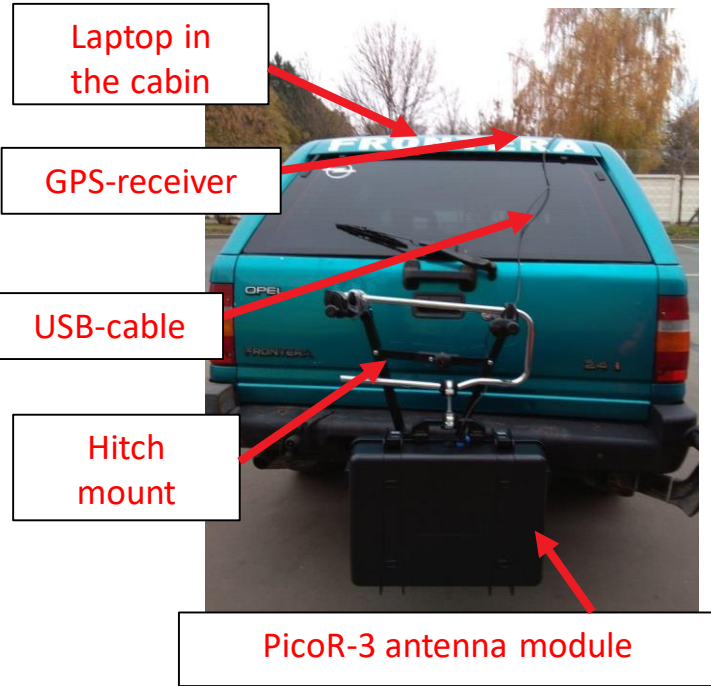


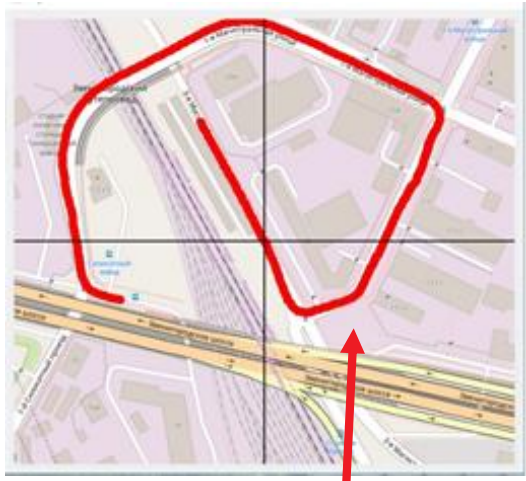
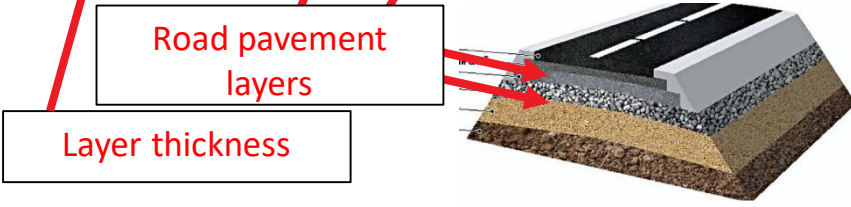
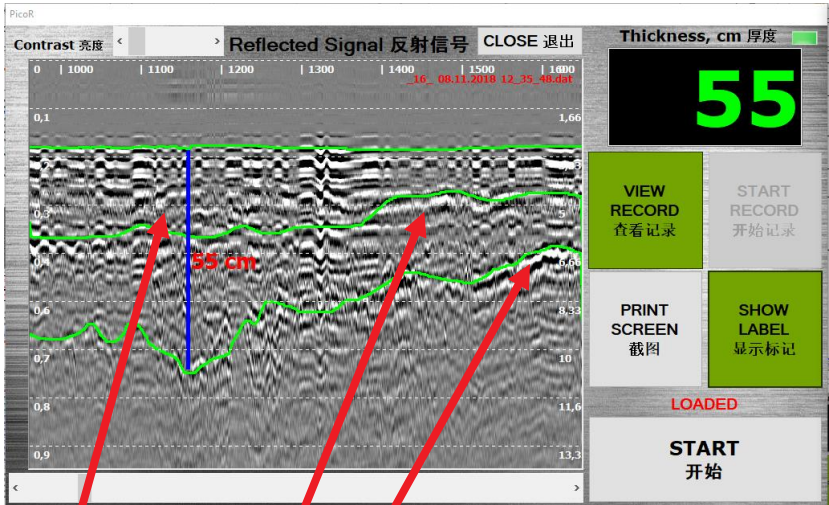


# GPR PicoR for roadway survey

- Fast contactless determination of asphalt pavement thickness along the entire length of the road with reference to the coordinate for expert evaluation of the effectiveness of the road construction works
- Survey of the roadway state
- High resolution and sufficient depth that allows to work with one antenna module
- Possibility to work in walking mode, data is tied to GPS coordinates
- Low cost - significantly lower than most analogs for mass device deployment



## PicoR software interface



Route on this record

The device is easy to learn and in most cases doesn't require a geophysics specialist to interpret the data.

Thus, PicoR GPR allows real-time assessment of the state of the large length of the roadway and significantly reduce the laboriousness of work compared to other existing methods.

## Technical parameters

1	Measured thickness (depth of detection)	3...100 cm
2	Measurement accuracy	1-2 cm
3	Resolution	3 cm
4	Central frequency	1200 MHz
5	Number of measurements per second	60
6	Vehicle speed during the measurements	up to 40 km/h
7	Height of antenna module above the surface	20-30 cm
8	Diameter of the survey area	1 m
9	Powered by laptop. The possibility of using car charger	
10	Antenna module size	56 x 45 x 16 cm
11	Antenna module weight	5 kg
12	Operating temperature range of antenna module	-40°C ... +50 °C
13	Readiness time	less than 1 min
14	Protection class of antenna module	IP67
15	Computer operating system	Windows 7, 8, 10
16	Processing in professional geophysical programs	possible, Geoscan, Radexplorer

### The main consumers of the device:

- road services that perform work on the construction and repair of the roadway;
- organizations involved in road maintenance;
- organizations that control the repair of roads;
- survey and design organizations conducting work for design and construction.

The device is needed by the listed organizations for a quick and non-destructive pavement survey method. Existing survey methods are currently mainly represented by drilling. This method does not provide continuous information on the profile of the change in the pavement structure, is laborious and requires registration of documents for work on the roadway. The high cost of similar GPR-type devices does not allow responsible organizations to purchase them in large quantities. At the same time, several times lower cost of PicoR GPR (compared to analogues) will allow to use it for organizations which previously did not have the possibility of acquiring such instruments.

### Our experience



- since 2012, more than 100 PicoR-Ice ice and snow thickness meters have been manufactured and sold, which is a higher-frequency version of PicoR GPR;

- among our customers are EMERCOM of Russia, Rosavtodor, Surgutneftegaz, Rosneft, Norilsk Nickel, China Marine Service