

ABSTRACT

LIGHT GUIDE OPTICAL DEVICE

There is provided an optical device for partially reflecting a first set of light waves having a given polarization state and located within a given optical spectrum and within a first angular spectrum, and transmitting a second set of light waves having the same given polarization state and located within the same given optical spectrum and within a second angular spectrum including a first light-transmitting substrate having a surface, and a dichroic coating disposed on the surface, angles located within the first angular spectrum are smaller than angles located within the second angular spectrum and the reflectivity by the coated surface of the first set of light waves is higher than the reflectivity by the coated surface of the second set of light waves.

FIG. 4