

RACURS

Software solutions in the field
of photogrammetry, GIS & ERS



Content

About the Company	2
Team	3
Research and Development	4
Education Support Program	4
PHOTOMOD Software Family	6
PHOTOMOD Users	8
International Scientific and Technical Conference FROM IMAGERY TO DIGITAL REALITY: ERS & Photogrammetry	12

Racurs

Racurs Company has 25 years long history of success on Russian and worldwide geoinformatics market.

Since its foundation in 1993 our company has been developing an innovative digital mapping software for processing aerial, space and terrestrial imagery.

Our flagship product PHOTOMOD was one of the first digital photogrammetric systems on the market that was designated for working on off-the-shelf PCs.

Today PHOTOMOD is the most popular digital photogrammetric software in Russia and well known all over the world.

An international dealer network helps us to market, sell and support our products in 80 countries.

The main Racurs business activities are:

- PHOTOMOD development and further integration into Russian and international markets;
- Photogrammetric production services using both airborne and satellite imagery;
- R&D in the field of RSD processing software, methods, and algorithms;
- Remote-sensing data distribution in Russia and the CIS countries.



Sustaining Member



Member of International
Industrial Advisory Committee
(I2AC)



Team

Starting from a 4-person company in 1993, Racurs has grown to become a recognized leader in the geoinformation market. Today, Racurs comprises more than 50 specialists in photogrammetry, remote sensing and software development. Racurs staff is a close-knit team of professionals that has many times proven its ability to solve the most sophisticated problems.



Dr. Victor N. Adrov,
Managing Director



Dr. Andrey Yu. Sechin,
Scientific Director



Alexander D. Chekurin,
Sales & Marketing Director



Alexander N. Smirnov,
Technical Director



Licenses & Certificates

- Certificate of conformity GOST ISO 9001-2011 (ISO 9001:2008), Registration N2 SDS.AR.SMK.01442-17.
- PHOTOMOD™ is Registered EUTM, # 007451248.
- License on information security software development, Ministry of Defence of the Russian Federation.
- Certificate of conformity State Military Standart, # RV 0015-002-2012, 24.10.2018.
- Racurs is licenced by the The Federal Service for State Registration, Cadastre and Cartography of Russia to cartographical production. Licence No. 77-0052ZF, 23.11.2017.
- Certificate of conformity Software for Mine-surveying work, # SDS-PO.RU.2018.C.0024
- Registered Russian programs: DPW PHOTOMOD, PHOTOMOD GeoMosaic, PHOTOMOD UAS.
- Official Photogrammetric Suite in Republic of Korea (NGII, 2019)
- PHOTOMOD copyright is registered by the Russian Agency of legal protection of software and databases (RosAPO). Certificate No. 950392, dated 08.11.95
- Racurs owns PHOTOMOD trade mark registered in Russia in 1999.

Awards

The company's activity is highly esteemed by experts, as attested by our numerous awards.

- The Feodosy Nikolaevich Krasovsky Award for the best scientific and technical developments in geodesy and cartography, Rosgeocart (Russia), 2018.
- Best Partner Software Award, SI Imaging Service (Republic of Korea), 2018.
- The Most Innovative Partner, GeoEye (USA), 2009.



Racurs R&D

Racurs Company is experienced in science and development in the field of photogrammetry and remote sensing:

- Algorithms and methods development.
- Remote Sensing Data testing.
- Development of one-purpose solutions.

Completed projects:

- SI Imaging Services: Estimation of KOMPSAT-3 Imagery Potential for DSM Creation (2016)
- Pleiades Users Group: Estimation of the Pleiades Imagery (2013)
- Uragan Experiment. Ground test site estimation from International Space Station (2010)
- ISPRS-ISRO Cartosat-1 Scientific Assessment Programme (C-SAP): Cartosat-1 Stereo Orthokit Data Evaluation (2008)

Toolset development:

- PHOTOMOD StereoMeasure for solving problems of forest valuation.
- PHOTOMOD Stereo Client — web-stereovectorization.

International Education Support Program

According to this program organizations could purchase full-functional digital photogrammetric system PHOTOMOD with special discount. Racurs provides educational resources including imagery, guides, and laboratory courses.

40 universities | 300 licenses | 2000 students

Lomonosov Moscow State University (Russia), Moscow State University of Geodesy and Cartography (Russia), National Technical University of Athens (Greece), Yildiz Technical University (Turkey), Universidad Politecnica de Valencia (Spain), Universidad Nacional de San Juan (Argentina), Gansu Province Surveying and Mapping Engineering Institute (China), University of Zagreb (Croatia), University of Reggio Calabria (Italy), and many others.

PHOTOMOD™ Software Family



Digital Photogrammetric Workstation PHOTOMOD

DPW PHOTOMOD provides a closed production cycle, and involves the generation of many kinds of value-added products: digital maps, DEM, orthomosaics, 3D-vectors without the use of third party solutions.



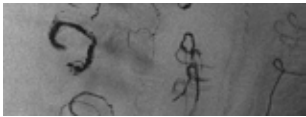
PHOTOMOD Conveyor. Automatic photogrammetric processing

PHOTOMOD Conveyor is a system of automatic photogrammetric processing, developed for working on high performance computers and can be adapted for the client requirements.



PHOTOMOD GeoMosaic. Combining georeferenced images

PHOTOMOD GeoMosaic is powerful software solution for combining georeferenced images from any sources into single seamless, color-balanced, geometrically perfect mosaic.



PHOTOMOD Radar. SAR data processing

PHOTOMOD Radar is intended for full-scale processing of Earth remote sensing data acquired by spaceborne radars with synthesized antenna aperture (SAR) such as KOMPSAT-5, Sentinel, ERS-1/2, Radarsat, SIR-C/X, ENVISAT ASAR, TerraSAR-X, ALOS, etc.



PHOTOMOD UAS. UAS data processing

PHOTOMOD UAS allows the user to process UAS data and acquire all types of value added photogrammetric products: DEM, dDSM, 2D and 3D-vectors, orthomosaics.



Utilities and free apps

PHOTOMOD Lite, PHOTOMOD Radar Viewer, PHOTOMOD Datum Parameters, PHOTOMOD DirectGeoreferencing, PHOTOMOD GeoCalculator

Racurs & PHOTOMOD

Today PHOTOMOD is the most popular digital photogrammetric software in Russia and is also used in 80 countries all over the world. PHOTOMOD is the only digital photogrammetric system with the Russian Federation Ministry of Defense certificate, the main digital photogrammetric software for the ROSCOSMOS Corporation, and Russian Federal Service for State Registration, Cadastre and Cartography (ROSREESTR).



80

countries
around the world

900

corporate
and individual customers

3,000

licenses

10,000

work places

PHOTOMOD localizations:



PHOTOMOD Users

Governmental, academic and commercial clients are using PHOTOMOD software for a number of widely diverse applications including, but not limited to:

- Topographic and cadastral mapping
- Orthophotomap production
- Forestry mapping
- Large scale mapping for the design and construction of highways, railroads and pipelines
- Environmental monitoring and disaster mapping
- Education and academic research

Users	Activities
State Space Agencies and Remote Sensing Data providers	Orthophotomap production, imagery estimation and analysis
State and commercial Mapping, Geodesy and Cadastral companies	Topographic and cadastral mapping, orthophotomap production, 3D modelling
Defence, Military, Emergency organizations	Topographic mapping, orthophotomap production, 3D modelling
Oil and Gaz companies	Topographic mapping, orthophotomap production, slick detection, monitoring
Highly specialized companies	Forest valuation, construction, design, land and terrain monitoring



PHOTOMOD Users

State Corporation ROSCOSMOS

ROSCOSMOS is a State Corporation that was established in August 2015 to oversee and implement a comprehensive reform of the Russian space industry.

State Space Corporation ROSCOSMOS ensures the implementation of the Russian government's space program and its legal regulation. ROSCOSMOS is also placing orders for the development, manufacture and supply of space equipment and space infrastructure objects.



The PHOTOMOD system is the main photogrammetric software in ROSCOSMOS

4 affiliated companies

200+ licenses

Research Center for Earth Operative Monitoring, Research Institute of Precision Instruments, Space Rocket Centre Progress, VNIIEM Corporation

Ministry of Defence of the Russian Federation

The main tasks of the Military Topographic Directorate of the General Staff of the Armed Forces is planning and organization of implementation of measures to improve the system of topogeodesic and navigational support of the Armed Forces.

The PHOTOMOD system is the main photogrammetric software in Military Topographic Directorate, Ministry of Defence of the Russian Federation.

100+ licenses



PHOTOMOD Users

Rosreestr

The Federal Service for State Registration, Cadastre and Cartography (Rosreestr) is the federal executive body that operates in the following fields: state registration and cadastre, land management, land monitoring and state land supervision, geodesy and cartography, supervision of activities of self-regulated organizations.



The PHOTOMOD system is the main photogrammetric software in The Federal Service for State Registration, Cadastre and Cartography.

40 affiliated companies
200+ licenses

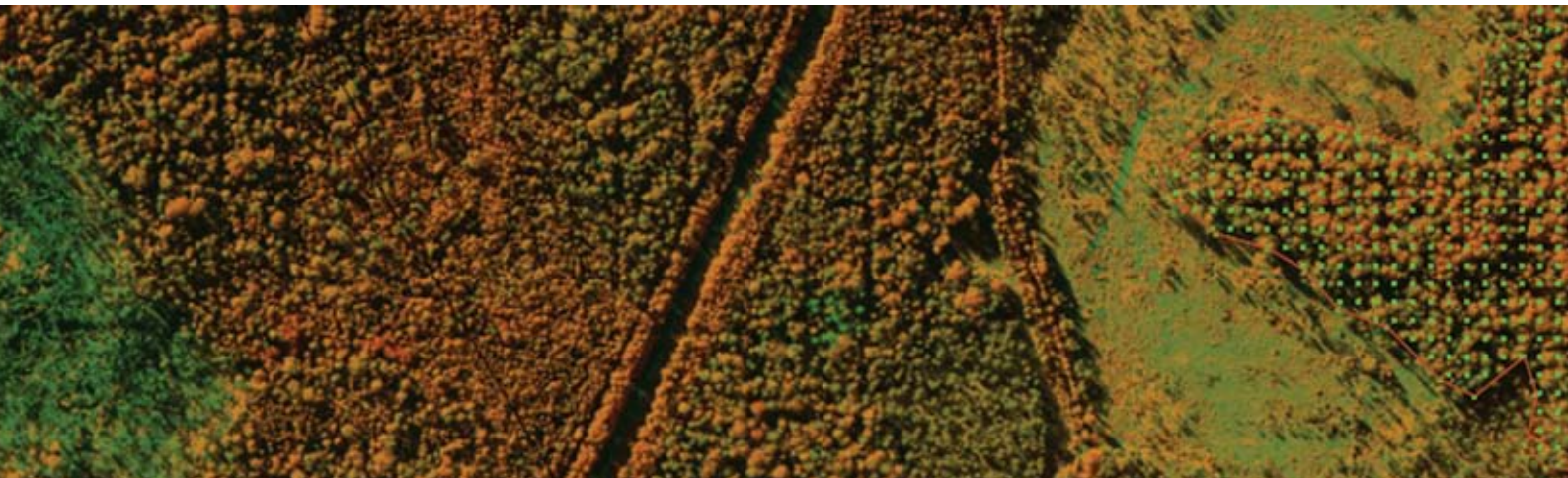
The Federal Forestry Agency

The Federal Forestry Agency carries out its activities directly, through its territorial bodies and subordinate organizations in cooperation with other federal executive bodies, executive authorities of the federal subjects of Russia, local self-government bodies, public associations and other organizations.



The PHOTOMOD system is the main photogrammetric software in the Agency for stereoscopic forest valuation.

10 affiliated companies
50+ licenses



PHOTOMOD Users

The State Committee for Land Resources, Cartography, Geodesy, and State Cadastre of Republic of Uzbekistan

The Committee is the developer of the National Geographic Information System (NGIS). The NGIS target goals are to provide the basic foundation and the basic platform support of E-government system of Uzbekistan. The NGIS is a basic information resource of e-government system.

The main objective of project is to develop and build the NGIS of Uzbekistan which collects and manages the data regarding the rational use as well as natural resources preservation in order to support timely and transparent the decision making for balanced socio-economic development across the country.

In the frame of this project **SI Imaging Service** (Republic of Korea) supplied KOMPSAT 3/3A imageries (mostly received in stereo mode) to the whole territory of Uzbekistan (447 400 sq.km), and **Racurs** put into the service 60 workplaces for stereophotogrammetric processing of remote sensing data.



FROM IMAGERY TO DIGITAL REALITY: Earth Remote Sensing & Photogrammetry

International Scientific and Technical Conference

The conference is a well-known international event which combines the users of geospatial data and technologies, the leading data and equipment providers and the latest theoretical insights and trends of remote sensing and photogrammetry. Due to the annual change in location, this conference has become a professional bridge between Russian and foreign specialists. The main conference topics are: remote sensing methods and techniques, space survey sensors, digital photogrammetry, UAS/UAV, 3D modeling, GIS and mapping.



September, 6-9, 2021
Irkutsk, Russia

Irkutsk, Russia, 2001; Saint Petersburg, Russia, 2002; Golitsino, Russia, 2003; Minsk, Belarus, 2004; Jurmala, Latvia, 2005; Becici, Montenegro, 2006; Nessebar, Bulgaria, 2007; Porec, Croatia, 2008; Attica, Greece, 2009; Gaeta, Italy, 2010; Tossa de Mar, Spain, 2011; Algarve, Portugal, 2012; Fontainebleau, France, 2013; Hainan, China, 2014; Yucatan, Mexico, 2015; Agra, India, 2016; Hadera, Israel, 2017; Crete, Greece, 2018; Seoul, Republic of Korea, 2019; [Irkutsk, Russia, 2021](#).



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