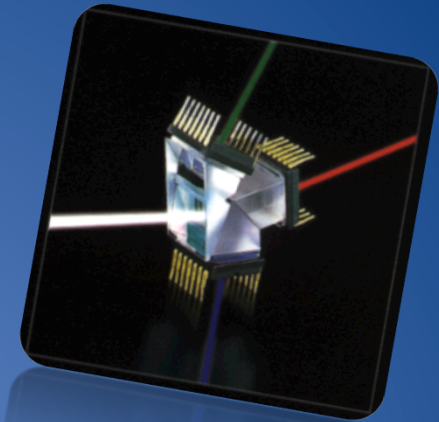
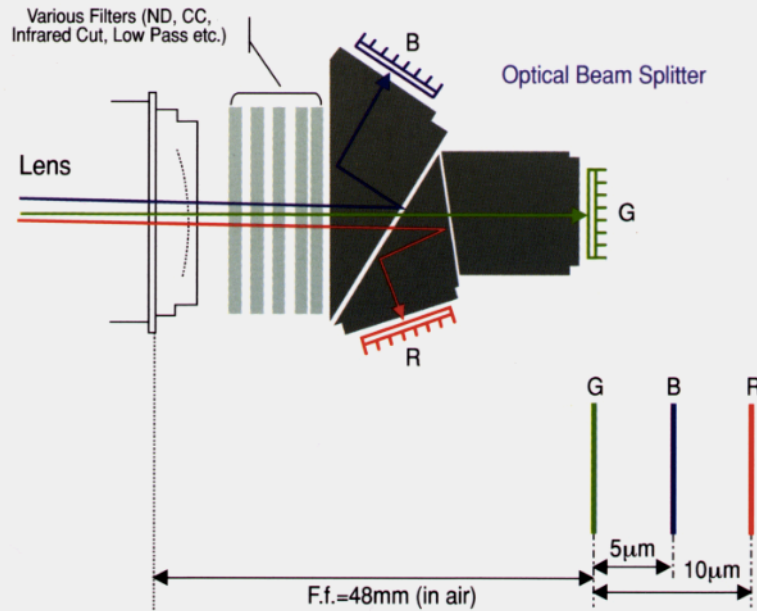
La ripresa mediante sensori elettronici (video)



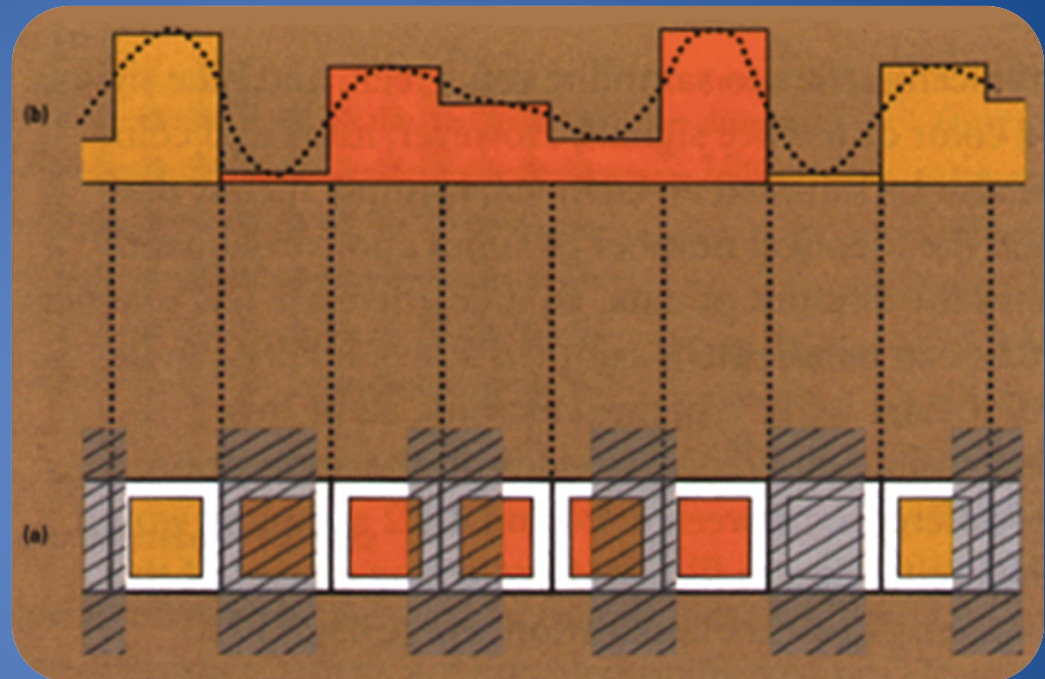
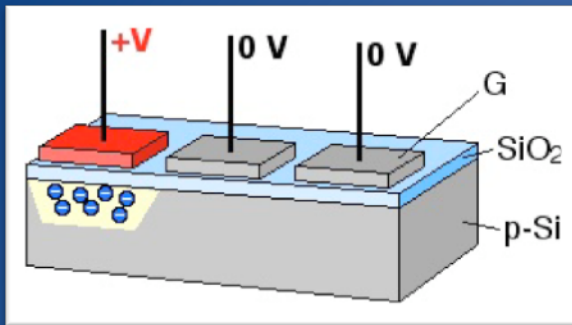
Formazione dell' **immagine elettronica**.



Processamento del segnale video.



Formazione dell' immagine **elettronica**



Formazione dell' immagine elettronica
digitale.

Figure A: Mechanism of human eyeball

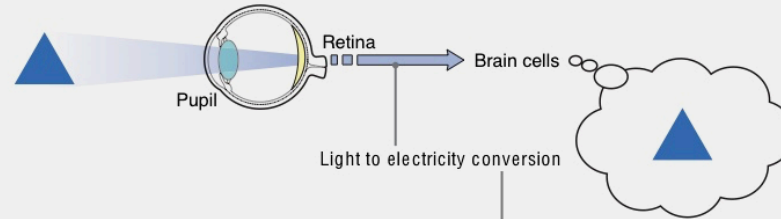


Figure B: Mechanism of CCD camera

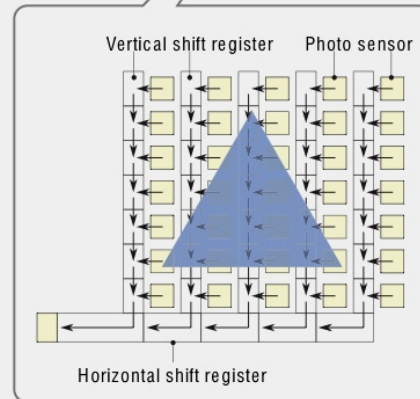
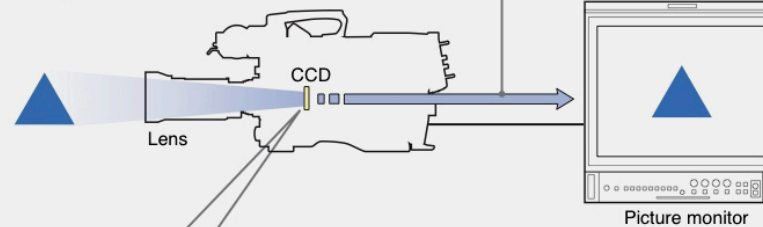
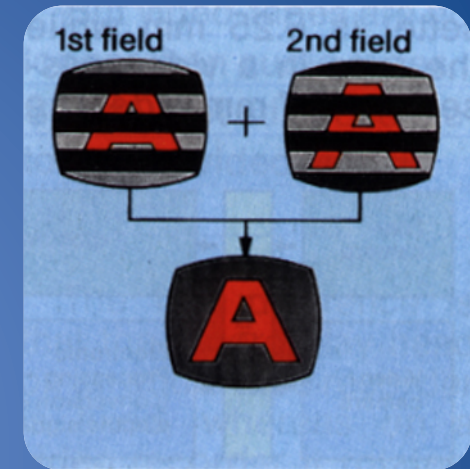
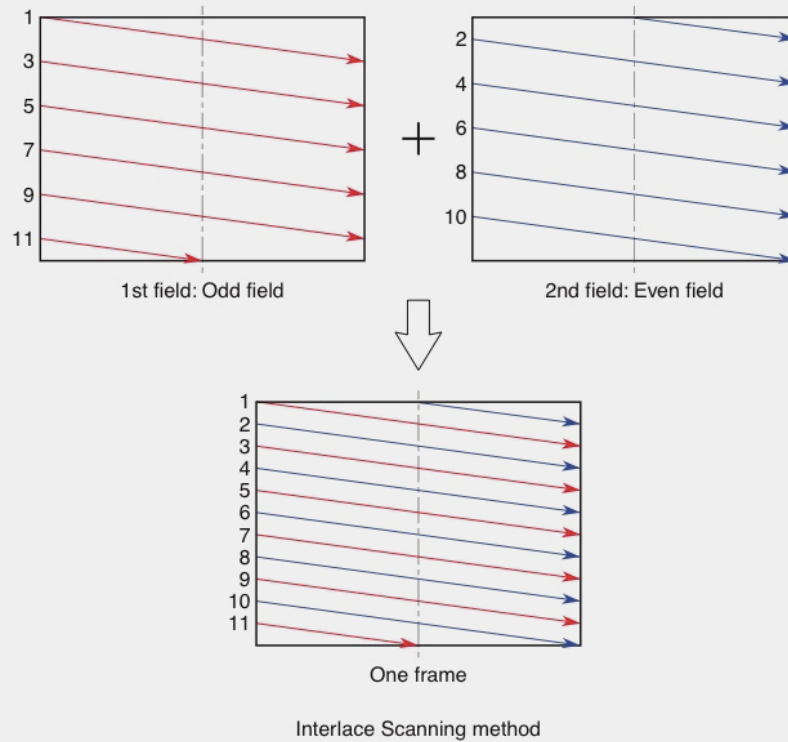
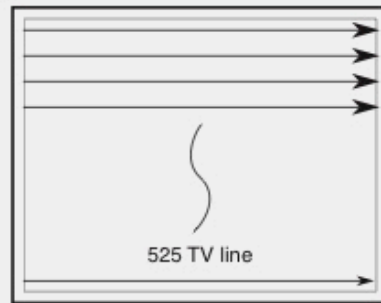


Figure C: CCD Readout mechanism

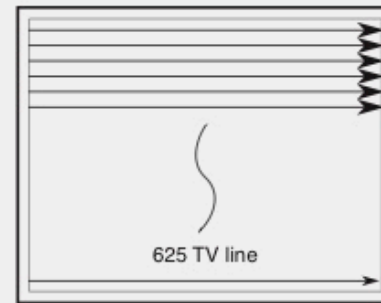
Immagine elettronica videotrasmissione
(Tv).



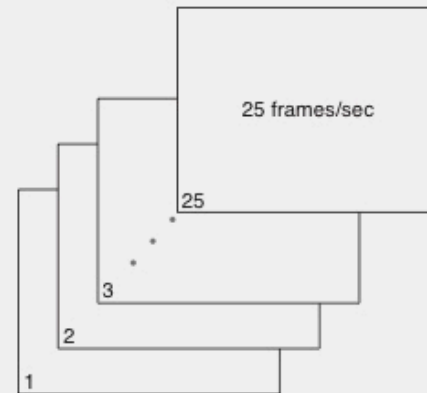
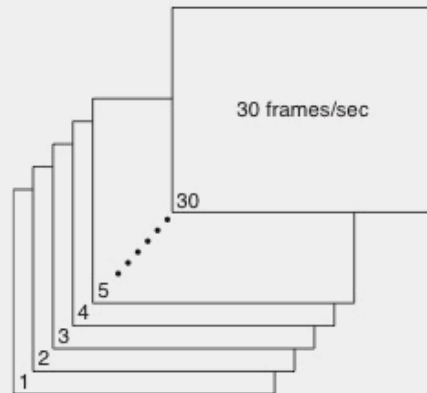
L' immagine video
interlacciata.



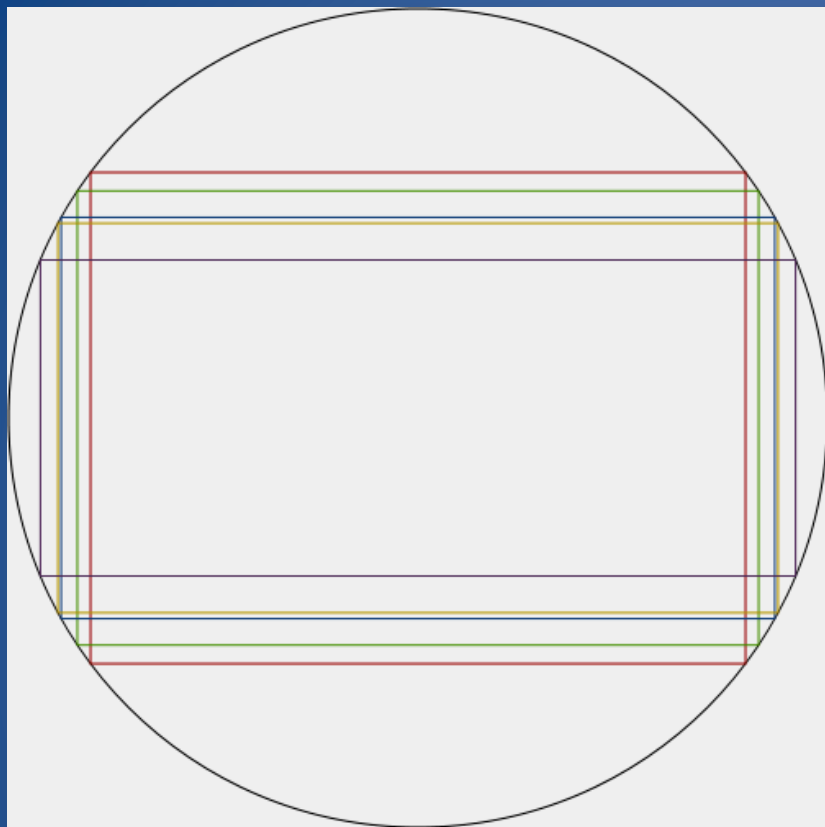
NTSC



PAL



Sistemi SD **NTSC** (USA) e **PAL** (Europa)



4:3



16:9

I formati delle immagini televisive **SD**.