

Interference Filter

Conventional (dye) filters absorb unwanted colors.

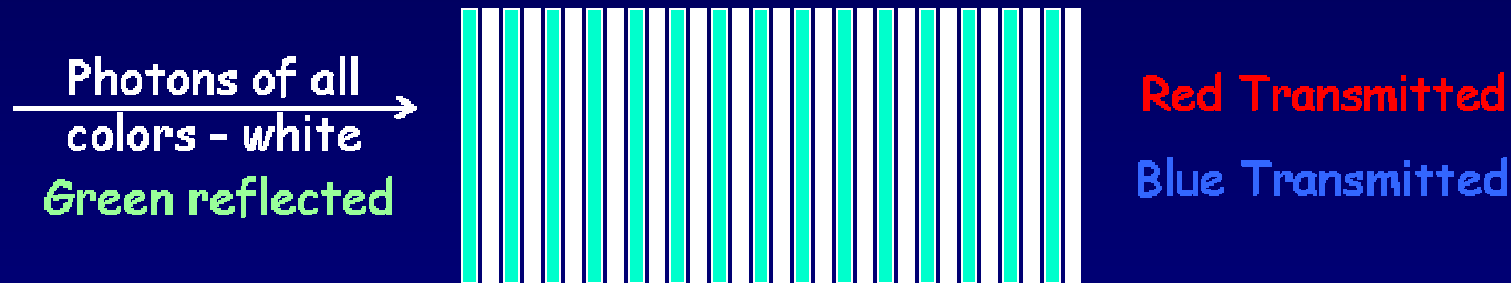
Interference filters do not absorb light (do not get hot) and are used in many applications: TV, photography, astronomy, ...

Examples: Red, Green, Blue (RGB) → Yellow, Cyan, Magenta

What is magenta?

Answer: Magenta = Red + Blue (no Green)

A magenta filter must have a stop band in the green, but pass red and blue:



Demonstration with a commercial interference filter

