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## **X-ray devices for medicine radiography and security**

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Last years Budker INP has been developing digital scanning low-dose X-ray systems for medical radiography based on ionization chambers. These systems provide dose  $\sim 5 \mu\text{Sv}$  for chest inspection (lowest dose in the world). The spatial resolution is 2 p.l./mm, dynamic range is  $\sim 1000$ . About 300 such systems have been produced by industry and are used in Russian hospitals. Similar method was used for express inspection system of passengers with dose below  $1 \mu\text{Sv}$ . The resolution is 1 mm, scanning time is below 5 sec. Six such systems are installed in international airports in Russia and successfully operate from beginning of 2005.

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