

ROBOTICS & DISCRETE AUTOMATION

RobotStudio® AR Viewer

User Manual

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Introduction

1.1. What is RobotStudio® AR Viewer mobile app?

The RobotStudio® AR Viewer mobile app allows you to view the portfolio of ABB robots and robot solutions in augmented reality (AR). It also enables to view your own simulations in AR prepared in the ABB RobotStudio® desktop app.

The RobotStudio® AR Viewer app can be used to get an idea of the size and scale of a robot or robot cell, and how it can be deployed on a factory floor to fit around any existing production equipment.

1.2. How do I get RobotStudio® AR Viewer mobile app?

You can download the RobotStudio® AR Viewer mobile app for free from Apple App Store, Google Play Store and HUAWEI AppGallery (for Android users in China).

1.3. Which devices does RobotStudio® AR Viewer support?

You can install RobotStudio® AR Viewer on a mobile device that has iOS/iPadOS or Android operating system. To be able to view robots and robot solutions in augmented reality, your mobile device should support ARCore (for iOS/iPadOS) or ARKit (for Android) services. The table below presents more specific device requirements.

iOS, iPadOS

Minimum system version	13.0
Devices	iPhone, iPad
ARKit-enabled devices	https://www.apple.com/augmented-reality/

Android

Minimum system version	8.0 (Oreo)
Devices	phone, tablet
ARCore-enabled devices	https://developers.google.com/ar/discover/supported-devices#google_play_devices

Application overview



The RobotStudio® AR Viewer interface consists of five tabs: Robots, Solutions, My Solutions, Downloads and Side menu.

Image – Main page view



2.1. Robots

This tab contains the ABB robot portfolio with the accompanying information. You can download each robot model version and visualize it in augmented reality.

- Tap on the selected robot to access the information about it. You can find the robot versions displayed at the bottom of the selected robot. You can download a robot version by tapping on it. The green icon next to the robot version indicates that robot model has been successfully downloaded. Once the robot model is downloaded, tap on it to visualise it in augmented reality. Please refer to “Working with simulations” section in this user manual for instructions and tips for viewing simulations in augmented reality.
- You can cancel a download in progress by tapping a download progress icon  in the upper right corner and selecting “Cancel all” option.
- You can filter the robot portfolio list by using the funnel icon  in the upper right corner. Tap “Apply” to set the selected filters. The red dot next to the funnel icon indicates that the filter has been applied. You can clear out the applied filters by going back to the filter menu options and tapping the “Reset” button.

Tip: If you are going to be in a location that has no internet connectivity, download robot models in advance, so they will be available offline.

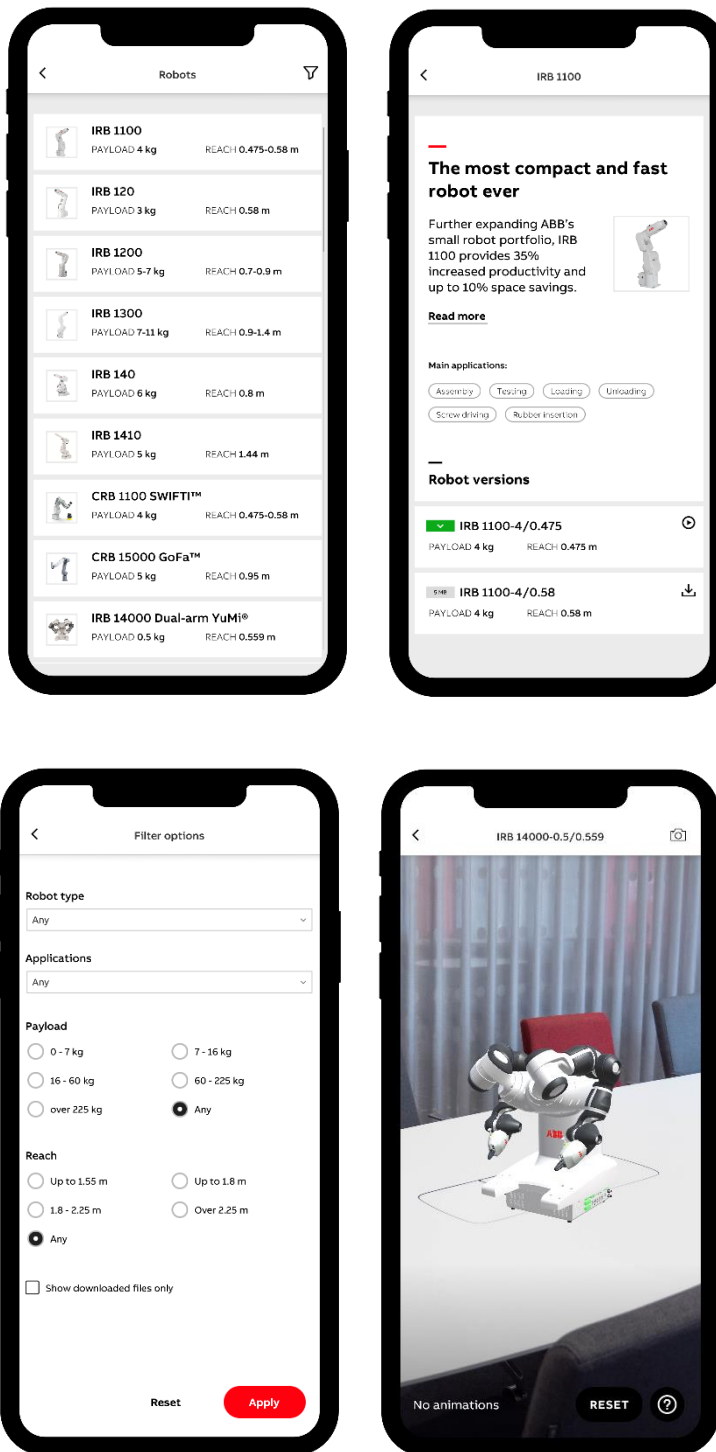
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Image 1 – Robot portfolio page

Image 2 – Robot details page



Image 3 – Robots filtering options

Image 4 – Robot visualization in augmented reality



2.2. Solutions

This tab contains the ABB robot solutions portfolio with the accompanying information. You can download each robot solution and visualize it in augmented reality.

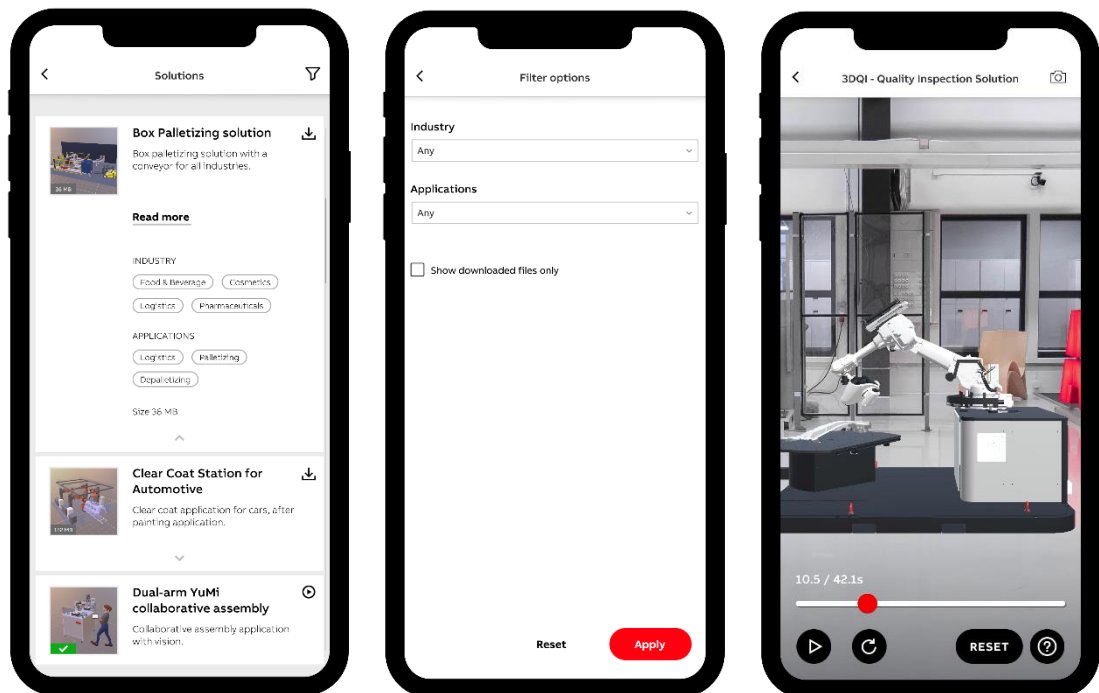
- Tap on the selected robot solution to download it. The green icon on the robot solution preview photo indicates that the robot solution has been successfully downloaded. Once the robot solution is downloaded, tap on it to visualise it in augmented reality. Please refer to “Working with simulations” section in this user manual for instructions and tips for viewing simulations in augmented reality.
- You can cancel a download in progress by tapping a download progress icon  in the upper right corner and selecting “Cancel all” option.
- You can filter the robot solutions portfolio list by using the funnel icon  in the upper right corner. Tap “Apply” to set the selected filters. The red dot next to the funnel icon indicates that the filter has been applied. You can clear out the applied filters by going back to the filter menu options and tapping the “Reset” button.

Tip: If you are going to be in a location that has no internet connectivity, download robot solutions in advance, so they will be available offline.

Image 1 – Robot solutions portfolio page

Image 2 – Robot solutions filtering options

Image 3 – Robot solution visualization in augmented reality



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2.3. My Solutions

This tab contains the list of simulations imported by you. You can import a simulation prepared in the ABB RobotStudio® desktop app and saved in GLB file format. Please refer to “Exporting stations and simulations as GLB files” section in this user manual for the instructions how to export a simulation as GLB file using the ABB RobotStudio® desktop app. Once exported, transfer your simulation in GLB file format to your mobile device to be able to view it in augmented reality using RobotStudio® AR Viewer mobile app.


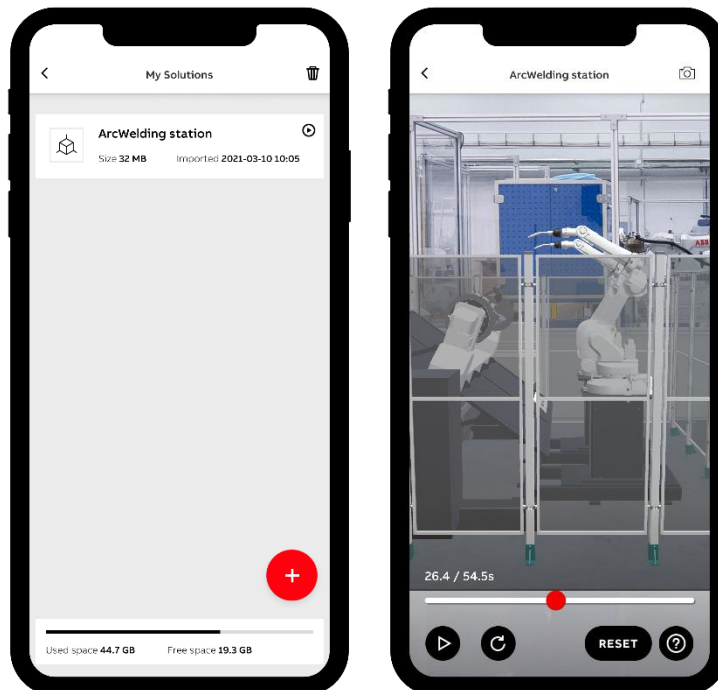

To view your own simulation in the app, tap on the plus red button **+** to import a new simulation from a person cloud. Once the simulation is imported, tap on it in order to display it in augmented reality. You can delete the imported simulations using the bin icon  in the upper right corner.

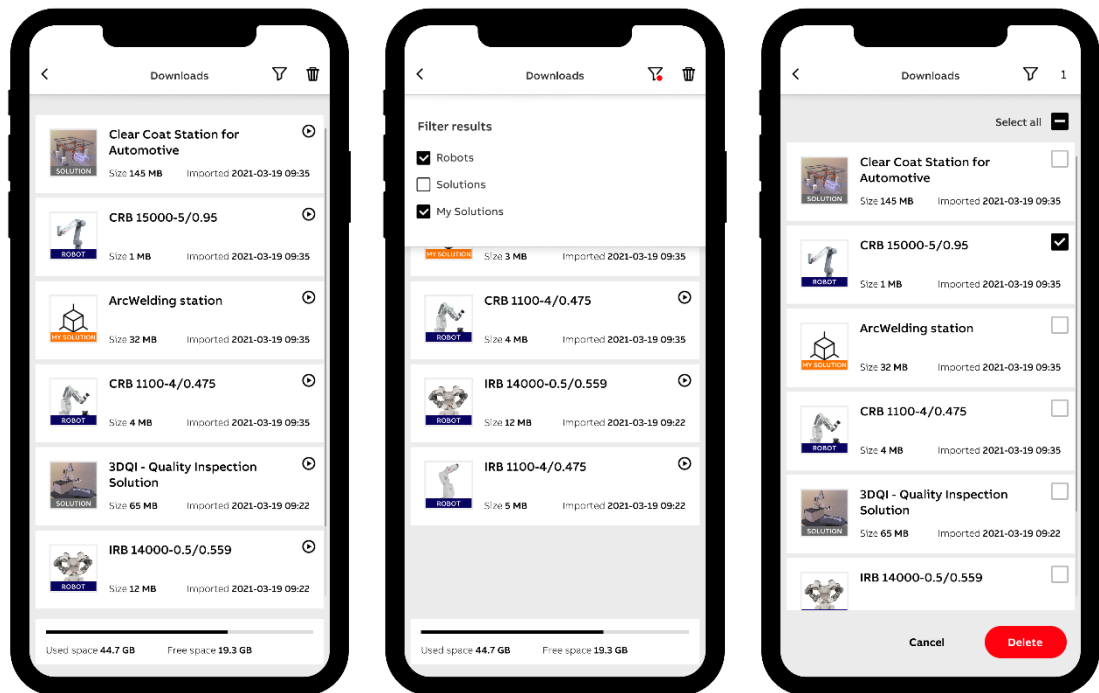
Image 1 – Import a new simulation view

Image 2 – Personal simulation visualization in augmented reality



2.4. Downloads

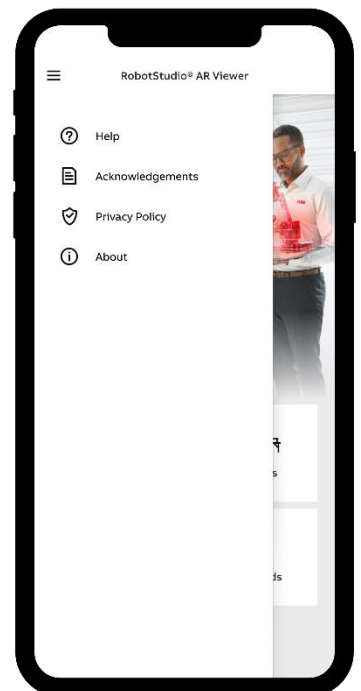
The Downloads tab contains the robots and robot solutions that you either downloaded from the app or imported to the app by yourself. Also, the files which download was cancelled or failed, will also be displayed in this section with the respective information tag. You can delete the files in the Downloads section one by one, by category using the filters option, or all at once using the bin icon  in the upper right corner.

*Image 1 – Downloads view**Image 2 – Downloaded files filtering options**Image 3 - Deleting downloaded files*

2.5. Side menu

The Side menu tab consists of four sections: Help, Acknowledgements, Privacy Policy and About. You can access the Side menu tab in the upper left corner.

- Help section contains the link to this user manual and a link to a forum where you can raise technical questions regarding the app.
- Acknowledgements section includes acknowledgments for the third parties whose software has been used in RobotStudio® AR Viewer app.
- Privacy Policy section specifies what personal data is collected by the app, along with information how the data is processed and for what purposes.
- About section shows the version of the app and specifies the contacts to raise business related questions.

Image – Side menu view

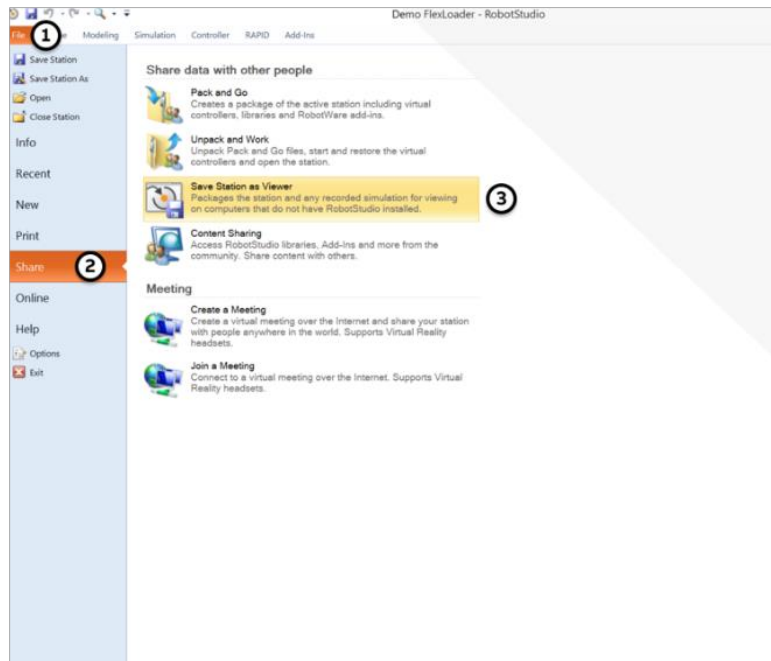
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Exporting stations and simulations as GLB files

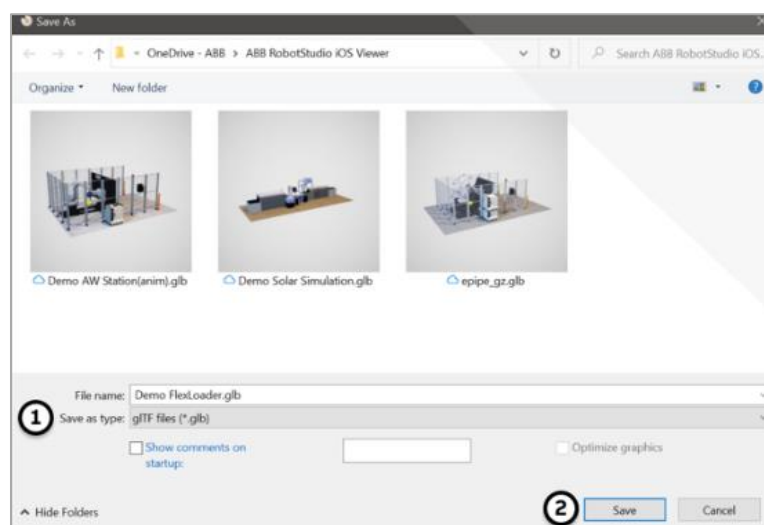
3.1. How to export a station as GLB file

To export a station designed in the ABB RobotStudio® desktop app, use “Save Station as Viewer” feature.

- Open or create a station, add graphic components.
- Click “File” tab (1), select “Share” (2) and then “Save Station as Viewer” button (3).



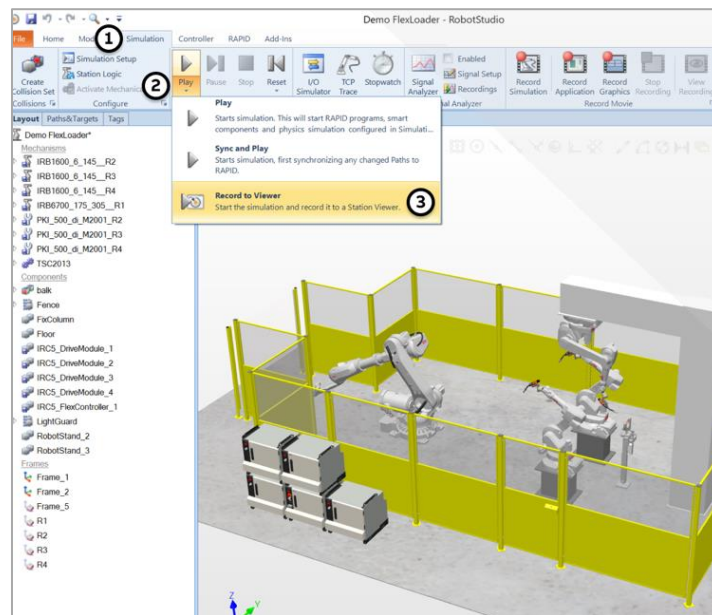
- In “Save As” dialog set “Save as type” option (1) to “glTF files (*.glb)”. Confirm by clicking “Save” button (2).



3.2. How to export a simulation as GLB file

To export a simulation (with animations) designed in the ABB RobotStudio® desktop app, use “Record to Viewer” feature.

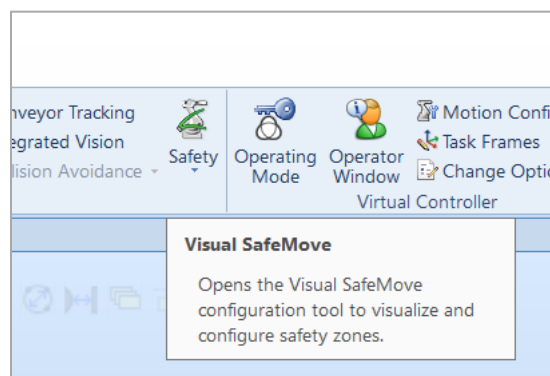
- Open or create a station with a virtual controller, and program a path.
- Click on “Simulation” tab (1) and click down arrow in Play button (2). Select “Record to Viewer” option from the drop-down menu (3).



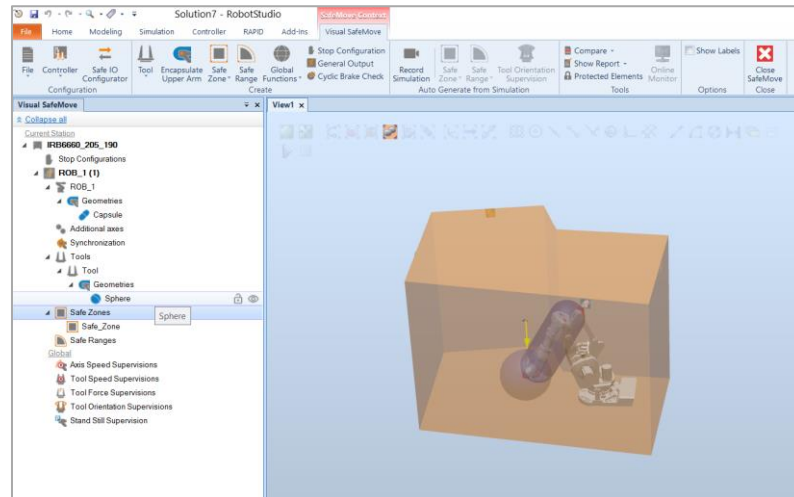
- After playing a simulation, in “Save As” dialog set “Save as type” option (1) to “glTF files (*.glb)”. Confirm by clicking “Save” button (2).

3.3. How to export a simulation as GLB file including SafeMove geometries

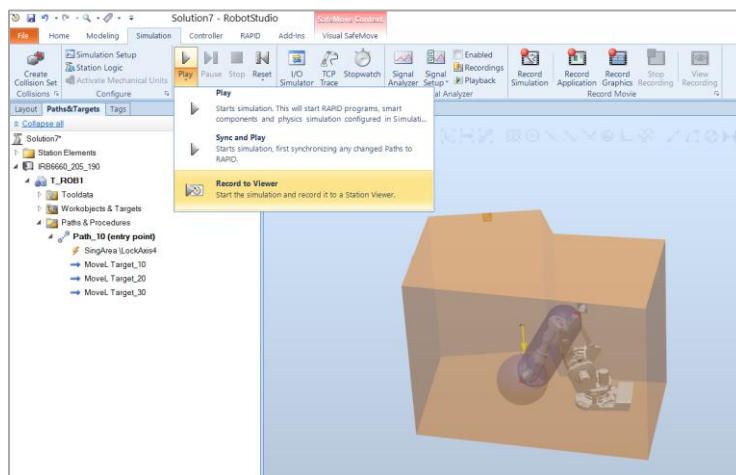
- Open or create a station with virtual controller and SafeMove 2 option.
- Click on “Controller” tab and click “Safety” button to open “Visual SafeMove” tab.



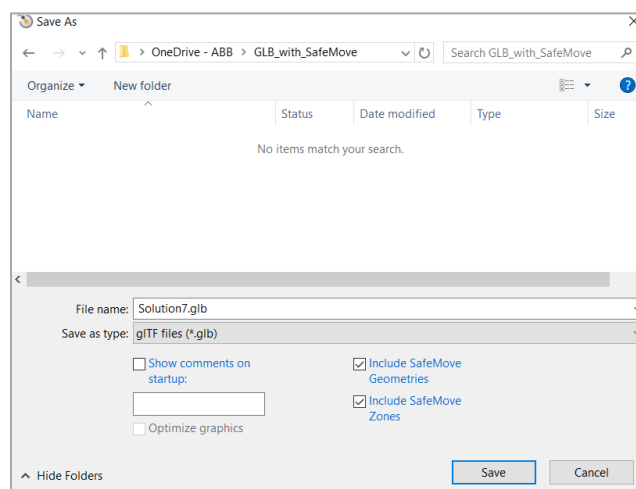
- Configure the safety volumes.



- Keeping the “Visual SafeMove” tab open, go to “Simulation” tab and click down arrow in Play button. Select “Record to Viewer” option from the drop down menu.



- After playing a simulation, in “Save As” dialog set “Save as type” option (1) to “glTF files (*.glb)”.
- Check the options “Include SafeMove Geometries” and “Include SafeMove Zones”. Confirm by clicking “Save” button (2).



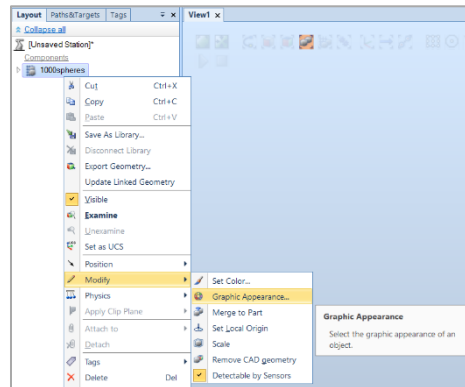
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3.4. Tip: Optimize your GLB file

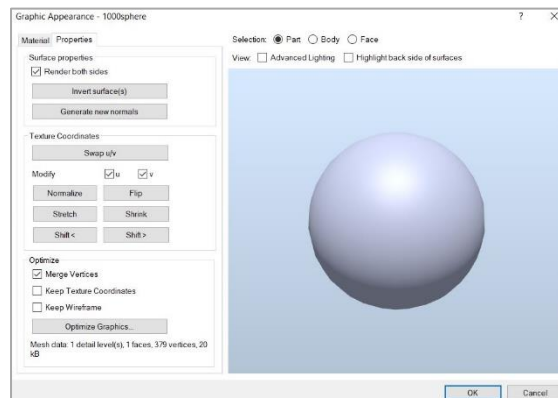
Optimize your GLB file, so it imports faster and displays smoother in the app. Optimization could be done by reducing 3D graphics (number of triangles), reducing textures, shortening cycle time, and removing invisible graphic components.

Optimization should be done in the RobotStudio desktop app before exporting file in GLB.

- In “Home” tab, right click on a graphic component object of the station layout and click “Modify” and “Graphic Appearance”.



- In the “Graphic Appearance” window, click “Properties” and “Optimize Graphics”. The number of faces, vertices, and the size should reduce.



- This operation can be repeated with all graphic components of the station.

Working with simulations

4.1. How to visualize a simulation in augmented reality

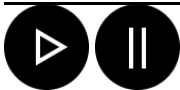



Steps to view a simulation:

1. Move your phone and point toward a flat surface, e.g. the floor.
2. When the surface gets detected, a red circle will indicate a place where a simulation will be placed.
3. Tap the screen to place the simulation loader.
4. After the simulation gets loaded, it will be displayed in the selected spot.

Note: A surface might not be recognized if it does not have any texture (e.g. white wall) or if it is transparent (e.g. glass). Also, excessive motions (e.g. moving the camera too fast or shaking), too dark or too bright environment might hinder accurate surface detection.

4.2. Simulation display options

After loading a simulation, the additional buttons are displayed at the bottom of the screen.

Button	What it means	What it does
	Play/Pause animation	Allows to play/pause animation in a simulation
	Reset animation	Allows to reset animation to the initial state
	Available touch gestures	Shows the available touch gestures to interact with a simulation. You can move, resize, rotate and lift a simulation
	Reset a simulation to the initial position	Allows to restore a simulation original position, rotation and zoom level

Note: The buttons to control animations are displayed only when the loaded simulation contains the animation. The “Reset” button appears only after you changed simulation position or size.

Tip: Tap in centre of the screen to hide the top bar and the buttons at the bottom. Tap again to bring back the top bar and the buttons at the bottom.

4.3. Simulation control gestures

Below are the available touch gestures:

Gesture name	How to perform a gesture	What it does
Move	Slide with one finger horizontally	Move sideways
Lift	Slide with two fingers vertically	Lift up and down
Resize	Spread two fingers apart Pinch two fingers together	Zoom in Zoom out
Rotate	Rotate with two fingers	Rotate in the direction you move your fingers

When you are resizing a simulation, a notification will appear on the screen showing what percent scale the simulation is. The 100 percent scale indicates true size.

Note: You cannot use more than one gesture at a time.

Taking photos and recording videos



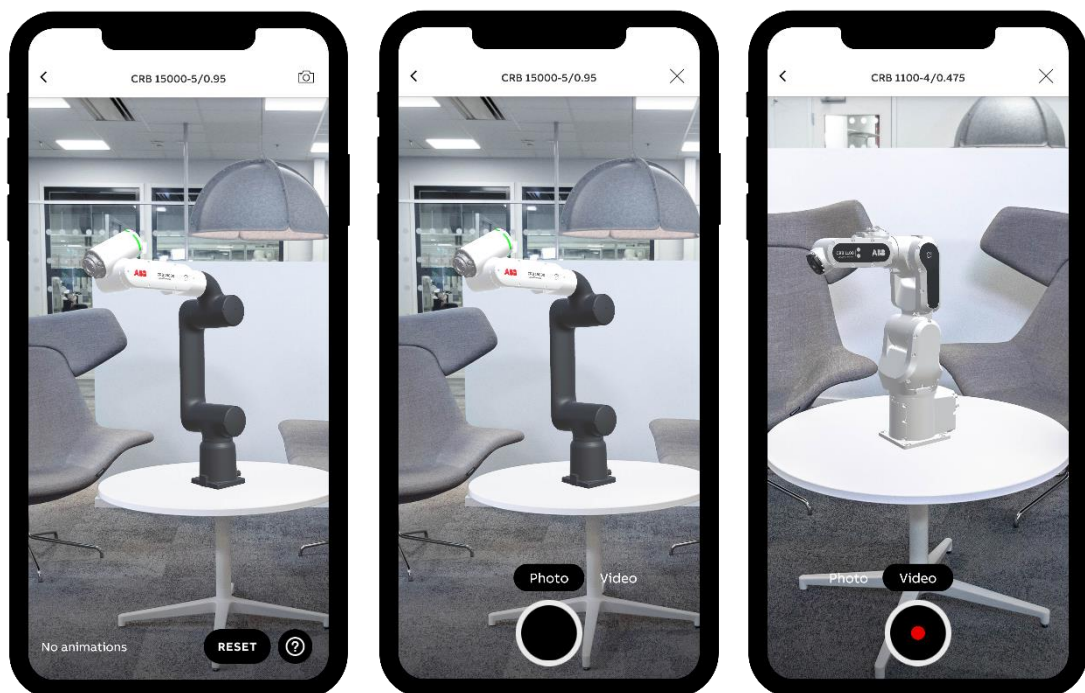
The app allows to take photos and record videos of the loaded simulation. Tap camera button  in upper right corner to switch to camera mode. Tap the close button  in the upper right corner to close camera mode.

Image 1: Viewer with camera button

Image 2: Camera mode/Photo mode

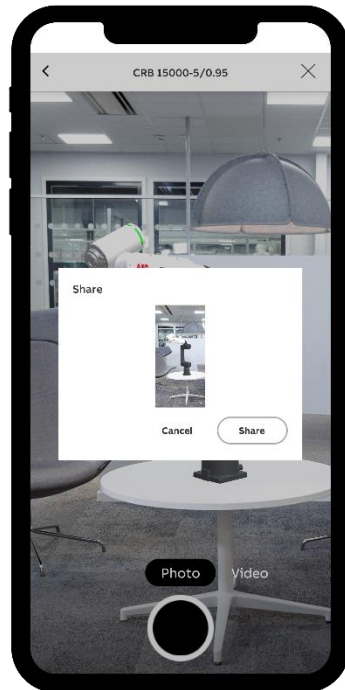
Image 2: Camera mode/Video mode



Taking photos: In camera mode tap the “Photo” button to take a photo of the current view. After the processing, a screenshot dialog is displayed with option to share the taken photo or to resign. Tap the “Share” button on dialog to display the system’s share panel. You can share the photo using social media app or save it to any cloud drive provider (e.g., OneDrive).

Recording videos: In camera mode tap the “Video” button to start recording. The video recorder captures the full screen. Tap on the screen in order to finish video recording. After processing, the video system share panel is displayed. You can share the video using social media app or save it to any cloud drive provider (e.g., OneDrive).

Image: Photo share dialog



Our commitment to privacy and security

We protect the privacy of users in our app using technical and organizational measures. We respect all data-protection laws, and our approach is detailed in the Privacy Policy.

RobotStudio® AR Viewer has been thoroughly tested and assessed for security vulnerabilities by security professionals in the company. The extensive security assessments of the RobotStudio® AR Viewer mobile application showed that the app delivers on our promise of protection and transparency: no suspicious behaviors or functions.

Some of the RobotStudio® AR Viewer application functionalities require an access to the Internet. It is your sole responsibility to ensure a secure connection between the RobotStudio® AR Viewer application and network.

What is GLB file extension and why we use it

RobotStudio® AR Viewer makes use of the widely available Graphics Library Transmission Format (glTF) to store model data. For 3D user experience, the app displays simulations stored in GLB file format. The GLB format works well for augmented reality because it supports both motion and animation.

The GLB and glTF formats were developed by Khronos Group in 2015. GL Transmission Format (glTF) is an open-source 3D file that supports static models, animation, and moving scenes. GLB is a binary version of glTF. Khronos promotes the GLB and glTF formats as the JPEG of 3D. Many of the most popular 3D modeling products used by engineering and marketing teams already support this format. You can read more details on their website: <https://www.khronos.org/glTF/>

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Acknowledgements

Component

AppCenter: <https://github.com/Microsoft/AppCenter-SDK-Unity-Extension>

License: MIT License

Visual Studio App Center SDK for Unity Editor Extensions

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Component

UnityGLTF: <https://github.com/KhronosGroup/UnityGLTF>

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Component

Json.Net: <https://github.com/jilleJr/Newtonsoft.Json-for-Unity>

License: The MIT License (MIT)

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Component

Unity3dAsyncAwaitUtil: <https://github.com/svermeulen/Unity3dAsyncAwaitUtil>

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Component

UnityNativeShare: <https://github.com/yasirkula/UnityNativeShare>

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Component

DiskUtils: <https://github.com/dkrprasetya/simple-disk-utils>

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Component

LeanTween: <https://github.com/dentedpixel/LeanTween>

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Revisions

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A	User manual created	2020-02-06
B	User manual updated to application version 1.1	2020-06-30
C	Extended section on how to export GLB file	2020-07-31
D	User manual updated to application version 2.0	2021-03-19
E	Supported devices links updated	2021-03-22