

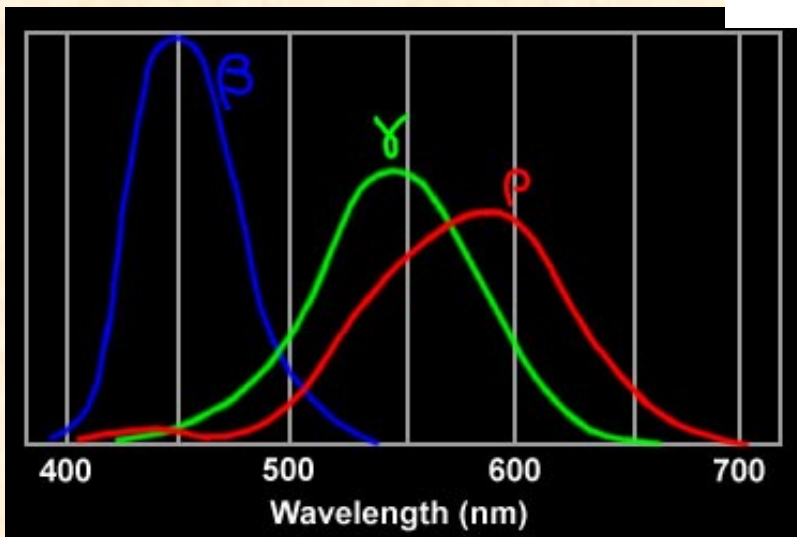
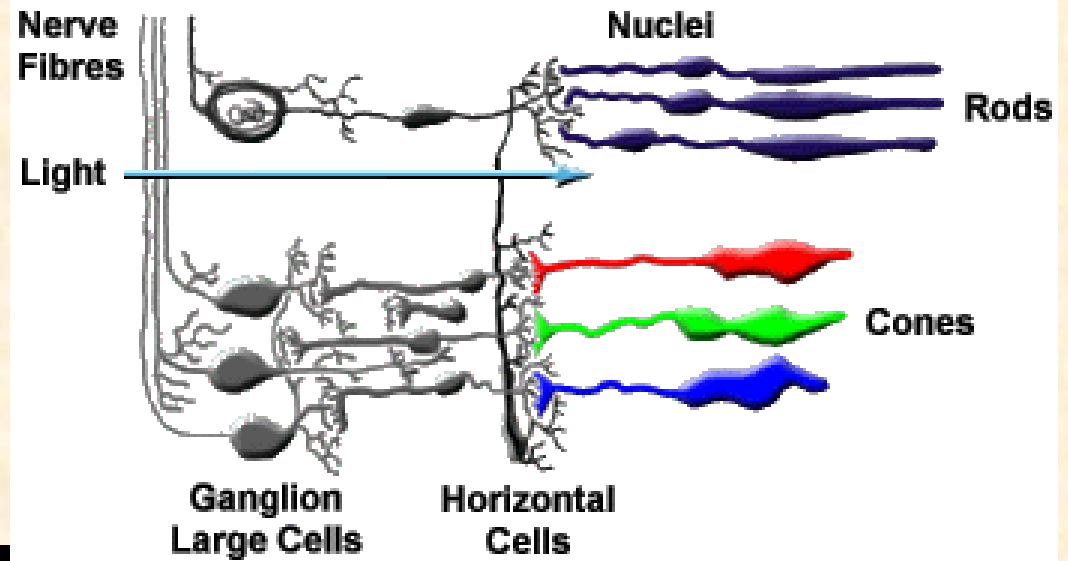
# Monitory

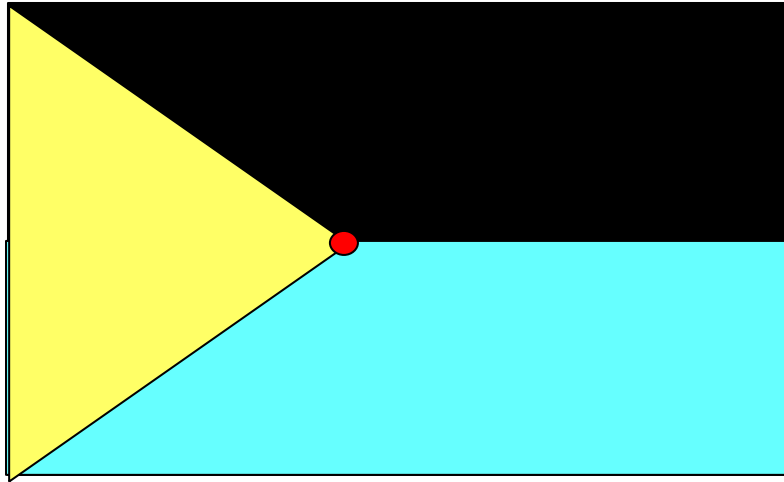
využívají dvou vlastností lidského oka

a) setrvačnost oka

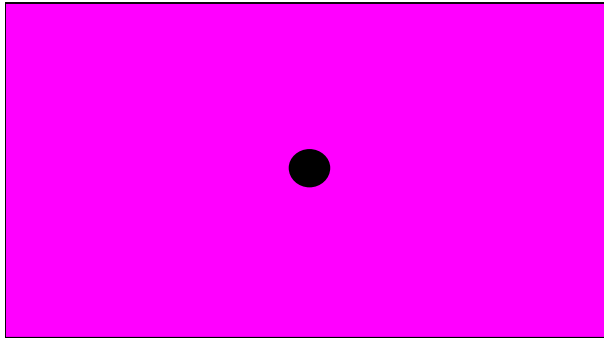
## b) mechanismus barevného vidění

### The Retina



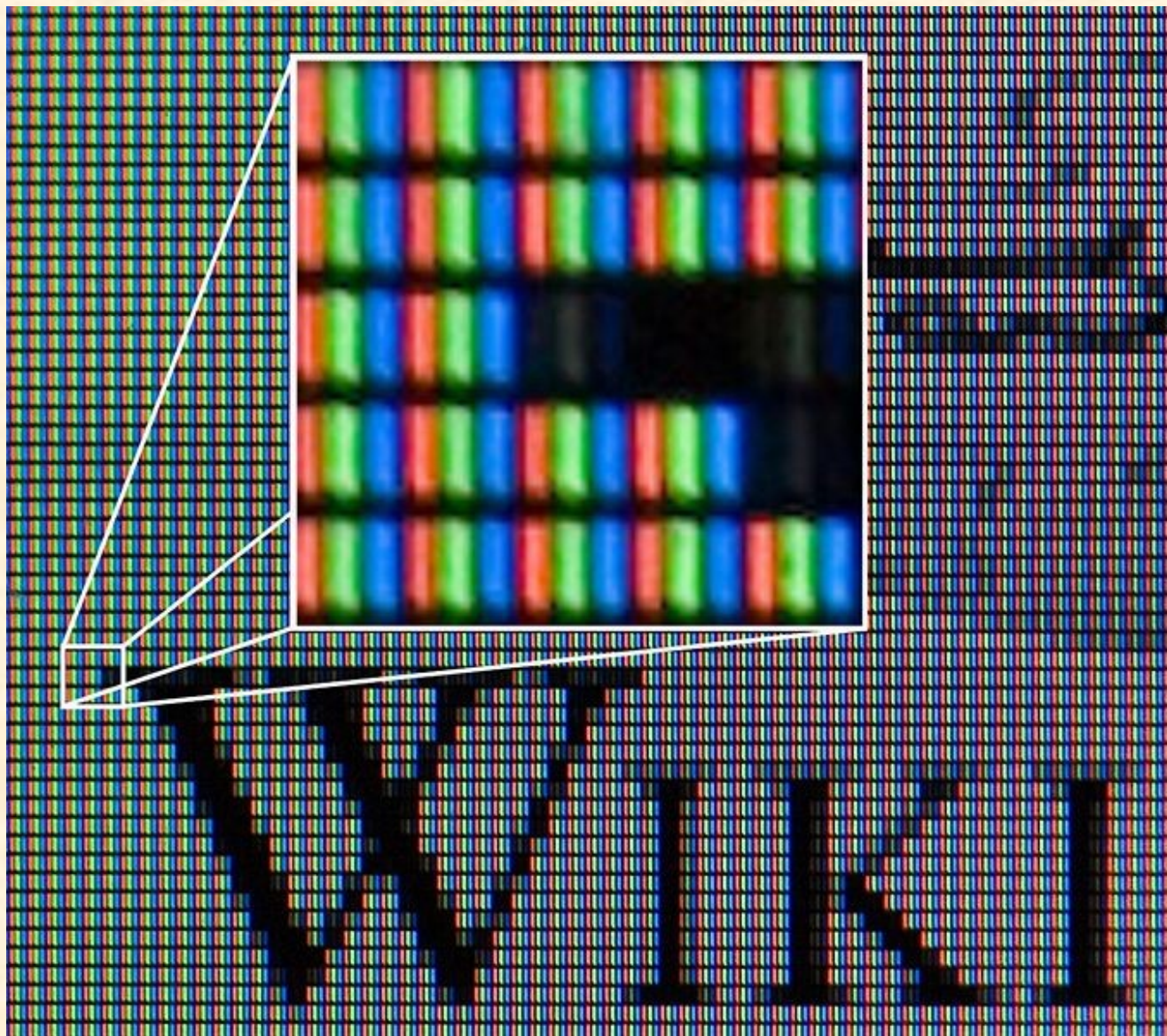






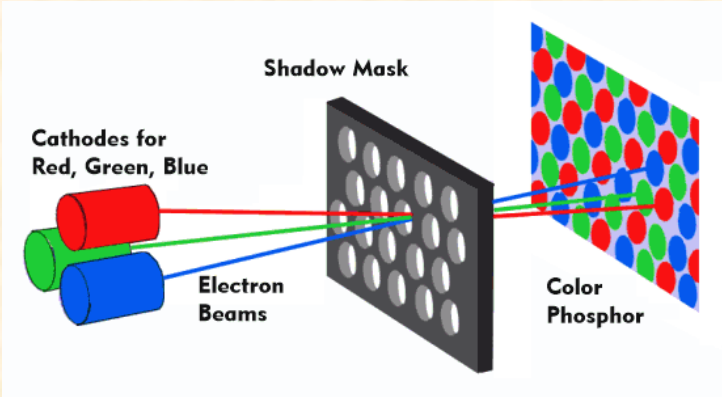
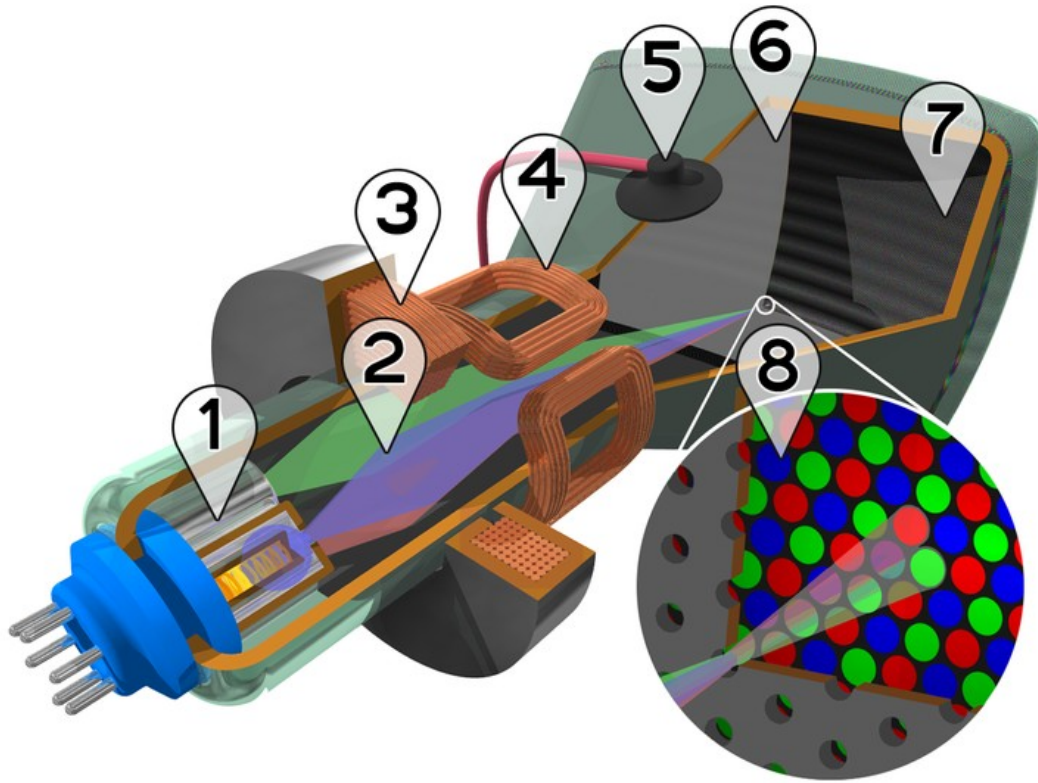


# barevný monitor





# CRT – cathode ray tube





# LCD – liquid crystal display

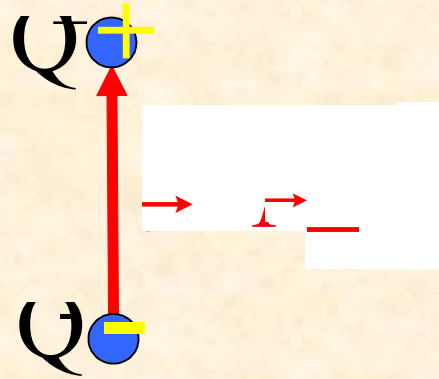
tekuté krystaly

dlouhé molekuly, které se  
mohou různě uspořádat

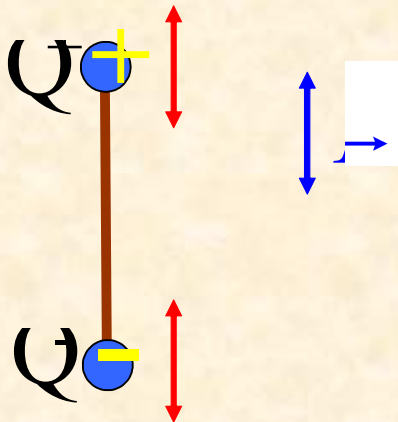


# Polarizace absorpcí – polarizační filtry

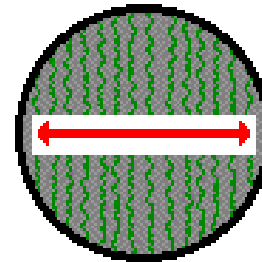
elektrický dipól



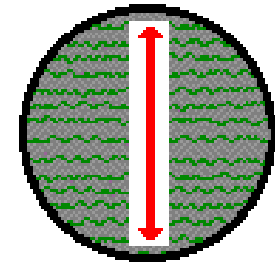
dipól v elektrickém poli - absorpce



## Relationship Between Long-Chain Molecule Orientation and the Orientation of the Polarization Axis

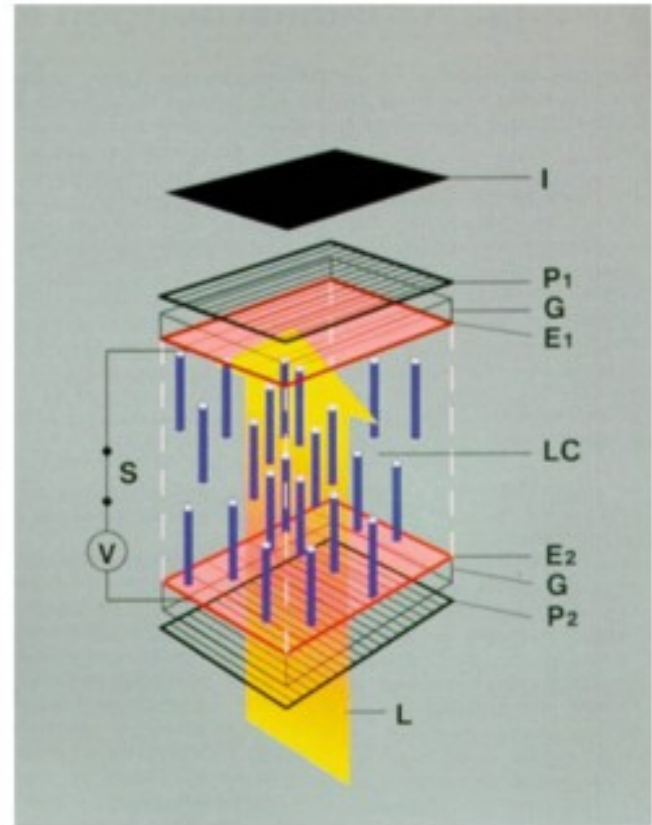
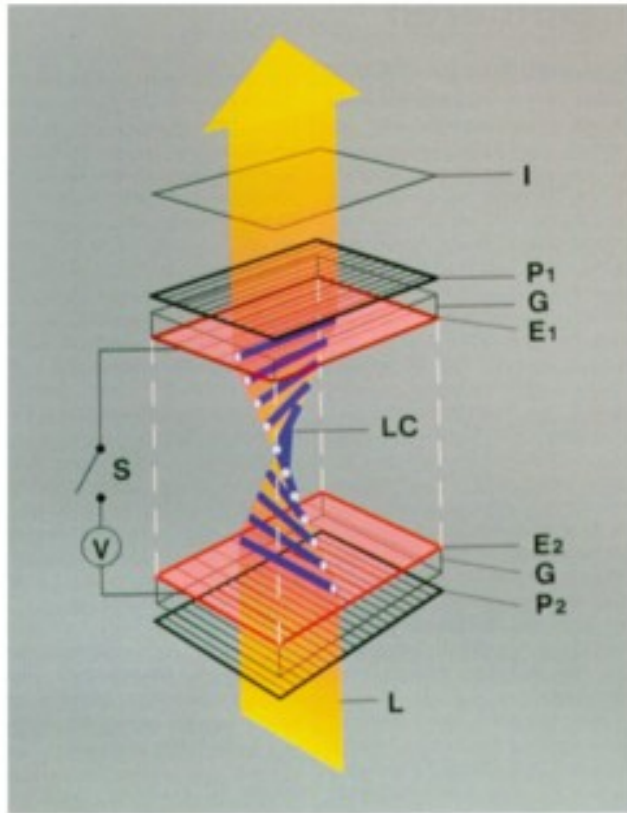


When molecules in the filter are aligned vertically, the polarization axis is horizontal.

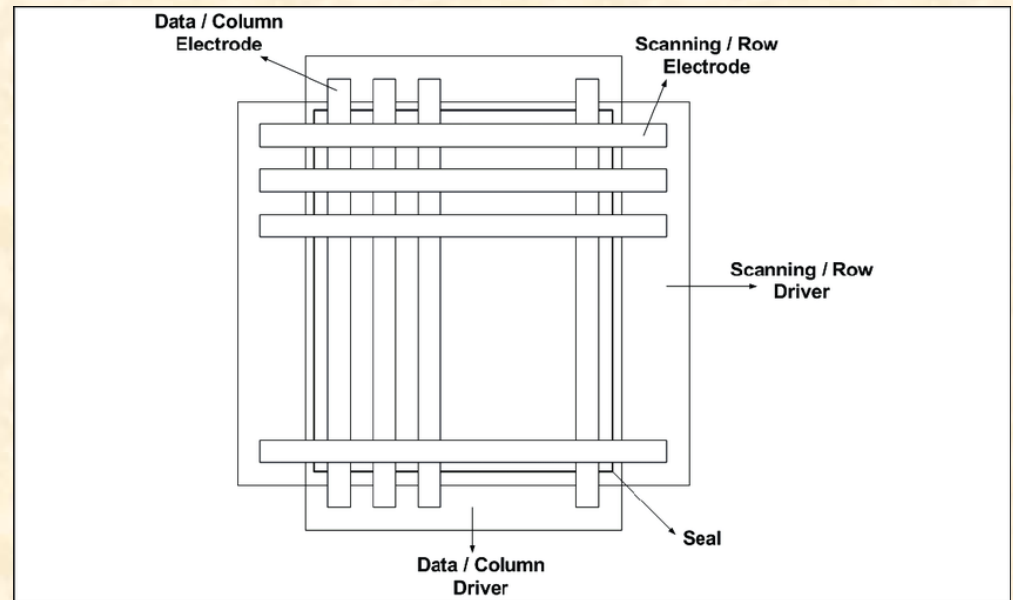


When molecules in the filter are aligned horizontally, the polarization axis is vertical.

# Struktura LCD buňky



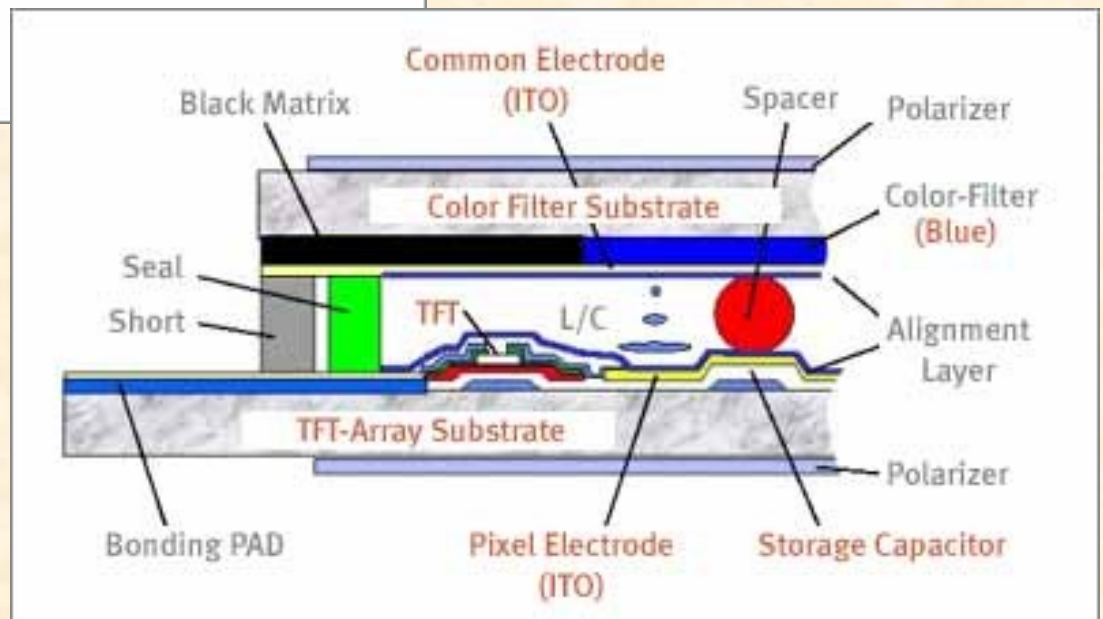
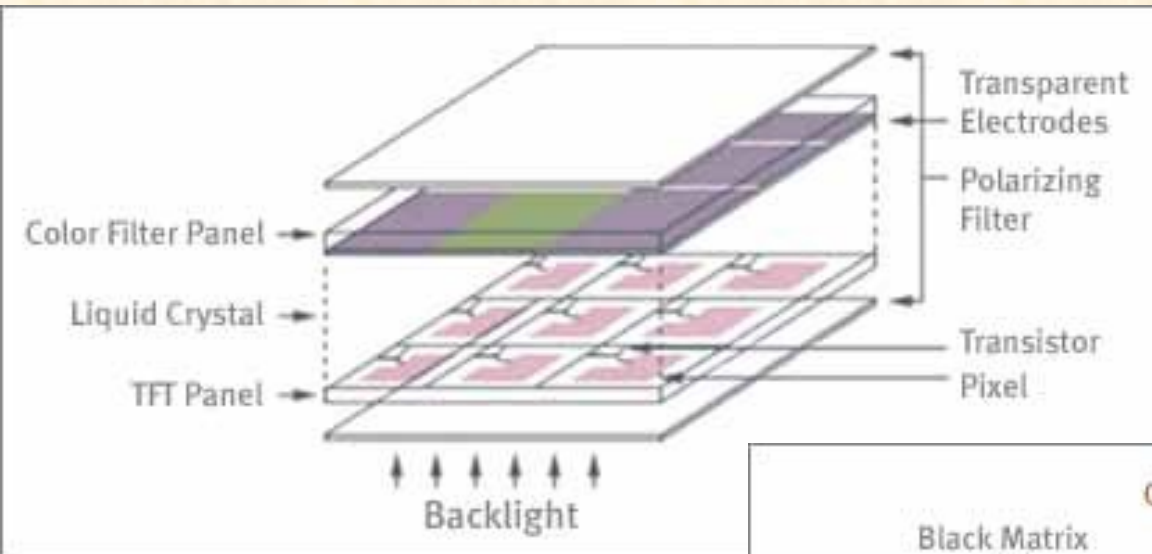
# pasivní display



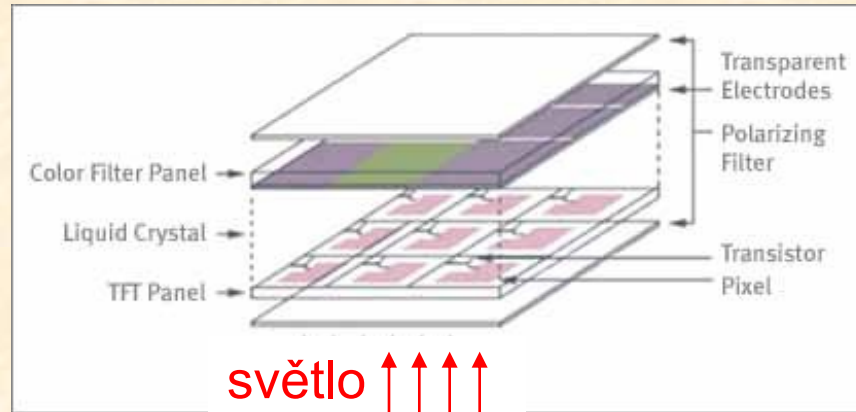
[adresování pixelu](#)

# aktivní display

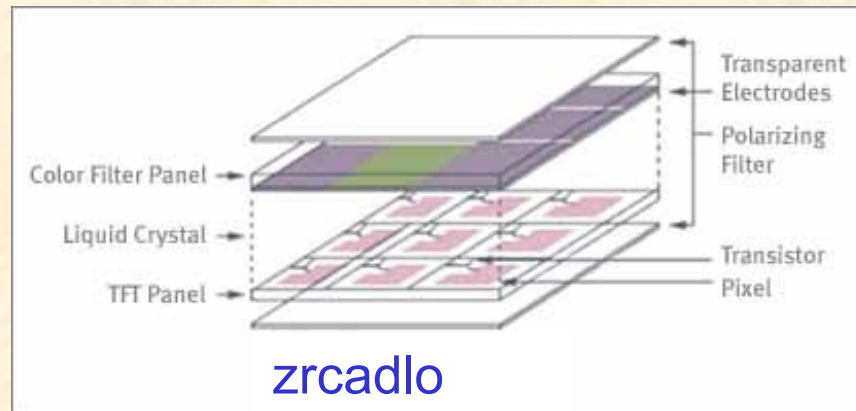
## TFT - Thin Film Transistor



na průchod



na odraz



na odraz i  
na průchod





# Plazmové monitory

plazma – ionizovaný plyn

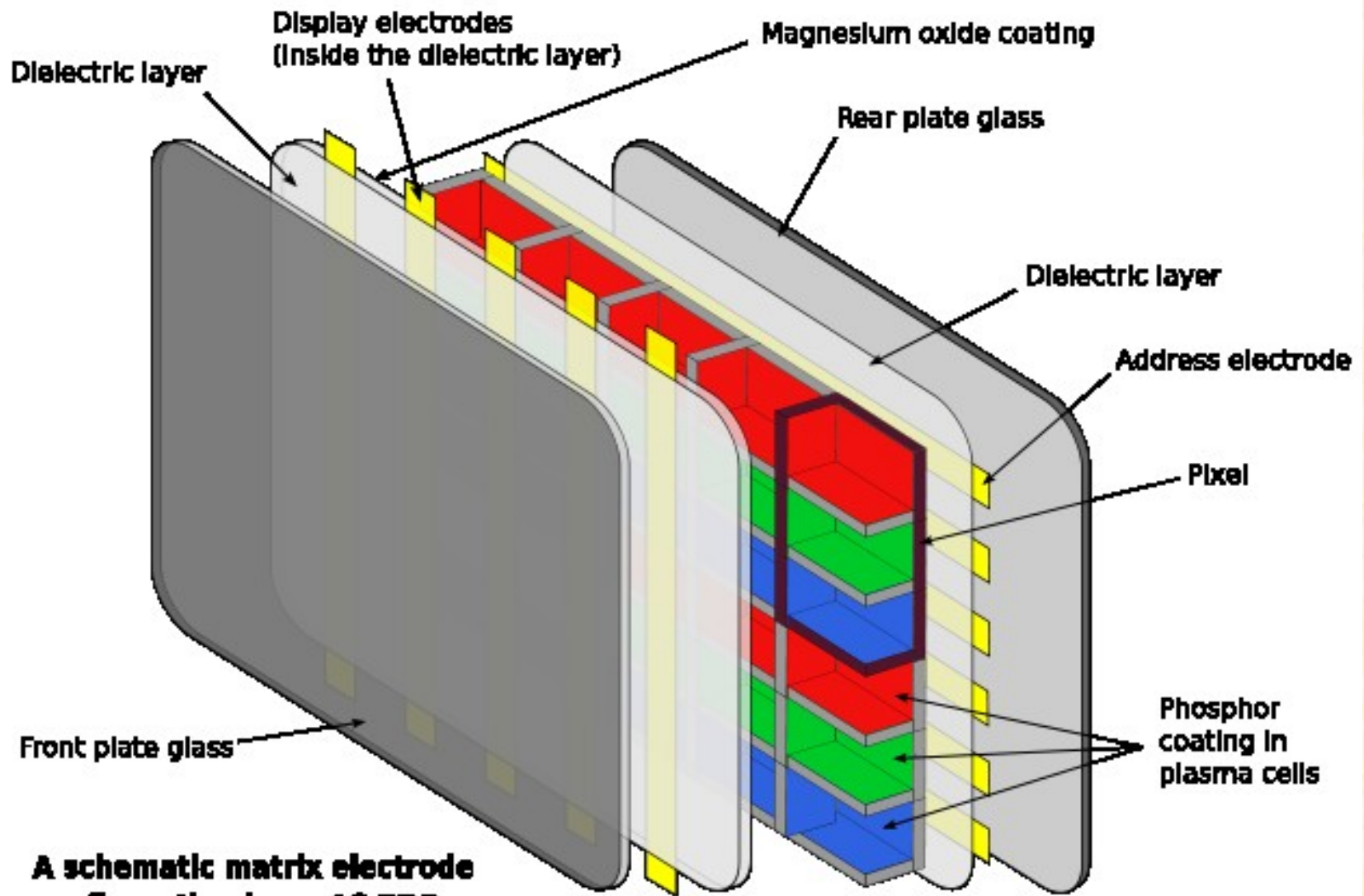
ionizace nárazem v elektrickém poli

elektrický výboj

emise elektromagnetického záření



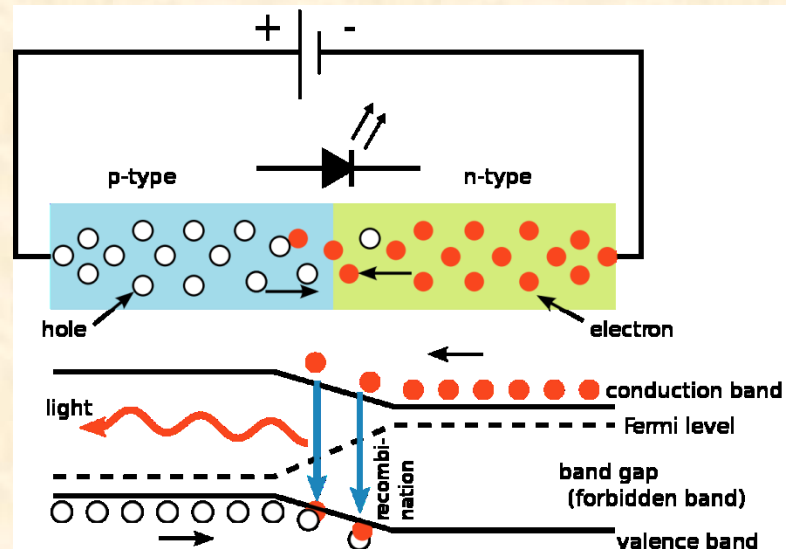
# elektrický výboj v inertním plynu (Ar, Ne, Xe)



**A schematic matrix electrode configuration in an AC PDP**

# LED monitory, displeje

## Struktura LED

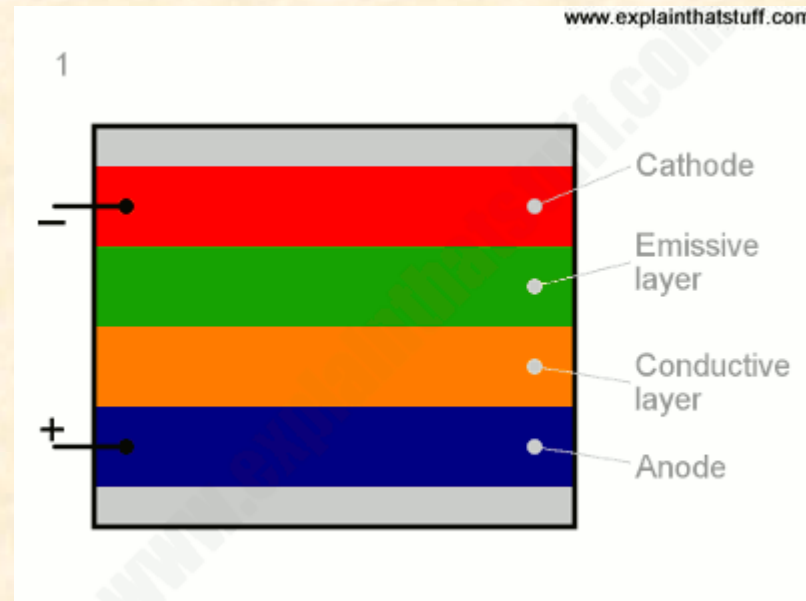


# Velkoplošné LED displeje



# OLED – Organic LED

Samsung TV (2013), mobil Galaxy (2014)



díry – mnohem pohyblivější než elektrony



# AMOLED Active Matrix OLED

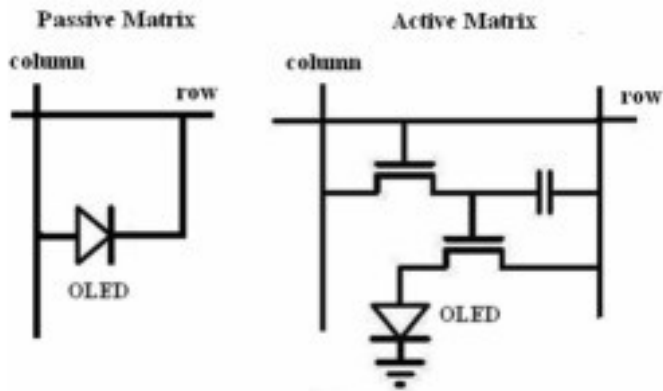
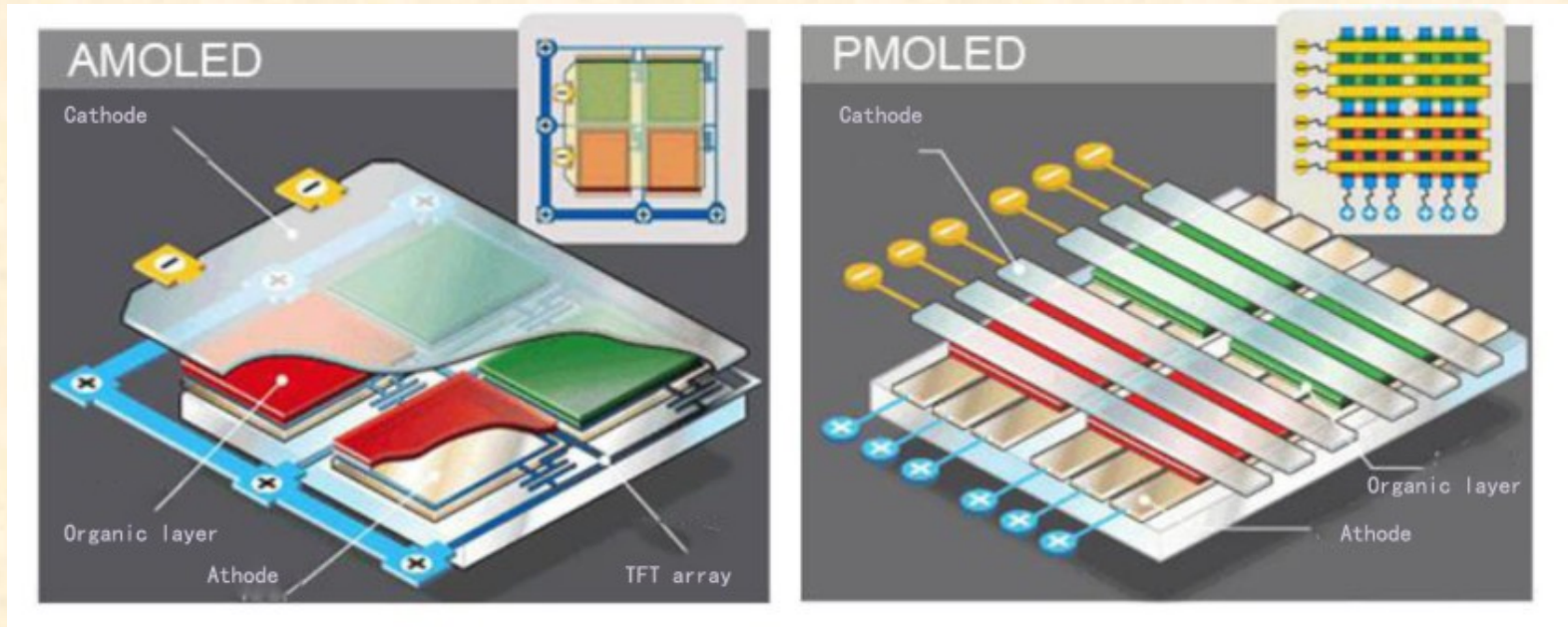


Fig. 1. Schematic of PMOLED (PM) and AMOLED (AM)



