



GROUND STATIONS FOR
EARTH OBSERVATIONS FROM SPACE

UniScan™ is a multi-mission X-band ground receiving station for data acquisition from low-orbiting Earth observation satellites.

- Real-time data acquisition in radius up to 2,500 km from Russian satellites (Meteor-M, Kanopus V, Resurs-P) and as well as from foreign ones (Terra, Aqua, Suomi NPP, FengYun-3, SPOT 6/7, EROS B, Landsat-8, Sentinel-1A, KOMPSAT-3, RADARSAT-2, TerraSAR-X, COSMO- SkyMed and others);
- Data receiving in X-band with high rate (up to 750 Mbps in one channel).

Panda™ ground station is intended for data acquisition from meteorological satellites (NOAA, MetOp, FengYun series) in L-band.

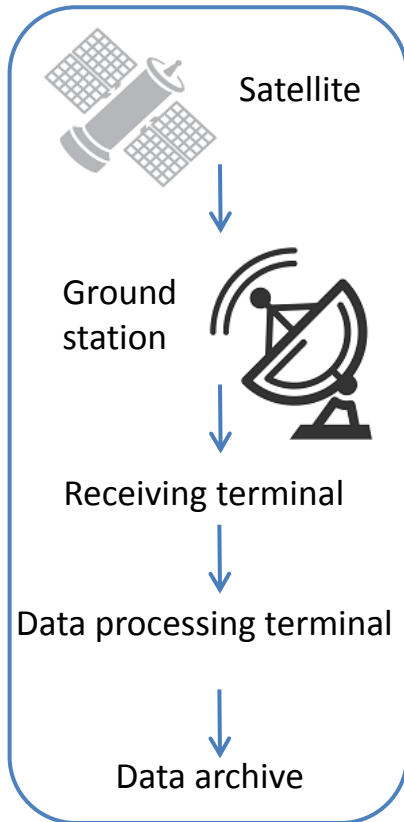
- Data rate is up to 60 Mbps;
- Ground stations are designed to be highly resistant to severe climatic conditions

! Group of UniScan™ ground stations can be combined to the network with a single control center.

More than 70 UniScan™ ground stations were installed in Russia, Ukraine, Kazakhstan, Uzbekistan, Spain, Vietnam, UAE, USA...



Principles of work



One of the key activities of “SCANEX” Holding is development and implementation of ground stations for receiving and processing satellite data from the Earth remote sensing satellites.*

Advantages of UniScan™ ground stations by “SCANEX”:

- possibility of easy adaptation of ground station to receive data from new satellites;
- data cost when receiving data on the own ground station is considerably lower compared with standard images, purchased from distributors or satellites operators;
- lightweight antenna systems of ground stations can be installed on almost any platform, including roofs;
- mobile station can be created on the base of UniScan™ ground station - deployment time from marching to work mode is 2-3 hours.

* “SCANEX” Holding is also develops and supplies terminals for preliminary data processing and producing standard RS products and develops software for receiving, processing, storage and supply images of the Earth from Space to consumers. Software of “SCANEX” enables to receive and process satellite data in a fully automatic mode.

**Composition of ground station:**

- antenna system,
- control unit,
- receiving terminal,
- processing terminal,
- network equipment,
- documentation.

Receiving terminal

Includes universal demodulator (one or more), PC (one or more), receiving software, UPS, connection interface with PC and automatic time synchronizing unit.

Processing terminal

Includes processing PC (one or more) and complete set of processing software.

Mounting option:

Control units and PCs of terminals can be supplied in a desktop design or mounted into a standard 19" rack.



UniScan™ (2.4 m)



UniScan™ (3.0 m)

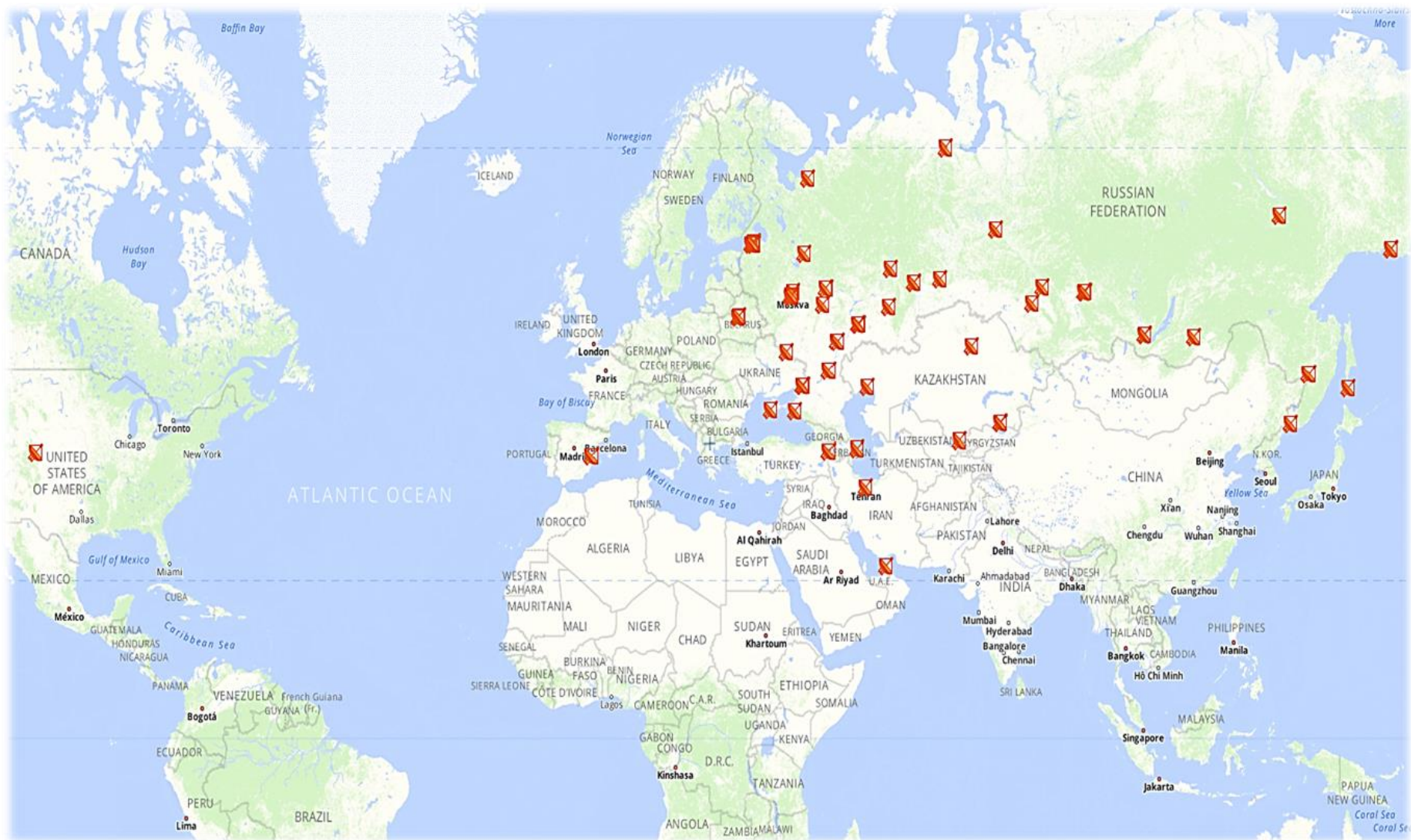
	UniScan™	
Antenna rotator type	2-axis (X-Y)	2-axis (X-Y)
Antenna dish diameter, m	2.4	3.0
Antenna system mass, kg	400	1000
Maximal power consumption, W	600	1000

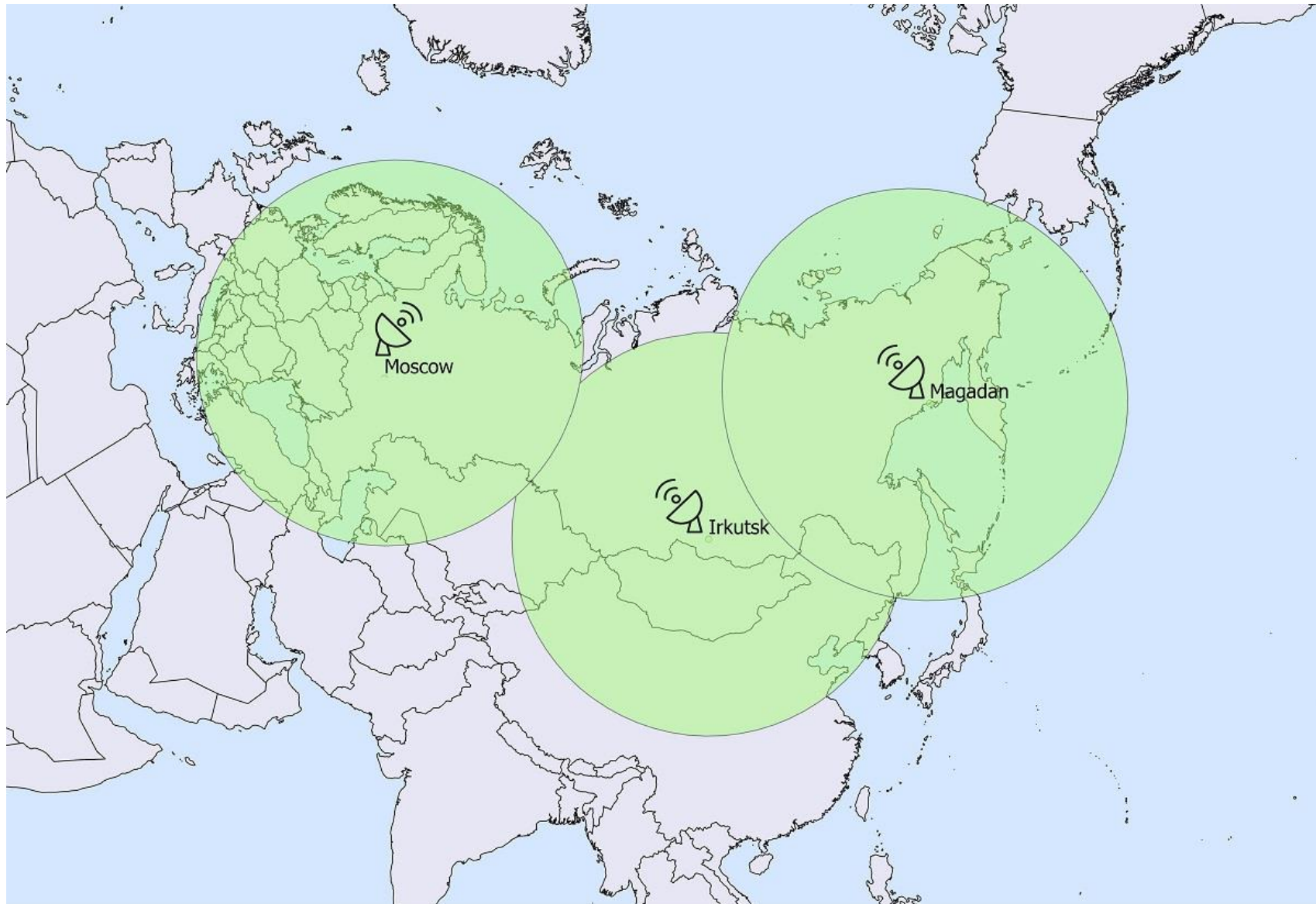


Mobile laboratory



Mobile antenna system of UniScan™ ground station





CENTERS OF SATELLITE MONITORING ON THE BASE OF UniScan™ TECHNOLOGY

On-line web-services



Vexcel Corp., USA

Thematic projects



Center of Geodesy and
Cartography, Armenia

NRT marine services



Global Scan Technologies LLC,
UAE

Disasters management



NCUKS of EMERCOM, Russia

*Hydrometeorology and
ecological monitoring*



UzHydromet, Uzbekistan

**and more than 70
other centers...**

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