RMN-GP’s store offers the sale and communication of high-quality 3D scan files.

5 June 2022, screen capture of https://www.photo.rmn.fr/CS.aspx?VP3=CM53&VF=RMNR5N_92_VForm&FRM=Frame%3aRMNR5N_95

Text: « Discover our catalog of 3D reproductions from the most beautiful French museum collections!

These 3D reproductions return in the smallest details the geometry and the original materials of the real works. »
RMN-GP’s store offers the sale and communication of high-quality 3D scan files of the work « Panthère marchant »
5 June 2022, screenshot of https://www.photormn.fr/C.aspx?VP3=SearchResult_VPage&STID=2C6NU0AKQ9ZLI
(the first two pages refer to inoperable pages)
RMN-GP’s store offers the sale and communication of high-quality 3D scan files of the work « Panthère marchant »
5 June 2022, screenshot of https://www.photo.rmn.fr/archive/R6N135437-2CMFQE2BIDO.html (the red lines are added and do not appear on the original page)
RMN-GP’s store offers the sale and communication of high-quality 3D scan files of the work « Panthère marchant »
5 June 2022, screen capture of https://www.photo.rmn.fr/mycart (the red lines are added and do not appear on the original page)
RMN-GP advertisements offering to communicate 821 high-quality 3D scans, identifying the filenames of the low-quality versions
14 July 2022, screen capture of https://sketchfab.com/francecollections/models (the red lines are added and do not appear on the original page)
RMN-GP advertisement offering to communicate high-quality 3D scan files, identifying the filenames of the low-quality versions
5 June 2022, screen capture of https://sketchfab.com/3d-models/panthere-marchant-rembrandt-bugatti-668fb318ce0446c4adfe6fe16949be27 (red lines added)

This is a light 3D model for web display. To use the high quality model contact agence.photo@rmnpg.fr
RMN-GP advertisement offering to communicate high-quality 3D scan files, identifying the filenames of the low-quality versions
5 June 2022, screencapture of https://sketchfab.com/3d-models/panthere-merchant-87478ecb8a7546ef911804e755e5f65 (red lines added)
Subject: « Panthère marchant - Rembrandt Bugatti »

URL of RMN-GP’s advertisement of 5 January 2018: https://sketchfab.com/3d-models/panthere-marchant-rembrandt-bugatti-668fb318ce0446c4adfe6fe16949be27

Text of the advertisement: (bold added)

Panthère marchant
Rembrandt Bugatti (1884-1916)
Walking Panther
RF005988
LIEU DE CONSERVATION DE L’ORIGINA: Paris, musée d’Orsay
Original en plâtre
Reproduction Rmn-GP en résine
DIMENSIONS: Hauteur: 24 cm Largeur: 49 cm Profondeur: 23 cm
Ateliers d’art des musées nationaux
L’Agence Photo
This is a light 3D model for web display. To use the high quality model contact agence.photo@rmngp.f
© Rmn-GrandPalais/Reproduction 3D Rmn-GP

3D data files displayed in the advertisement:

RF005988.fbx ( 20MB ) ( Environ 60000 triangles et 30000 sommets )

Associated colorimetric data files displayed in the advertisement:

RF005988_normals.jpg ( 4MB ) ( 4096x4096 )
RF005988_occlusion.jpg ( 3MB ) ( 4096x4096 )
RF005988_LP_600k_0.png ( 16MB ) ( 8192x8192 )
RF005988_normals.jpeg ( 4MB ) ( 4096x4096 )

Information collected from RMN-GP’s advertisement on 5 June 2022
Subject: « Panthère marchant »

URL of RMN-GP’s advertisement of 20 December 2021:
https://sketchfab.com/3d-models/panthere-marchant-87476ecb8a7546ef911804e7555e5f65

Text of the advertisement: (bold added)

Panthère marchant
Rembrandt Bugatti (1884-1916)
RF005988
LIEU DE CONSERVATION DE L’ORIGINAL: Paris, musée d’Orsay
Original en plâtre
Reproduction Rmn-GP en résine
DIMENSIONS: Hauteur: 24 cm Largeur: 49 cm Profondeur: 23 cm
Ateliers d’art des musées nationaux
L’Agence Photo
This is a light 3D model for web display. To use the high quality model contact agence.photo@rmngp.fr
© Rmn-GrandPalais/Reproduction 3D Rmn-GP

3D data files displayed in the advertisement:

- RF005988_PanthereMarchant_RembrantBugatti_LP.obj (30MB) (Environ 221900 triangles et 129500 sommets)

Associated colorimetric data files displayed in the advertisement:

- RF005988_PanthereMarchant_RembrantBugatti_LP.mtl (741B)
- RF005988_PanthereMarchant_RembrantBugatti_LP.1001_ao.jpg (8MB) (8192x8192)
- RF005988_PanthereMarchant_RembrantBugatti_LP.1001_basecolor.jpg (8MB) (8192x8192)
- RF005988_PanthereMarchant_RembrantBugatti_LP.1001_metalness.jpg (4MB) (8192x8192)
- RF005988_PanthereMarchant_RembrantBugatti_LP.1001_normal.jpg (7MB) (8192x8192)
- RF005988_PanthereMarchant_RembrantBugatti_LP.1001_roughness.jpg (10MB) (8192x8192)
- RF005988_PanthereMarchant_RembrantBugatti_LP.1002_ao.jpg (6MB) (8192x8192)
- RF005988_PanthereMarchant_RembrantBugatti_LP.1002_basecolor.jpg (9MB) (8192x8192)
- RF005988_PanthereMarchant_RembrantBugatti_LP.1002_metalness.jpg (4MB) (8192x8192)
- RF005988_PanthereMarchant_RembrantBugatti_LP.1002_normal.jpg (5MB) (8192x8192)
- RF005988_PanthereMarchant_RembrantBugatti_LP.1002_roughness.jpg (12MB) (8192x8192)
- RF005988_PanthereMarchant_RembrantBugatti_LP.1003_ao.jpg (8MB) (8192x8192)
- RF005988_PanthereMarchant_RembrantBugatti_LP.1003_basecolor.jpg (7MB) (8192x8192)
- RF005988_PanthereMarchant_RembrantBugatti_LP.1003_metalness.jpg (3MB) (8192x8192)
- RF005988_PanthereMarchant_RembrantBugatti_LP.1003_normal.jpg (4MB) (8192x8192)
- RF005988_PanthereMarchant_RembrantBugatti_LP.1003_roughness.jpg (10MB) (8192x8192)
- RF005988_PanthereMarchant_RembrantBugatti_LP.1004_ao.jpg (3MB) (8192x8192)
- RF005988_PanthereMarchant_RembrantBugatti_LP.1004_basecolor.jpg (3MB) (8192x8192)
- RF005988_PanthereMarchant_RembrantBugatti_LP.1004_metalness.jpg (2MB) (8192x8192)
- RF005988_PanthereMarchant_RembrantBugatti_LP.1004_normal.jpg (2MB) (8192x8192)
- RF005988_PanthereMarchant_RembrantBugatti_LP.1004_roughness.jpg (4MB) (8192x8192)
- internal_ground_ao_texture.jpeg (11kB) (512x512)

Information collected from RMN-GP’s advertisement on 5 June 2022
Promotional interview of RMN-GP of 8 May 2018, confirming the sale of 3D scans in recent past 28 June 2022, screen capture of https://sketchfab.com/blogs/community/seller-spotlight-rmn-gp-photo-agency/ (the red lines are added and do not appear on the original page)
How did RMN-GP Photo Agency begin working with 3D?
The agency began 3D scanning in 2013 and has produced models with more than 12 national museums including Le Louvre, Orsay Museum, Sèvres Limoges, the Picasso Museum, the Guimet Museum of Asian Art and more.

All the models the agency produces are made available to institutions to enable their mediation and promotional activities.

How is Sketchfab used at RMN-Grand Palais?
All RMN3D models are available on Sketchfab and in turn are embedded back into the website of the Photographic Agency of the RMN-Grand Palais.

The Sketchfab platform allows us to host and publish 3D files online and the 3D player allows the display of models on all browsers and on any screen – from smartphones and tablets to virtual reality headsets.

Publishing on Sketchfab allows easy integration of the models on the museum websites, as well as on social networks without having to install a particular plug-in.

The museums can then display 3D models of the works in their collections directly on their own websites, but also on the social networks or on scholarly websites such as Panorama de l’Art.

Why did you decide to offer 3D models via the Sketchfab Store? How easy was it to use the Store (i.e. upload models, set a price, share).

The Sketchfab platform is perfectly adapted to our needs: we can put high quality, high resolution models online, which is very important for the scientific community of museums. Many other museums around the world have also chosen to share on Sketchfab and it has been obvious to us to offer a selection of models for direct purchase on the website. Selling from the website is very simple and we can easily adapt and modify the price or the selection of models available for sale.
Why is it important to allow for commercial re-use of cultural heritage 3D content?

How do you hope the 3D data will be re-used?

The presence of models from French national museums is very important because their display allows the promotion of these works of art. Their commercial use maybe in movies, video games or on the web and social networks contributes to knowledge and artistic education.

We acknowledge that the opportunities for re-use of 3D scanned cultural models is in its early stages and are please to be leading the way.

How and why does RMN-GP currently use 3D content online and within exhibitions (e.g. Sites éternels, Gauguin l'alchimiste)?

In 2016, the agency made 3 models that were integrated into the scenography of the exhibition “Eternal sites” at the Grand Palais. Three emblematic works lent by the Louvre Museum were modeled and presented in the introduction of each sequence of the film “universal space”, thus linking immersive videos and real works presented to the public.

The “Gauguin l'alchimiste” exhibition at the Grand Palais in 2017 was also an opportunity to highlight the agency’s 3D models: more than 30 works by Paul Gauguin have been digitized in photogrammetry with a very high precision guaranteeing their geometric and colorimetric conformity: twenty-one carved and ceramic sculptures and eleven paintings, lent by the Musée d’Orsay, have been modeled. These 3D models have been included with the film’s broadcast along the exhibition and extend the catalog and other publications of the RMN-Grand Palais with augmented reality.

How do you see 3D changing the way museums and cultural organisations work in the future?

3D models are becoming increasingly important for sharing, dissemination and exhibition use. 3D models are particularly suitable for use on interactive displays in museums, where museum patrons can view all sides of the work and zoom in or out to view all the details. In the future, augmented reality will enhance book editions, postcards and other print media.

Another direct application concerns education, given the current capabilities of smartphones and tablets, the potential impact of augmented reality could be very important in the short term.
Preparing 3D data for re-use

Describe a typical workflow for how you create or capture 3D?

What tools or equipment do you use?

Two modes of acquisition are now used by the agency, these are:

- Scanning by 3D scanner, mainly used Artec Eva and Artec Spider which use structured light, projecting the light in the form of parallel beams
- Scanning in photogrammetry using 24 x 36 camera positions.

The postproduction is different and does not use the same software, in the case of hand-held scanners the agency uses Artec Studio to achieve alignments and merging parts of the model in photogrammetry, the software used is Capturing Reality (alignments and reconstruction).

The other software used, common to both methods of capture are:

- Geomagic Wrap (cleaning, refilling and rebuilding)
- ZBrush (polygon cleaning and decimation)
- Photoshop and Max (color corrections and layer creation)
- XNormal and 3DS Max

Visit the RMN-GP Store

About the Author

FRANCE COLLECTIONS

https://sketchfab.com/francecollections/store

Share this article

Facebook Twitter LinkedIn

Seller Spotlight: RMN-GP Photo Agency

8 May 2018

The Photo Agency of the Réunion des Musées Nationaux – Grand Palais (RMN-GP) is the first institutional partner to join the Sketchfab Store – commercially licensing 3D scans of real artifacts from world renowned French museums.

An introduction to Réunion des Musées Nationaux – Grand Palais

Since 1946, the RMN-GP Photo Agency – a public institution under the authority of the French Ministry of Culture – has been officially responsible for promoting the collections of France’s national museums. For more than 60 years, the agency has carried out photography, each year capturing more than 20,000 new on-site images expanding the agency’s extensive media library, universally available at photo.rmn.fr.

Our website provides comprehensive access to entire collections. Over one million photographs of artworks from France’s national and regional museums are accessible online, including images of collections from the Louvre, the Musée d’Orsay, the Centre Pompidou, Chantilly’s Condé Museum and Palais de Beaux Arts of Lille.

The agency also has an international distribution network of exclusive agents in many foreign countries. Prestigious foreign collections, including London’s National Gallery, New York’s Metropolitan Museum of Art, Dresden’s Gemäldegalerie Alte Meister and Florence’s Uffizi Gallery, are also available.

From Leonardo da Vinci’s Mona Lisa to Monet’s Water Lilies, from Titian to Fernand Léger, from Oceania’s masks to Asian art, and including paintings, sculptures and drawings, the website allows visitors to tour the greatest collection of images of art.

How did RMN-GP Photo Agency begin working with 3D?

The agency began 3D scanning in 2013 and has produced models with more than 12 national museums including Le Louvre, Orsay Museum, Sèvres Limoges, the Picasso Museum, the Guimet Museum of Asian Art and more.

All the models the Agency produces are made available to institutions to enable their mediation and promotional activities.

How is Sketchfab used at RMN-Grand Palais?

All RMN3D models are available on Sketchfab and in turn are embedded back into the website of the Photographic Agency of the RMN-Grand Palais.

The Sketchfab platform allows us to host and publish 3D files online and the 3D player allows the display of models on all browsers and on any screen – from smartphones and tablets to virtual reality headsets.

Publishing on Sketchfab allows easy integration of the models on the museum websites, as well as on social networks without having to install a particular plug-in.

The museums can thus display 3D models of the works in their collections directly on their own websites, but also on the social networks or on scholarly websites, such as Panorama de l’Art.

Why did you decide to offer 3D models via the Sketchfab Store? How easy was it to use the Store (i.e. upload models, set a price, share)

The Sketchfab platform is perfectly adapted to our needs; we can put high quality, high resolution models online, which is very important for the scientific community of museums. Many other museums around the world have also chosen to share on Sketchfab and it has been obvious to us to offer a selection of models for direct purchase on the website. Selling from the website is very simple and we can easily adapt and modify the price or the selection of models available for sale.
Why is it important to allow for commercial re-use of cultural heritage 3D content?
How do you hope the 3D data will be re-used?

The presence of models from French national museums is very important because their display allows the promotion of these works of art. Their commercial use maybe in movies, video games or on the web and social networks contributes to knowledge and artistic education.

We acknowledge that the opportunities for re-use of 3D scanned cultural heritage models is in its early stages and are please to be leading the way.

How and why does RMN-GP currently use 3D content online and within exhibitions (e.g. Sites éternels, Gauguin l’alchimiste)?

In 2016, the agency made 3 models that were integrated into the scenography of the exhibition “Eternal sites” at the Grand Palais. Three emblematic works lent by the Louvre Museum were modeled and presented in the introduction of each sequence of the film “universal space”, thus linking immersive videos and real works presented to the public.

The “Gauguin l’alchimiste” exhibition at the Grand Palais in 2017 was also an opportunity to highlight the agency’s 3D models: more than 30 works by Paul Gauguin have been digitized in photogrammetry with a very high precision guaranteeing their geometric and colorimetric conformity: twenty-one carved and ceramic sculptures and eleven paintings, lent by the Musée d’Orsay, have been modeled. These 3D models have been included with the film’s broadcast along the exhibition and extend the catalog and other publications of the RMN-Grand Palais with augmented reality.

How do you see 3D changing the way museums and cultural organisations work in the future?

3D models are becoming increasingly important for sharing, dissemination and exhibition use. 3D models are particularly suitable for use on interactive displays in museums, where museum patrons can view all sides of the work and zoom in or out to view all the details. In the future, augmented reality will enhance book editions, postcards and other print media.

Another direct application concerns education, given the current capabilities of smartphones and tablets, the potential impact of augmented reality could be very important in the short term.

Preparing 3D data for re-use

Describe a typical workflow for how you create or capture 3D?

[Présentation vidéo des processus de numérisation 3D par RMN-GP : https://www.youtube.com/watch?v=QrGPxDT1has]

What tools or equipment do you use?

Two modes of acquisition are now used by the agency, these are:

- Scanning by 3D scanner, mainly used Artec Eva and Artec Spider which use structured light, projecting the light in the form of parallel beams
- Scanning in photogrammetry using 24 x 36 camera positions.

The postproduction is different and does not use the same software, in the case of hand-held scanners the agency uses Artec Studio to achieve alignments and merging parts of the model. In photogrammetry, the software used is Capturing Reality (alignments and reconstruction).

The other software used, common to both methods of capture are:

- Geomagic Wrap (cleaning, refilling and rebuilding)
- ZBrush (Polygon cleaning and decimation)
- Photoshop and Mari (color corrections and layer creation)
- XNormal and 3DS Max
The agency continues to lead the project France collections 3D, initiated in 2015 as part of a call for projects from the Fund for the Digital Society [Fonds pour la Société Numérique] and has accumulated nearly 2,000 models in high definition. The digitizations are carried out thanks to two technologies: with structured light scanners or based on a photogrammetry process developed by the agency. During 2021, the agency carried out 25 days of 3D capture. Scans made include the Venus de Milo, the Sleeping Hermaphrodite, the Lion of Monzón for the town hall of Monzón de Campos in Spain, the cross section of the Opera Garnier for a multimedia application developed by the Musée d’Orsay, as well as many works related to Napoleon I, in the dynamics of the bicentenary of his death (Austerlitz sword, bicorne hat, busts...).

(The photo show the Venus de Milo bring 3D scanned by photogrammetry)