

DIGITAL TECHNOLOGIES ON POSTAGE STAMPS

Over a period of several years, JSC Marika has been implementing a project of issuance of sovereign sheets and postage stamps with the augmented reality technology. The application of modern visual technologies makes it possible to go beyond the boundaries of the usual perception of a postal miniature as a state valuable postal matter and expand its value to the public. In the future, such postage stamps will offer an unlimited access to the world of information for collectors and all users of postal services, as to provide the means of appreciable extension of the scientific and enlightening potential of postage stamps and shall attract more people, including children and youth, to philately.

TO USE THE SERVICE YOU SHOULD:

1. Download and install the mARko application. Allow access of the application to your device's camera.
2. Watch a clip on how the application works or click button **Help**.
3. Place the camera on the stamp so that its image is inside the viewer frame. A 3D model will show itself. Follow the on-screen prompts.
4. Scan the space, then click button **3D**.
5. The animated model will appear in an enlarged view.
6. To view another stamp, simply show it to the camera lens.
7. To access the main menu, click the "H" icon in the top right corner.
8. To return to the AR mode, click the **3D** button.
9. The My Collection section gives you an opportunity to view and buy all stamps available for viewing in the AR mode. The viewed stamps will appear colored and bright in the stockbook.

BUILD YOUR OWN COLLECTION OF AUGMENTED REALITY STAMPS!

2021. 800th Anniversary of Nizhny Novgorod

Sheet of 12 stamps with illustrated margins
Face value: 50.00 RUB (Registered letter)
Technique: Offset + Security Complex
WNS: RU037.21

Nizhny Novgorod is the administrative center of the Nizhny Novgorod Region of Russia, the capital of the Volga Federal District. The population of the city is more than 1,200,000 residents.

The rapid economic development of Nizhny Novgorod began in the 19th century owing to the advent of the Russia largest fair. Today, the city is a major center of shipbuilding, aircraft and motorcar industries and information technology, as well as the largest center of river tourism in Russia. Nizhny Novgorod has more than 600 unique historical, architectural and cultural monuments. This afforded ground for the UNESCO to put Nizhny Novgorod on the list of 100 cities of global historical and cultural significance.

2021. Ekaterinburg is a City of Labor Valor

Sheet of 9 stamps
Face value: 60.00 RUB (Registered letter)
Technique: Offset + Security Complex
WNS: to be assigned

The City of Labor Valor is an honorary title of the Russian Federation established by the federal law of March 1, 2020 "in order to perpetuate the feat of home front workers during the Great Patriotic War of 1941–1945". It is awarded to cities of the Russian Federation whose residents "made a significant contribution to achieving Victory in the Great Patriotic War of 1941–1945, ensuring uninterrupted production of military and civilian products at industrial enterprises located on the territory of the city, and at the same time showing mass labor heroism and dedication".

2022. 2nd International Tiger Forum

Sheet of 8 stamps with illustrated margins
Face value: 25.00 RUB (Ordinary letter)
Technique: Offset + Security Complex
WNS: to be assigned

The 2nd International Tiger Forum was held in September of 2022 in Vladivostok; it brought together country leaders, representatives of relevant ministries and agencies, scientists and international experts in the field of endangered species protection.

The countries of the tiger distribution area have increased the protection of the species and its habitats, stepped up the fight against poaching, and are carrying out systematic work to resolve conflicts between humans and tigers as well as to provide ecological education for the population.

2022. Fauna of Russia. Songbirds. Jay

Sheet of 8 (4 designs) stamps with illustrated margins
Face value: 25.00 RUB (Ordinary letter)
Technique: Offset self-adhesive + Security Complex
WNS: to be assigned

Songbirds are predominantly members of Passeriformes, wood inhabitants in the forest, capable of producing harmonious sequences of sounds that are perceived by humans as songs. There are more than 5,000 species in the world common in all countries. Most of these birds are migrants, but there are also resident ones, who do not leave their usual inhabitations for the winter. About 300 species of songbirds live in Russia. The well-known and most beautiful of them are a bunting, a kinglet, a jay, and a robin.

2022. Fauna of Russia. Songbirds. Black-headed bunting

Sheet of 8 (4 designs) stamps with illustrated margins
Face value: 25.00 RUB (Ordinary letter)
Technique: Offset self-adhesive + Security Complex
WNS: to be assigned

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2022. Fauna of Russia. Songbirds. Robin

Sheet of 8 (4 designs) stamps with illustrated margins
Face value: 25.00 RUB (Ordinary letter)
Technique: Offset self-adhesive + Security Complex
WNS: to be assigned

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2022. Fauna of Russia. Songbirds. Golden-crested kinglet

Sheet of 8 (4 designs) stamps with illustrated margins
Face value: 25.00 RUB (Ordinary letter)
Technique: Offset self-adhesive + Security Complex
WNS: to be assigned

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2022. Arctic Tourism. The village of Tenberka in the Murmansk Region

Sovereign sheet of 2 stamps
Face value: 27.00 RUB and 63.00 RUB (Ordinary and Registered letters)
Technique: Offset + Security Complex
WNS: to be assigned

Tenberka is a village in the Murmansk Region on the shore of the Barents Sea. It is famous for its incredible atmosphere and exotism, an opportunity to taste the cozy local cuisine and delight in the endless expanses of tundra, the picturesque northern light, quiet townsmen of the past and vessels of ships.

Tourist operators of the Russian Federation offer sea cruises, rafting, boating, fishing and hunting, skiing and hiking trails in the Arctic region.

2022. Resort of the North Caucasus Elbrus

Sheet of 8 (2 designs) stamps with illustrated margins
Face value: 65.00 RUB (Registered letter)
Technique: Offset + Security Complex
WNS: to be assigned

Elbrus is a mountain resort in Kabardino-Balkaria in operation since the 1970s. It is one of the key centers for all-Russian and international winter sports competitions and training of alpine ski teams of the country.

2022. Resort of the North Caucasus Arkhyz

Sheet of 8 (2 designs) stamps with illustrated margins
Face value: 65.00 RUB (Registered letter)
Technique: Offset + Security Complex
WNS: to be assigned

Arkhyz is an up-to-date young resort in the mountains of Karachay-Cherkessia. It is an off-season resort visited by up to 700 thousand tourists a year. It hosted its first guests in the winter of 2013, and presently, it is one of the three chief alpine ski centers of the country.

2023. The House of Receptions of the Ministry of Foreign Affairs of Russia

Sheet of 11 stamps and a coupon
Face value: 75.00 RUB (International letter)
Technique: Offset + Security Complex
WNS: to be assigned

The House of Receptions of the Ministry of Foreign Affairs of Russia is a former Morozov mansion on Spiridonovka Street in Moscow. The building was designed by architect Pyotr Shekhal and painter Mikhail Vrubel was invited to decorate the ceremonial interior. After nationalization, the building was transferred to the People's Commissariat of Foreign Affairs. Since 1938, it has been the House of Receptions of the Ministry of Foreign Affairs of the Russian Federation.

2023. Lighthouses of Russia. Gorodets Lighthouse

Sheet of 15 stamps with illustrated margins
Face value: 50.00 RUB (Registered card)
Technique: Offset + Security Complex
WNS: to be assigned

The Gorodets Lighthouse was commissioned for operation in 1898. It is located on the shore of the White Sea in the northeastern part of the Kola Peninsula. Nowadays, it is a multifunctional complex, which incorporates a lighthouse in the form of a stone yellow tower, standing high above the red one-story tall house, a lighthouse technical building with equipment, two duplex dwelling houses, petrol, oil and lubricants depots and outbuildings. The tower is 18 m high from the base and 35 m from sea level. The lighthouse beacons with white flashing lights for up to 26 miles.

2023. Lighthouses of Russia. Sarych Lighthouse

Sheet of 15 stamps with illustrated margins
Face value: 50.00 RUB (Registered card)
Technique: Offset + Security Complex
WNS: to be assigned

The Sarych Lighthouse was founded in 1898. It is located on the shore of the Black Sea in the southwestern part of the Crimean Peninsula. The lighthouse is a tower of 12 m high made of cast iron resembling a giant chess piece. The total height of the building is 37.5 m. The Sarych Lighthouse is equipped with up-to-date instrumentation, a radio navigation system and radio equipment. The white light of the lighthouse is visible to ships from more than 20 miles away.

2023. 200th Birth Anniversary of Alexander Ostrovsky (1823–1886), playwright

Sheet of 9 stamps
Face value: 63.00 RUB (Registered letter)
Technique: Offset + Security Complex
WNS: to be assigned

Alexander Ostrovsky (1823–1886) was a playwright whose creative work was a most significant stage in the development of the Russian national theater; he was a Corresponding Member of the St. Petersburg Academy of Sciences.

The playwright wrote about 50 plays, among them *A Profitable Avulsion* (1856), *The Storm* (1859), *Mad Money* (1869), *The Forest* (1870), *The Snow Maiden* (1873), *Without a Doubt* (1878), and many others. The name of Ostrovsky is related to a whole epoch in the development of the Russian theater. He translated Cervantes, Shakespeare, Terence, and Goldoni.

2023. 150th Birth Anniversary of Feodor Shalyapin (1873–1938), opera singer

Sovereign sheet of 1 stamp
Face value: 150.00 RUB (International registered letters)
Technique: Offset + Security Complex
WNS: to be assigned

Feodor Shalyapin (1873–1938) was a Russian opera and chamber singer (bass), the first People's Artist of the Republic. He had a major impact on the world operatic art.

Since 1899, Shalyapin was the leading soloist of the country's Imperial Theaters – the Bolshoi Theatre in Moscow and the Mariinsky Theatre in St. Petersburg. The singer's repertoire included about 400 works of different genres, mainly of chamber and folk song ones.