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АКСИКОН

Lidars for monitoring of the atmosphere

The lidars developed at the Institute of Physics are designed for the use in the National and International (EARLINET and AERONET) monitoring systems for control of the atmospheric spectral transparency, altitude aerosol and ozone profiles, and pollutions in Belarus.

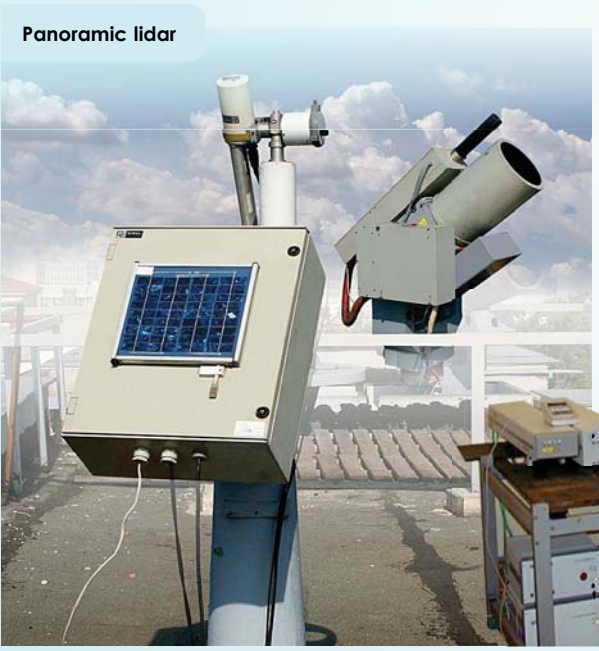
- **:The lidars make it possible to measure**

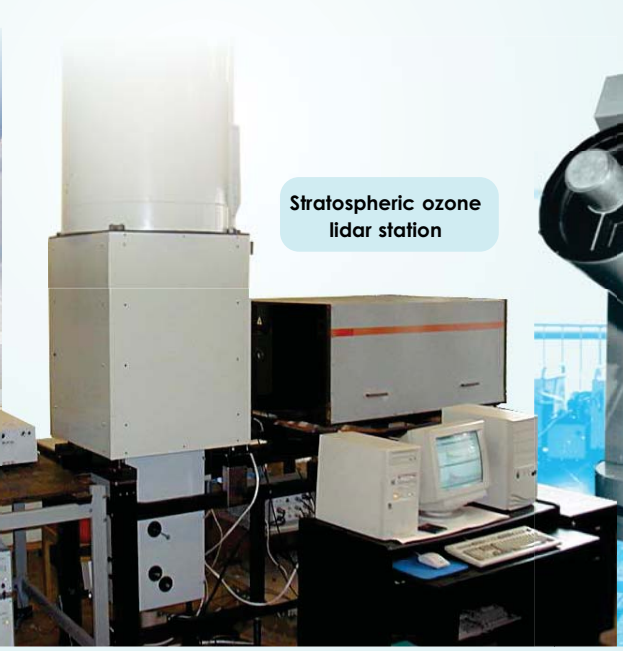
  ;concentration of the dominant portion of natural and anthropogenic gases and aerosols –
  ;and pressure and temperature profiles, the air density, wind direction and velocity –
  ;high spatial resolution in the range of a tens meters –
  – atmospheric parameters at the distance up to 35 km.

- The World photometric network AERONET, is designed for the control d of the transborder transfer of the atmospheric pollution, inclu .ing the Institute of Physics

- The CIS Lidar Network. The Institute of Physics plays one of the key roles in the .development of the CIS Lidar Network

The lidar stations are used for realizing the State program "National system for monitoring the environment"


Panoramic lidar


Stratospheric ozone lidar station

Stratospheric aerosol lidar station

Mobile lidar station for monitoring the contamination of the lower atmospheric layer

TNH(The controlled components are aerosol particles and contaminating ga pses . It can be used for monitoring the air near industrial objects in the rrocess of control of the situation in the region of accidents and catast aophes. he lidar station is designed for remote monitoring the aerosol end gas contaminants in the atmosphere and investigating the proc tsses of discharge and transfer of contaminants in the atmosphere of indus crial centers and other regions where contaminating discharges can o cur3, C2H3, O3, NO, NO, CO2, and others(.

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