

RACURS

Software solutions in the field of photogrammetry, GIS and remote sensing

Racurs history



Content

About the Company	2
Team	3
Licenses and Certificates	4
Research and Development	
Education Support Program	
РНОТОМОД	6
PHOTOMOD Users	
Partners	11
International Scientific and Technical Conference «DIGITAL REALITY: Space & Geospatial Data, Processing Technologies»	

Racurs

Racurs Company has been successfully working on the Russian and world geoinformatics markets since 1993.

Our company was one of the first firms on the world market to offer a commercial digital photogrammetric workstation (DPW) for personal computers. Today, PHOTOMOD is the most popular digital photogrammetric software in Russia which is successfully operated in 80+ countries worldwide.

The main Racurs business activities are following:

- development and support of PHOTOMOD software for digital photogrammetric and radargrammetric processing of aerial and spaceborne imagery data;
- implementation of any size projects on remote sensing data (RSD) processing;
- R&D work in the field of RSD processing;
- technological consulting and supply of remote sensing data.



Sustaining Member since 1997





Member of International Industrial Advisory Committee (I2AC) since 2016



Team

At the time of its foundation in 1993, Racurs had a staff of only 4 people. With the development of the company, the number of employees increased and currently the team employs more than 50 highly qualified specialists, graduates of MIPT (PhysTech), MIIGAiK, Lomonosov MSU and other universities; 8 of them are PhDs.



Dr. Victor Adrov, Managing Director



Dr. Andrey Sechin, Scientific Director



Alexander Chekurin, Sales & Marketing Director



Alexander Smirnov, Technical Director



Licenses & Certificates

- Certificate of conformity to GOST requirements R ISO 9001-2015. Registration # NO 08.1.00003-2022 dated 19.12.2022.
- Certificate of PHOTOMOD program compatibility with operating system Astra Linux Special Edition # 27409/2025 dated 10.03.2025.
- Certificate of Conformity to the requirements of the Voluntary Certification System for Mine Surveying Software # SDS-PO.RU.2023.C.0044 dated 25.09.2023.
- PHOTOMOD [™] is Registered EUTM, # 007451248.
- Racurs is licensed by the Federal Service for State Registration, Cadastre and Cartography of Russian Federation for geodetic and cartographic activities. License # L036-00116-77/00129946 dated 23.11.2017.
- The rights to the PHOTOMOD trademark are registered in the Russian State Register of Trademarks and Service Marks on 07.05.99, Certificate # 174835, priority date - 30.12.1997.
- Register of Russian programs for electronic computers and databases: PHOTOMOD, registry # 2277; PHOTOMOD Radar, registry # 15407; PHOTOMOD GeoMosaic, registry # 2221; PHOTOMOD UAS, registry # 2220; PHOTOMOD AutoUAS, registry # 15324.
- Certificate of PHOTOMOD official registration for ECM # 2006611569 dated 11.05.2006.
- Certificate of PHOTOMOD Radar official registration for ECM # 2021666119 dated 08.10.2021.
- Certificate of PHOTOMOD GeoMosaic official registration for ECM # 2015616807 dated 24.06.2015.
- Certificate of PHOTOMOD UAS official registration for ECM # 2015616808 dated 24.06.2015.
- Certificate of PHOTOMOD AutoUAS official registration for ECM # 2021615322 dated 06.04.2021.
- Certificate of PHOTOMOD SE official registration for ECM # 2021681232 dated 20.12.2021.
- Certificate of PHOTOMOD-Conveyor-S official registration for ECM # 2012615201 dated 08.06.2012.
- Certificate of PHOTOMOD GeoCalculator official registration for ECM # 2021615244 dated 06.04.2021.
- Certificate of state registration of the Module program of neural network processing of lidar data for ECM # 2023684819 dated 20.11.2023.
- Certificate of state registration of the Module program of neural network processing of radiolocation data for ECM # 2023619458 dated 11.05.2023.

Racurs R&D

Racurs has an extensive experience in carrying out research and development works for government and private customers.

Research areas:

- Development of algorithms and methods of photogrammetric data processing.
- Creation of hardware and software complexes for streaming processing of remote sensing data.
- Creation of software complexes of SAR satellite data processing.
- Development of thematic applications based on photogrammetric methods.
- Testing the accuracy and visual properties of the images.
- Development of recommendations on accuracy control at different stages of photogrammetric data processing.
- Development of calibration methods for survey systems.

The high scientific potential of Racurs has been recognized with awards: The Feodosy Nikolaevich Krasovsky Award for the best scientific and technical developments in geodesy and cartography, (Rosgeocart, Russia, 2018); The Most Innovative Partner (GeoEye, USA, 2009); The Best Partner Software Award (SI Imaging Services, Republic of Korea, 2018) and many others.

Racurs became the winner of the BRICS Solutions Awards International Contest in the Sky, Space and Communication Technologies nomination in 2024.

Education Support Program

The program is offered for universities in Russia and CIS countries. According to the program, universities have an opportunity to purchase full-featured licenses of PHOTOMOD digital photogrammetric workstation with a special discount. To participate in the program, the university must submit a letter guaranteeing the use of the system only for educational purposes and for students of this university. The letter must be signed by the rector and stamped by the university.

Program participants are provided with methodological tools and demonstration data on processing of aerial, space and UAS-borne imagery.

Universities-users of PHOTOMOD: Moscow State University of Geodesy and Cartography (MIIGAiK), Lomonosov Moscow State University (MSU), Siberian State University of Geosystems and Technologies (SSUGT), The State University of Land Use Planning, Ural Federal University named after the first President of Russia B.N.Yeltsin and many others.

PHOTOMOD platform

Currently, PHOTOMOD platform integrates a wide range of software tools for photogrammetric processing of remote sensing data, allowing to obtain spatial information based on images of almost all commercially available imaging systems, such as framing digital and film cameras, high-resolution satellite scanners, as well as synthetic aperture radars (SAR).

The platform provides an ability to flexibly configure and scale technologies in order to organize collective distributed work on production projects in various computing environments, including cloud one.

















Digital photogrammetric workstation PHOTOMOD

Solution for the whole range of tasks from data collection for constructing phototriangulation networks to creating 3D terrain models.

PHOTOMOD UAS, PHOTOMOD AutoUAS

UAV data processing with obtaining all types of photogrammetric products, including in fully automatic mode.

PHOTOMOD GeoMosaic

Stitching of georeferenced raster images.

PHOTOMOD Radar

Processing of remote sensing data obtained by SAR.

PHOTOMOD Conveyor

Automatic processing of remote sensing data on powerful computing clusters.

PHOTOMOD Neuro

Classification of point clouds using neural networks.

PHOTOMOD Radar Neuro

Object recognition and classification on radar data using neural networks and correlation processing methods.

Free applications

PHOTOMOD GeoCalculator, PHOTOMOD Lite, Calculation of 7 parameters, Calculation of projection parameters, Direct Georeferencing, PHOTOMOD Radar Viewer.

PHOTOMOD geography

PHOTOMOD is the most widespread commercial photogrammetric workstation in Russia and it is also successfully used in 80+ countries worldwide.



80+ countries

1200+ corporate users

J JUU-

12 000+ work places

PHOTOMOD localizations:



Supported operating systems:



PHOTOMOD Users

Governmental, educational and commercial organizations use PHOTOMOD to solve a variety of tasks, including:

- Land mapping
- Creation of orthophotomaps and digital terrain models
- Cadastral works
- Forest valuation and ecological monitoring
- Creation of 3D city models
- R&D works and education

Users	Activity	
Operators of spaceborne remote sensing data	Creation of orthophotomaps, terrain models, evaluation of geometric and cartographic images characteristics	
Mapping, Geodesy and Cadastral companies	Topographic and cadastral mapping, orthophotomap production, 3D modelling	
Defense departments and emergency services	Topographic survey, real-time monitoring, construction of relief and terrain digital models	
Mining companies	Topographic survey, orthophotomap production, 3D modelling, objects and site monitoring, measurement and evaluation	
Niche companies	Forest valuation, design, engineering, analytics, etc.	



The most significant user enterprises in Russia

State Space Corporation ROSCOSMOS

ROSCOSMOS is a State Corporation established in August 2015 to carry out a comprehensive reform of Russia's rocket and space industry. State Corporation Roscosmos ensures the implementation of state policy in the field of space activities and its regulatory framework, and also places orders for the development, production and supply of space technology and space infrastructure facilities.



PHOTOMOD is the main photogrammetric system in ROSCOSMOS.

9 companies 200+ licenses

Research center for Earth operative monitoring, Scientific Research Institute of precision instruments (RI PI), VNIIEM Corporation, Space-Rocket Centre PROGRESS (RKTs-Progress), Lavochkin Association and others.

Ministry of Science and Higher Education of the Russian Federation Federal executive authority carries out functions for the development and implementation of state policy and legal regulation in the field of higher education and relevant additional professional education, as well as scientific, scientific-technical and innovative activities and the development of federal centers of science and high technology, state scientific centers and science cities.

PHOTOMOD is the most popular photogrammetric software used in Earth sciences research in educational institutions.

90+ institutes and universities 335+ licenses

MIIGAiK, SSUGT, Lomonosov MSU, MIPT (PhysTech), FEFU, FESTU, UUST, VSUFT, SPbU, SPbSAU, Innopolis University, NArFU, and others.

The most significant user enterprises in Russia

PLC Roscadastr

The company is engaged in geodetic and cartographic activities, cadastral and land management works, as well as works necessary for entering information on the boundaries of various zones and territories into the Unified State Register of Real Estate. The company's activity is aimed at increasing the efficiency of land resources utilization and involvement of territories for housing construction, reducing the time of service provision, as well as increasing the number of services provided electronically.

PHOTOMOD is the base photogrammetric system for creating the map base of the Russian cadastre.

130+ enterprises 200+ licenses

JSC Verchnevolzhskoe aerogedetic enterprise, Uralgeoinform and other branches of PLC Roscadastr in Federal subjects of the Russian Federation.

Federal Forestry Agency

Federal executive authority that carries out functions to implement state policy, provide state services and manage state property in the field of forestry.

PHOTOMOD is the key photogrammetric system for performing forestry valuation works using stereoscopic method.

14 enterprises 50+ licenses

Roslesinforg, Sevzaplesproject, Dallesproject, Vostsiblesproject, Avialesokhrana and others.





Partners

Providers of remote sensing data

JSC Russian Space Systems, Space-Rocket Centre PROGRESS (RKTs-Progress) and other leading remote sensing data operators of Russia and China.

Technological partners

KB Panorama, Scanex Group, Roslesinforg, Unmanned systems group SUPERCAM, Lesprojekt, GeoCloud, Innogeotech, Innovative Centre, UE Invalev A.S. and others.

R&D partners

PLC Roscadastr, Scientific Research Institute of precision instruments (RI PI), JSC Ural-Siberian Geo-Information Company (USGIK), LLC NPF GEO, JSC MIC NPO Mashinostroyenia, JSC TsNIIMash, Public Joint Stock Company Surgutneftegas, JSC Kadastrsyomka and others.

Educational organizations, associations, media

MIIGAiK, SSUGT, Lomonosov MSU, MIPT (PhysTech), ISPRS, Rosgeokart, GIM International, Geoprofi and others.



DIGITAL REALITY: Space & Geospatial Data, Processing Technologies

2001 - 2020: International Scientific and Technical Conference «FROM IMAGERY TO DIGITAL REALITY: ERS and Photogrammetry» brings together the best specialists of the industry from dozens of countries around the world and opens up opportunities for them to discuss the most topical issues of ERS, aerospace data processing technologies and cartography.

Since 2021, the Conference has changed its name and is now called: International Conference **«Digital** Reality: Space and Spatial Data, Processing Technologies».



Irkutsk, Russia, 2001; St. Petersburg, Russia, 2002; Golitsyno, 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; St. Petersburg, Russia, 2022; Sochi, Russia, 2023; Minsk, Belarus, 2024, Ekaterinburg, Russia, 2025.





JSC RACURS Yaroslavskaya Str., 13A, office 15, Moscow, Russia, 129366 +7 (495) 720 51 27 info@racurs.ru https://en.racurs.ru