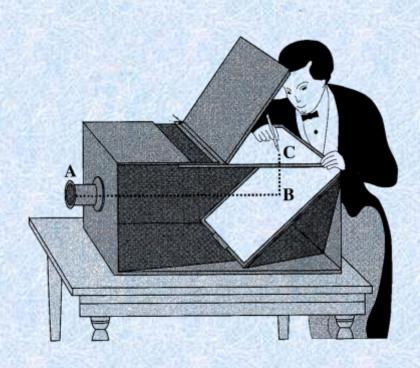
# Sensoriamento Remoto Aplicado à Geografia

Sensor Fotográfico

Prof. Dr. Ailton Luchiari
Prof. Dr. Reinaldo Paul Pérez Machado

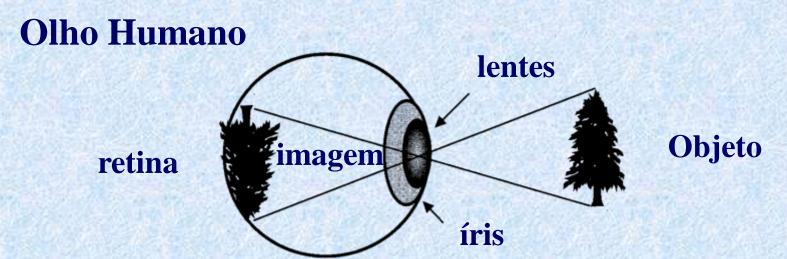
# Sensor Fotográfico

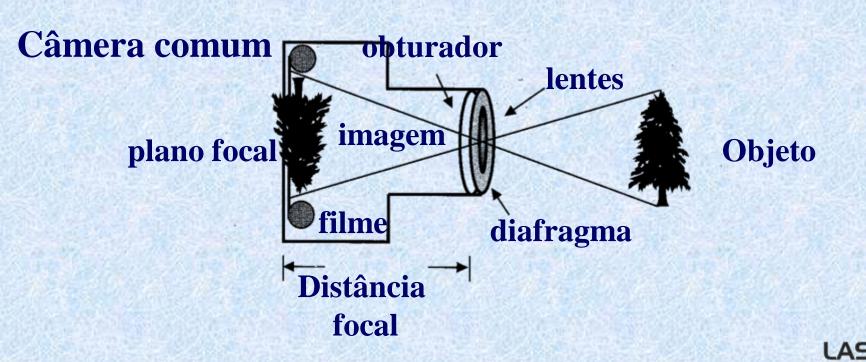


Câmara escura

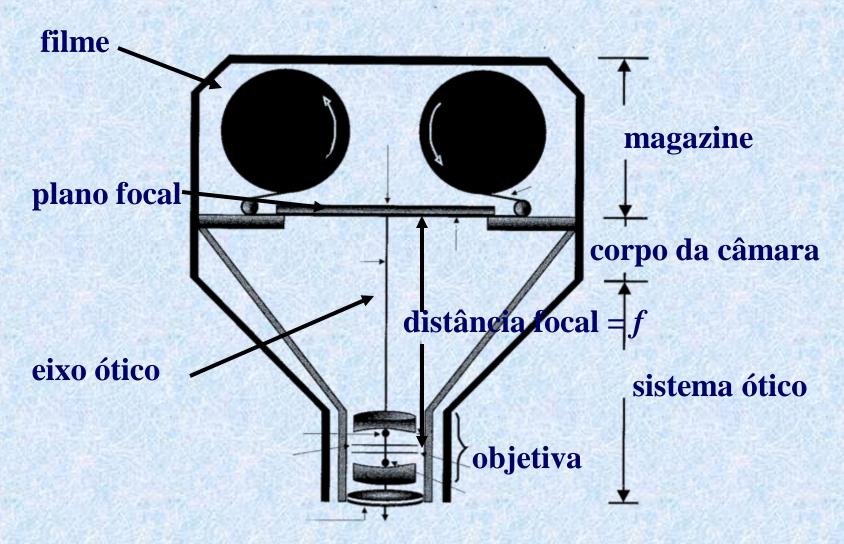


# Sensor Fotográfico



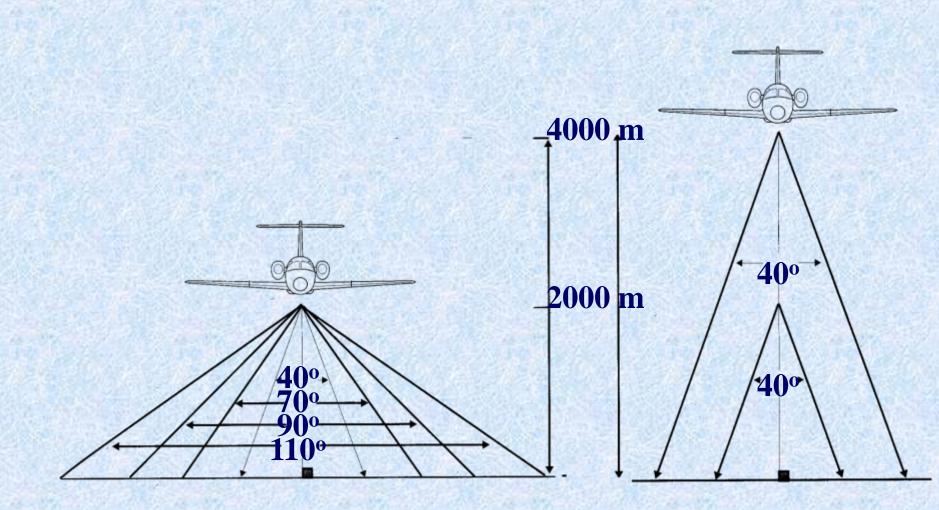


# Sensor Fotográfico



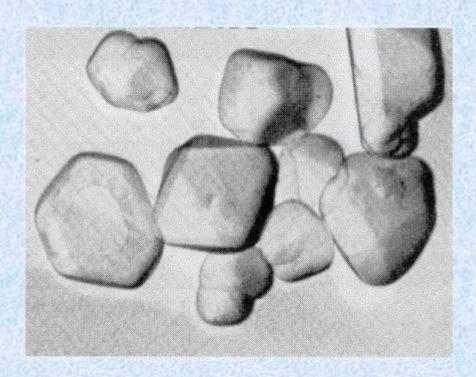


# Objetiva





## filmes

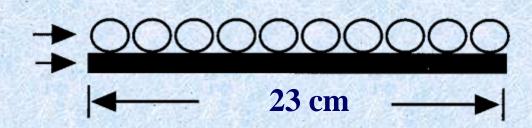


Cristais de haletos de prata

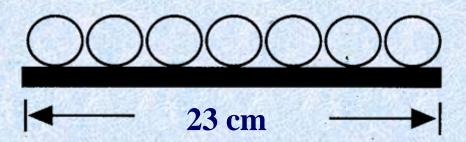


#### Filmes - velocidade

haletos de prata base de acetato



haletos de prata base de acetato

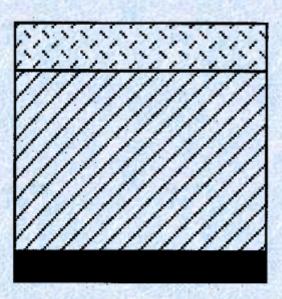




# Filmes – branco e preto

#### filme BP visível

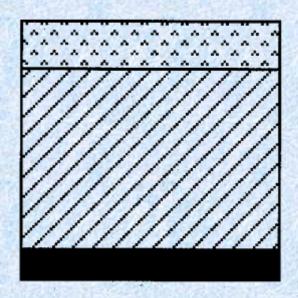
#### filme BP infravermelho



emulsão com haletos de prata

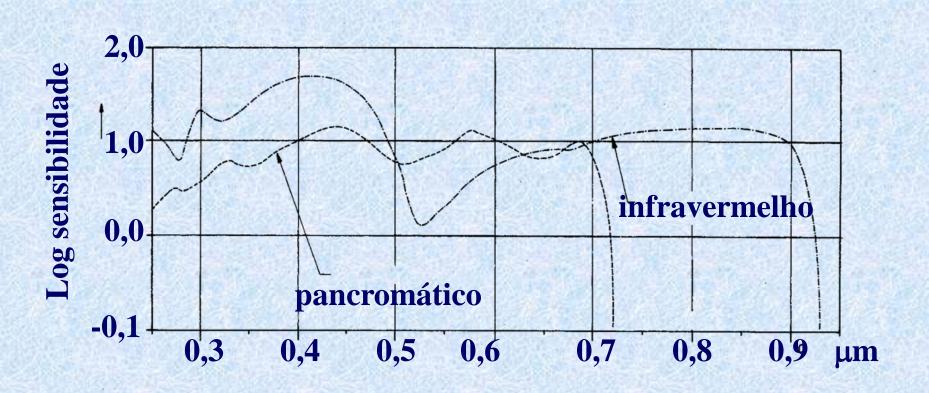
base de polyester

camada anti-halo



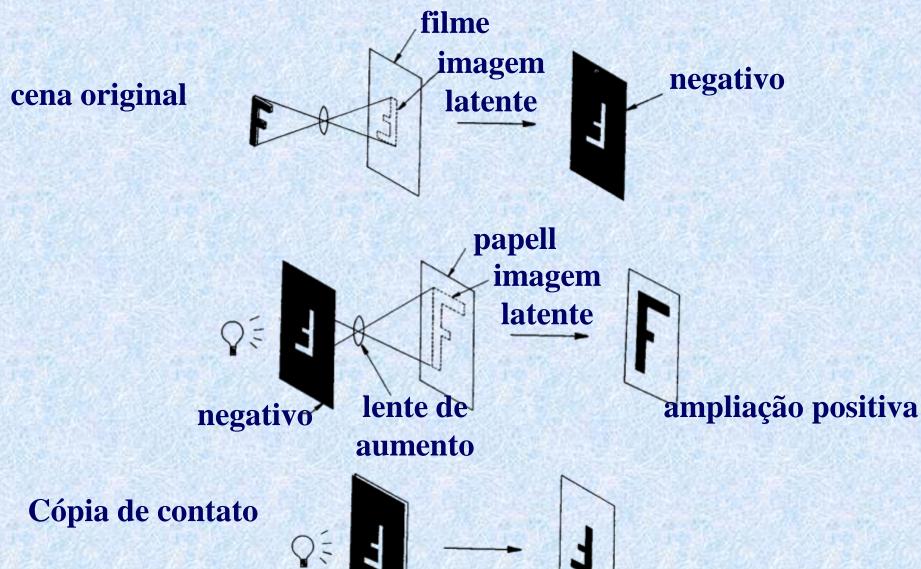


#### Filmes – BP sensibilidade



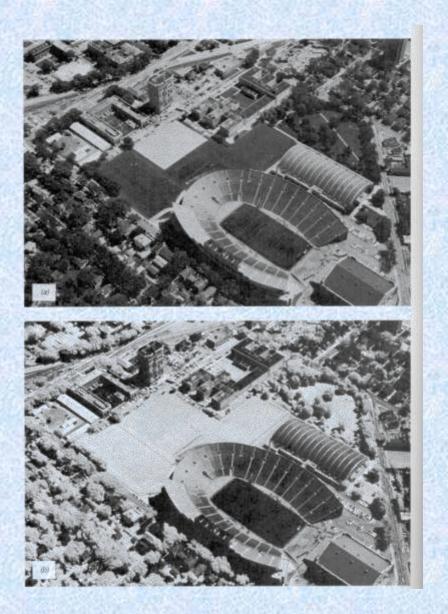


# Filmes – BP revelação



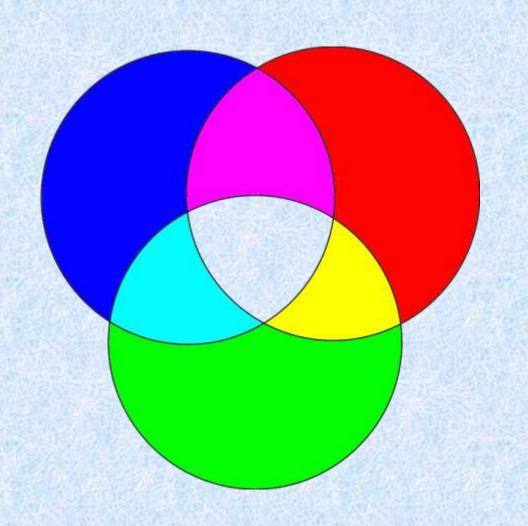


## Filmes – BP resultado



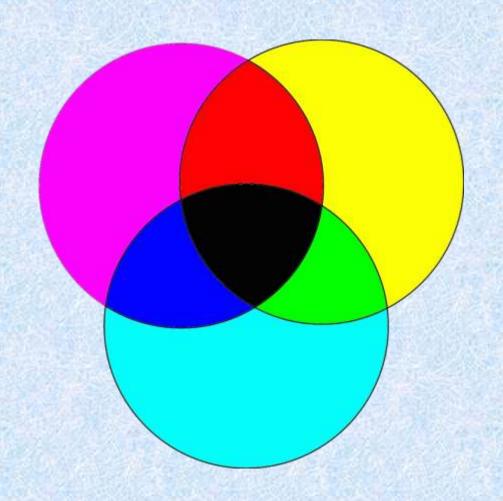


# Filmes coloridos – cores aditivas



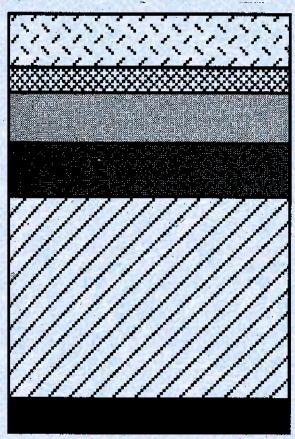


## Filmes coloridos – cores subtrativas





#### Filme colorido normal



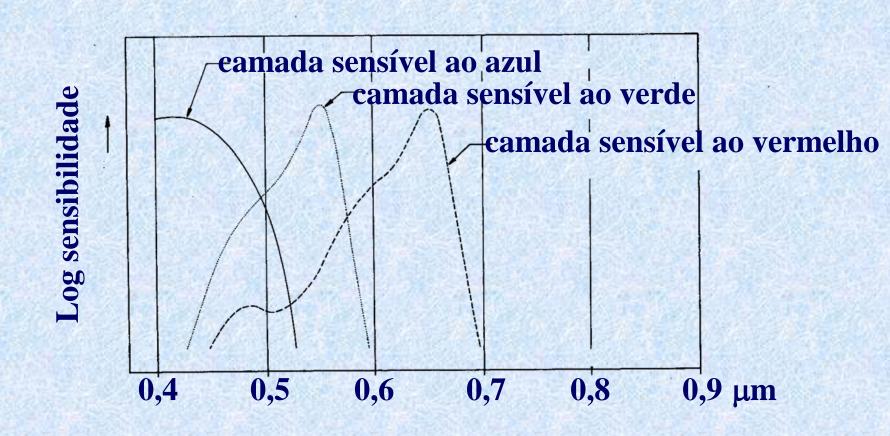
camada sensível ao azul
filtro amarelo
camada sensível ao verde
camada sensível ao vermelho

base de acetato - polyester

camada anti-halo

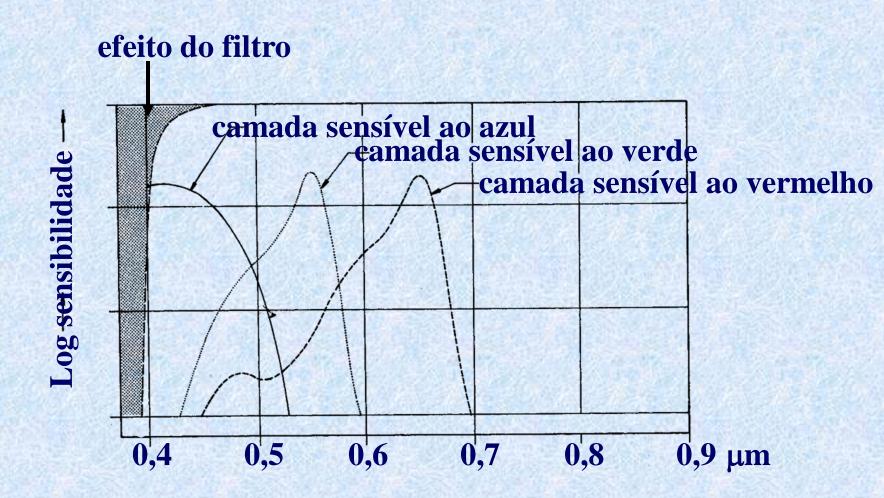


#### Filme colorido normal - sensibilidade



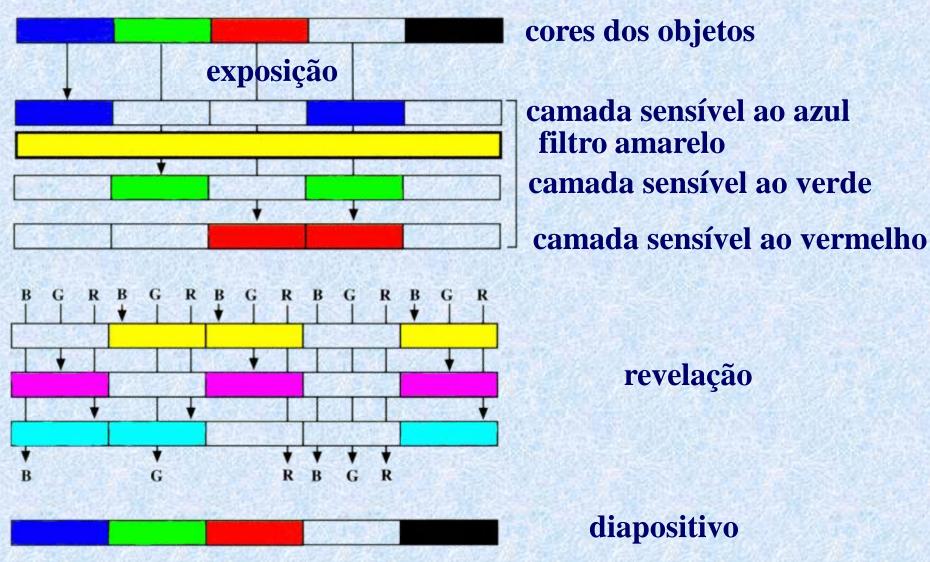


#### Filme colorido normal - filtro



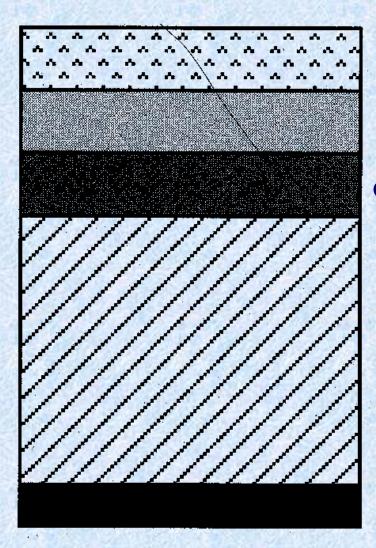


# Filme colorido normal - revelação





#### Filme colorido infravermelho



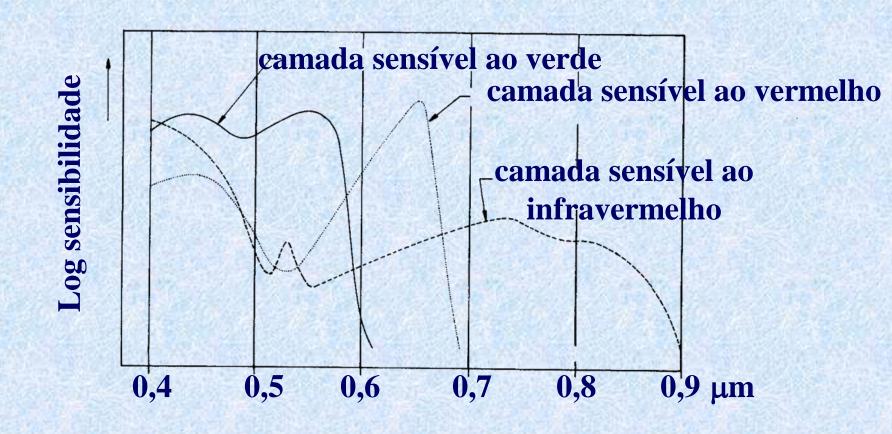
camada sensível ao infravermelho camada sensível ao verde camada sensível ao vermelho

base de acetato - polyester

camada anti-halo

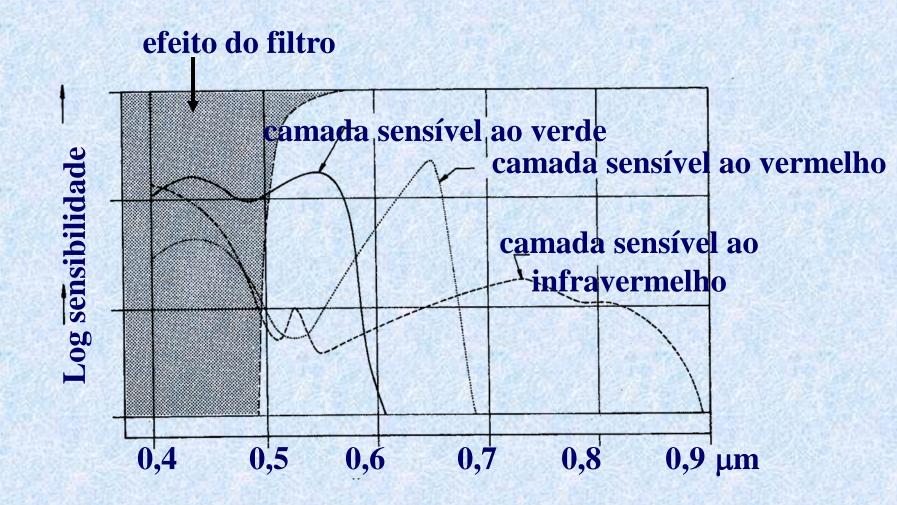


#### Filme colorido infravermelho - sensibilidade



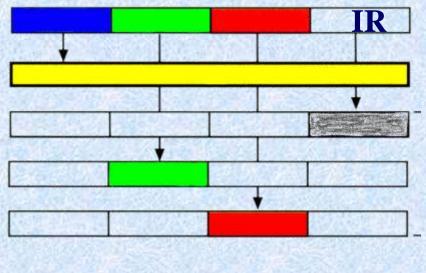


#### Filme colorido infravermelho - filtro

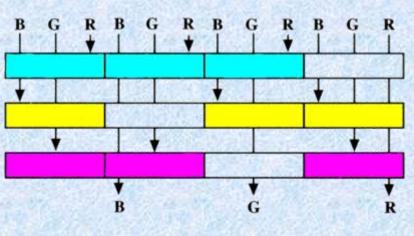




# Filme colorido infravermelho - revelação



reflectância dos objetos
filtro colocado na câmara
camada sensível ao infravermelho
camada sensível ao verde
camada sensível ao vermelho

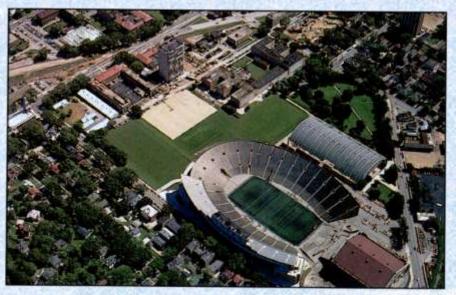


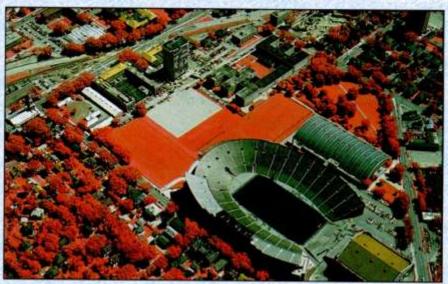
revelação

cores no filme



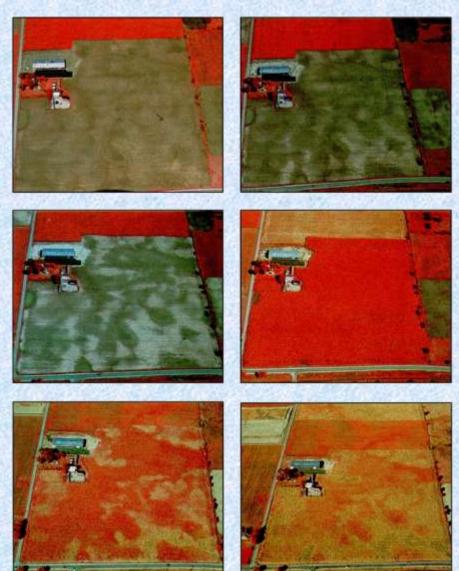
## Filmes coloridos- resultados





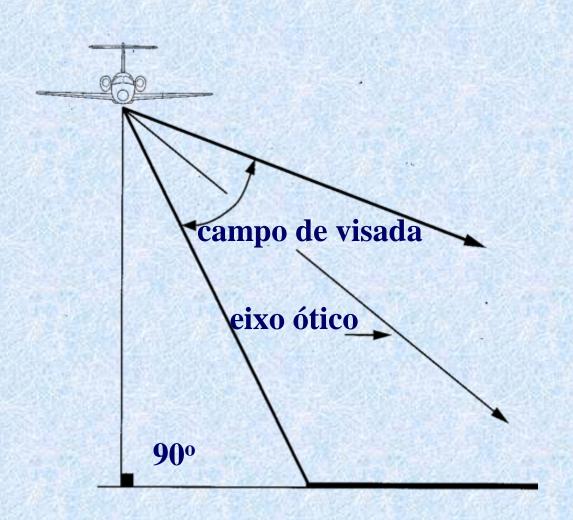


# Filmes coloridos- aplicação





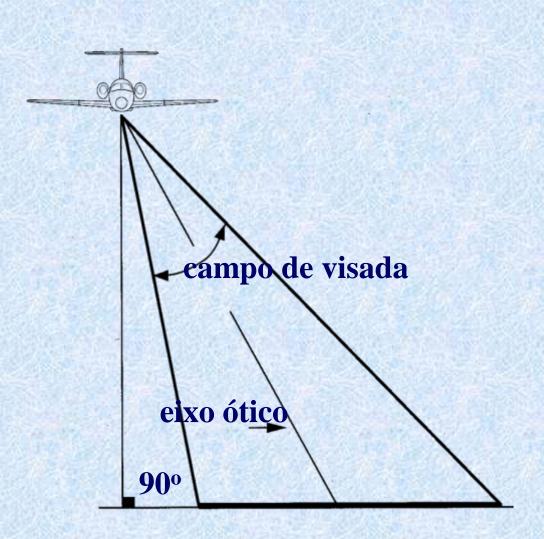
# Fotografias aéreas – oblíqua alta

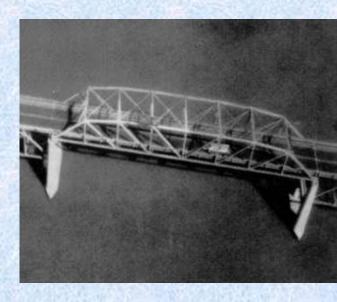






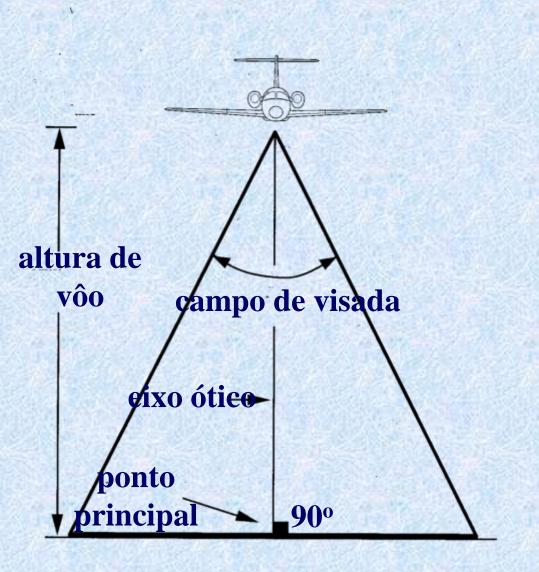
# Fotografias aéreas – oblíqua baixa







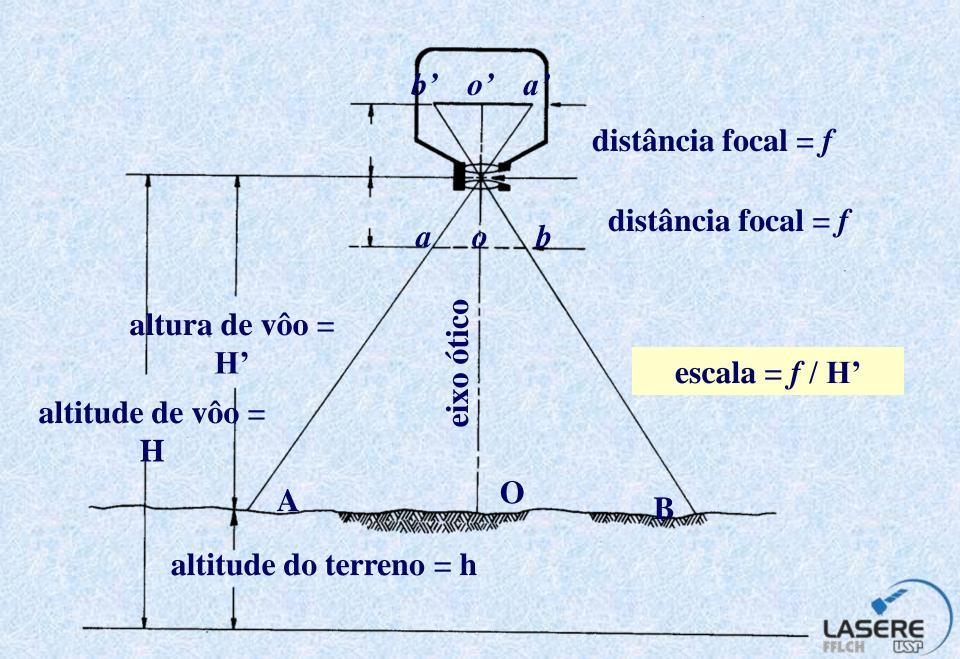
# Fotografias aéreas – vertical



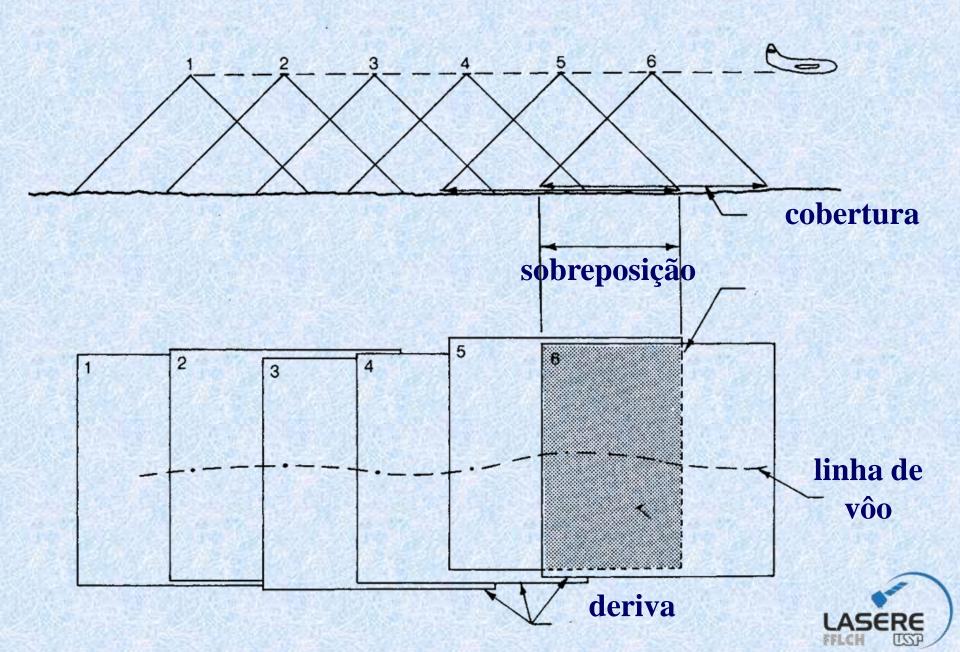




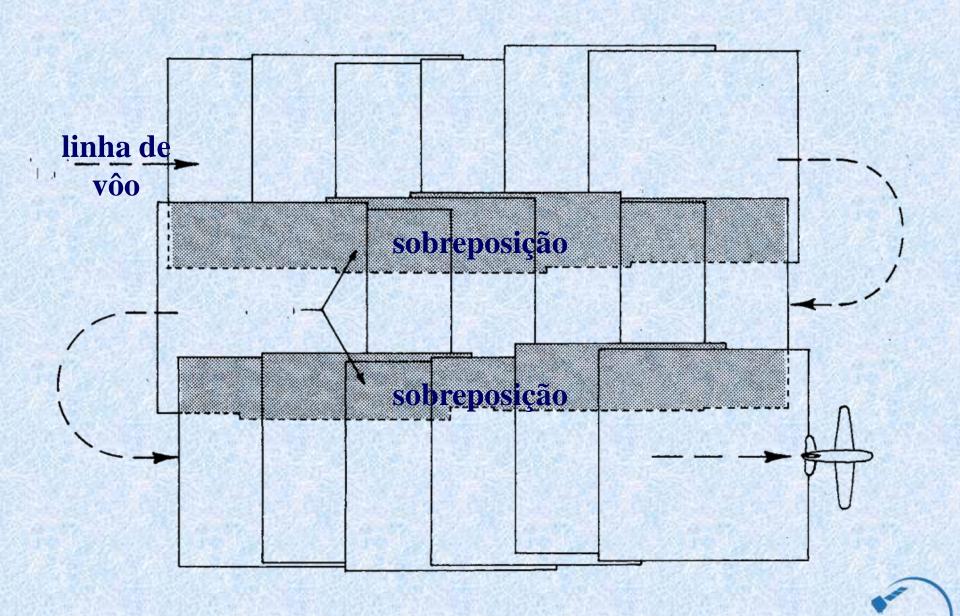
# Fotografias aéreas – elementos



# Fotografias aéreas – linha de vôo



# Fotografias aéreas – faixas de vôo



# Modelo estereoscópico

