

MERCEDES-AMG MOTION PLATFORM

USER GUIDE



231-914-0005-EN2 | November 2024



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IMPORTANT SAFETY INSTRUCTIONS

- Read, keep, and follow these instructions.
- Heed all warnings:



This D-BOX haptic system may be harmful to women who are pregnant, persons with heart conditions, the elderly, or those with other preexisting medical conditions. All such persons should consult their physicians before using this D-BOX haptic system.



Use of this D-BOX haptic system is a risk to hands and feet. Do not put hands or feet underneath the seat or near the haptic system. This may lead to serious injury.



Use of hot liquids in the vicinity of this D-BOX haptic system should always be avoided to prevent spillage which could cause serious injuries to the user.



Do not use this device near water.

- Only clean the device with a dry cloth.



- Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
- Protect all the cables (USB, network, power, etc.) from being walked on or pinched, particularly at the ends.
- Use only attachments/accessories specified by the manufacturer.



Use of this D-BOX haptic system is not recommended for children under the age of ten years old without adult supervision. Owners and/or users of this D-BOX haptic system should consult and comply with the user guide enclosed.



Unplug this device during electrical storms or when unused for long periods of time.



Do not install near any heat sources such as radiators, heat registers, stoves or any other appliances (including amplifiers).



Refer all servicing to qualified personnel. Servicing is required when the device has been damaged in any way. For example: if liquid has been spilled or objects have fallen onto it, if it has been exposed to rain or moisture, if it does not operate normally or, it has been dropped.

Owners and/or users of this D-BOX haptic system are responsible for the dissemination of this information to all such persons named herein. Each owner and/or user of this D-BOX haptic system agrees to evaluate and bear all risks associated with the use of this D-BOX haptic system for themselves and for any subsequent users of this D-BOX haptic system and any subsequent users of this D-BOX haptic system shall be deemed to be using this D-BOX haptic system under the direct supervision of such owner/user and such owner/user will be deemed to have communicated this advisory to all person described herein.

D-BOX Technologies Inc. is in no way responsible for any damages of any kind arising from the use of this D-BOX haptic system and the owners and/or users of this D-BOX haptic system hereby agree not to hold D-BOX Technologies Inc. responsible for any and all damages of any kind arising from the use of this D-BOX haptic system including, but not limited to direct or indirect, punitive, incidental, special or consequential damages arising out of or in any way connected with the use of this D-BOX haptic system.

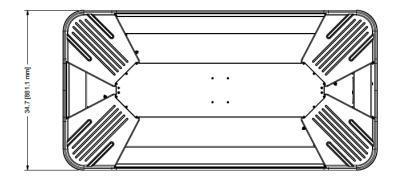


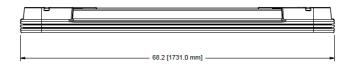
1. SPECIFICATIONS



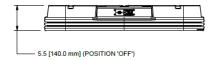
TECHNICAL SP	PECIFICATIONS
POWER REQUIREMENTS (MAX.)	120V, 50/60 Hz, 8A 230V, 50/60 Hz, 4.2A
PC CONNECTION	USB 2.0 or higher
OPERATING SYSTEM	Windows 10 64-bit (version 1809) or later
HAPTIC SYSTEM	4 x G5 haptic actuators (3DoF) mounted horizontally
MAXIMUM STROKE	1.5 inch / 38.1 mm
MAXIMUM LIFTING CAPACITY	700 lbs (317.5 kg)
MAX ANGULAR DISPLACEMENT	Roll: +/- 4.5° Pitch: +/- 1.5°
MAXIMUM VELOCITY	100 mm/s
MAXIMUM ACCELERATION	+/-1g-force
FREQUENCY RANGE	0-100 Hz
OPERATING TEMPERATURE RANGE	0°C – 40°C (32°F – 104°F)
OPERATION HYGROMETRY	10 to 85% (Free from condensing)
DIMENSIONS	68.2" (L) x 34.7" (W) x 5.5" (H) 1731mm (L) x 881mm (W) x 140mm (H)
WEIGHT	163 lbs (74kg)

Dimensions:











2. HARDWARE COMPONENTS





- Motion platform (factory assembled).
- 2 4x Mounting brackets for bottom support.
- 3 4x Mounting brackets for sofa and furniture mounting.
- **4 Ax** Mounting brackets for round or square tube-based sim racing chassis.
- 5 4x Mounting brackets for sim racing chassis (aluminum extrusions) with screws.
- 6 2x Hex key wrenches (5mm & 6mm).
- 7 Power cable & yellow plug lock insert.
- ⁸ USB-A to USB-B cable & USB extension.



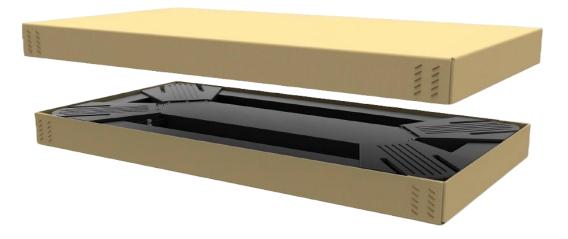
3. UNBOXING

Proceed with the unboxing by following the steps below, ensuring that at least two (2) people are present during any lifting operations for safety. This will help prevent injuries and ensure that the platform is handled properly:

STEP 1: Carefully cut the straps using scissors to open the package. Ensure you take your time to avoid damaging any contents inside:



STEP 2: Remove the box cover:





STEP 3: Remove the accessory box from the packaging. Once it's out, check to ensure that all items listed in section 2 are included:



STEP 4: Remove all the additional packaging and lift the platform:





4.ASSEMBLY

The following sections describe how to secure your simulator (2 types) or sofa on your motion platform. Properly securing your equipment is essential for safety and optimal performance. Please follow the outlined steps carefully to ensure everything is in place.

4.1 Sim Racing Rig Setup (Aluminum Profiles)

STEP 1: Place the platform on a flat surface, ensuring that all four (4) legs are level for optimal operation. This alignment is crucial for proper functionality and to prevent any potential wear on the components.

Make sure that the front panel (Power and USB) is oriented to the desired position, as you'll need to connect the platform to your PC (via USB) and to a power outlet. See Section 5 for the wiring diagram.



STEP 2: Proceed with the bracket assembly as shown below. Please do not tighten the screws at this time; this will allow for adjustments later in the installation process:





STEP 3: Position your simulator on top of the platform, ensuring it is centered. Once it is correctly placed, slide the bracket assembly into the T-channels as shown below:



STEP 4: Secure all four (4) brackets to the aluminum side profiles using screws and T-nuts (**not included**). Ensure that everything is tight and stable:





4.2 Sim Racing Rig Setup (Round & Square Tubing)

STEP 1: Place the platform on a flat surface, ensuring that all four (4) legs are level for optimal operation. This alignment is crucial for proper functionality and to prevent any potential wear on the components.

Make sure that the front panel (Power and USB) is oriented to the desired position, as you'll need to connect the platform to your PC (via USB) and to a power outlet. See Section 5 for the wiring diagram.



STEP 2: Proceed with the bracket assembly as shown below. Please do not tighten the screws at this time; this will allow for adjustments later in the installation process:

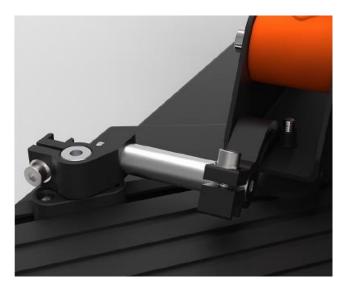




STEP 3: Position your simulator on top of the platform, ensuring it is centered. Once it is correctly placed, slide the bracket assembly into the T-channels as shown below:



STEP 4: Secure all four (4) brackets to the rig. Ensure that everything is tight and stable:





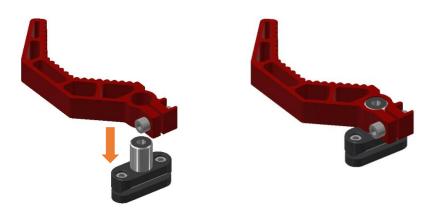
4.3 Home Cinema Setup (Sofa)

STEP 1: Place the platform on a flat surface, ensuring that all four (4) legs are level for optimal operation. This alignment is crucial for proper functionality and to prevent any potential wear on the components.

Make sure that the front panel (Power and USB) is oriented to the desired position, as you'll need to connect the platform to your PC (via USB) and to a power outlet. See Section 5 for the wiring diagram.



STEP 2: Proceed with the bracket assembly as shown below. Please do not tighten the screws at this time; this will allow for adjustments later in the installation process:





STEP 3: Position your sofa on top of the platform, ensuring it is centered. Once it is correctly placed, slide the bracket assembly into the T-channels as shown below:



STEP 4: Secure all four (4) brackets to the sofa legs. Ensure that everything is tight and stable:





5. WIRING DIAGRAM



STEP 1: Connect the platform to the PC using the provided USB-A to USB-B cable. If needed, you can use the included USB extension to facilitate the connection.

Do not connect the platform through a USB hub. Direct connection to the PC is essential for optimal performance and functionality.

STEP 2: Slide the yellow IEC plug lock insert onto the power cable to secure it and prevent disconnection:



STEP 3: Connect the power cable to the platform and then to a power outlet. Ensure that the outlet is properly grounded and that the connection is secure:



6. CREATE YOUR D-BOX CONNECT ACCOUNT

Create your D-BOX Connect account. This is mandatory for installing and updating haptic codes for D-BOX coded games and accessing haptic codes for movies. Ensure that you complete this step to fully utilize the features of your motion platform.

Here is the link to access the D-BOX Connect website: https://connect.d-box.com/

Follow the on-screen instructions to complete the setup process.

7. SOFTWARE INSTALLATION (MOTION CORE)

The D-BOX Motion Core Includes the system's driver in addition to a complete software suite including the following software and utilities:

- D-BOX Control Panel
- D-BOX Game Center
- D-BOX Adaptive Gaming Configurator
- D-BOX HaptiSync app
- D-BOX System Monitor
- D-BOX Stimuli Presenter

7.1 Minimum System Requirements (PC)

Here are the minimum requirements to run the D-BOX software on your PC:

Microsoft Windows: Windows 10 x64 (1809 or later) or Windows 11
RAM: 512 MB of free RAM for D-BOX Coded Gaming, plus an additional 1 GB if using D-BOX Coded Video
Storage: 850 MB of free space on the drive for D-BOX Coded Gaming, and an additional 23 GB for the D-BOX Coded Video haptic library
USB Port: USB 2.0 Full Speed (or faster)



7.2 D-BOX Motion Core Installation and PC Activation

- STEP 1: Download, extract and install the D-BOX Motion Core software available at: https://www.d-box.com/en/software-downloads
- STEP 2: From the Windows Start menu, open the D-BOX Game Center. When prompted, log in to your D-BOX Connect account:



Click **OK** to link your device to your account:

D-BOX Coded Gaming	D-BOX Coded Video	(Beta)	Adaptive Gaming (Be	ta) 👩 Gl	ahal Settinge	Log In	Help			
emium haptic experiences for D-		-				not in the list below.				
Name	Status		tartup Installed	Available	Туре	Comment				
Aerofly FS2	Not Detected		Not Installed	2.1.10919	Flight	Up to 152 mm (6")				
American Truck Sim	Not Detected		Not Installed	1.1.10941	Racing	Up to 152 mm (6")				
ARCA Sim Racing	Not Detected		Not Installed	1.3.5341	Racing	Up to 35 mm (1.5")				
Assassin's Creed Valhalla	Not Detected	D-BOX G								
🖌 Assetto Corsa	Not Detected									
 Assetto Corsa Assetto Corsa Competizione 	Not Detected Not Detected	2	Your computer is not							
		?	Your computer is not Information must be your account. Do you	retrieved from						
Assetto Corsa Competizione	Not Detected	?	Information must be	retrieved from						
Assetto Corsa Competizione Automobilista	Not Detected Not Detected	?	Information must be	retrieved from						
Assetto Corsa Competizione Automobilista Automobilista 2	Not Detected Not Detected Not Detected	?	Information must be	retrieved from	n your compu	ter to link it to				
Assetto Corsa Competizione Automobilista Automobilista 2 BeamNG	Not Detected Not Detected Not Detected Not Detected	2	Information must be your account. Do you	retrieved from accept?	n your compu OK	Cancel				
Assetto Corsa Competizione Automobilista Automobilista 2 BeamNG Bomber Crew	Not Detected Not Detected Not Detected Not Detected Not Detected	?	Information must be your account. Do you nor installed	1.0. 11006	n your compu OK Strategy	Cancel				
Assetto Corsa Competizione Automobilista Automobilista 2 BeamNG Bomber Crew City Car Driving	Not Detected Not Detected Not Detected Not Detected Not Detected Not Detected	2	Information must be your account. Do you nor installed Not Installed	retrieved from accept?	Nyour compu OK Strategy Racing	Cancel Up to 102 mm (6")				
Assetto Corsa Competizione Automobilista Automobilista 2 BeamNG Bomber Crew City Car Driving Crysis WARHEAD	Not Detected Not Detected Not Detected Not Detected Not Detected Not Detected Not Detected	2	Information must be your account. Do you not installed Not installed Not Installed	retrieved from accept? 1.0.11005 1.2.5274 1.0.11026	OK OK Strategy Racing Shooter	Cancel Up to 152 mm (6 ') Up to 152 mm (6 '') Up to 35 mm (7.5'')				

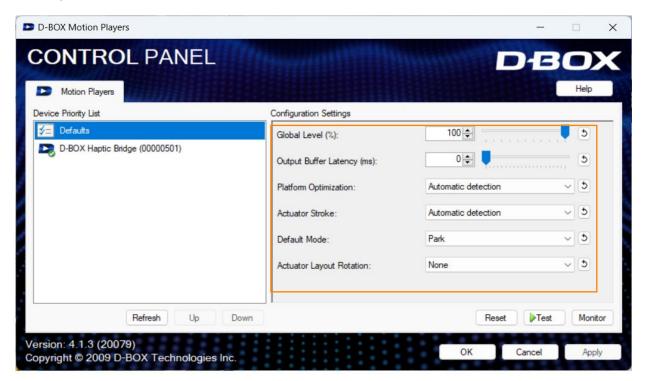


IMPORTANT: Please note that a subscription is not required to download and install haptic codes for games. They can be manually downloaded and installed from the Library in the Play section.

Your PC is now linked to your D-BOX Connect account.

7.3 D-BOX Control Panel

The D-BOX Control Panel allows you to manage the settings and features related to your motion platform. These settings will apply to all HaptiSync Modes, including all games and movies/series:



<u>Global Lever (%):</u> Adjusts the overall intensity of the motion experience. You can lower this value if you find it too intense. The optimal setting is 100%.

Output Buffer Latency: For optimal performance, set the slider to zero. If you notice unexpected "ticks" caused by motion discontinuity, you may need to increase the Output Buffer Latency depending on your computer's performance.

Platform Optimization: Leave this setting at "Automatic Detection".



Actuator Stroke: Leave this setting at "Automatic Detection".

Default Mode: Define the idle position after 1 minute of inactivity.

- **Park:** The haptic actuators are not powered, and they will go to the lower position (minimum electrical consumption).
- Hold Center: The haptic actuators are powered, and they will go to the middle position.
- Hold Low: The haptic actuators are powered, and they and they will go to the lower position.

None 90 Degrees Left 180 Degrees FRONT FRONT FRONT FRONT O Degrees Right BO Degrees Right FRONT Fro

<u>Actuator Layout Rotation</u>: This setting allows you to quickly modify the orientation of your motion platform. Here are the available settings:

The "None" and "180 Degrees" settings can be selected for a sim racing rig setup. For a sofa, you can choose the "90 Degrees Right" or "90 Degrees Left" settings.



7.4 D-BOX Game Center

The D-BOX Game Center is an application used to install haptic codes for D-BOX compatible games, as well as to manage and edit game profiles.

There are four (4) HaptiSync modes available:

D-BOX Coded Gaming	Premium haptic experiences for D-BOX coded apps, simulators & games. Use the Adaptive Gaming mode if your title is not in the list. Visit this page for detailed instructions: <u>https://support.d-box.com/en/knowledge/hsc-dbox-coded-gaming</u>
D-BOX Coded Video	Premium haptic experiences for D-BOX coded movies and TV shows, using audio synchronization. Visit this page for detailed instructions: <u>https://support.d-box.com/en/knowledge/hsc-dbox-coded-video</u>
Adaptive Gaming	Haptic experiences based on real-time events from game controller or keyboard. Visit this page for detailed instructions on how to use this feature: <u>https://support.d-box.com/en/knowledge/hsc-adaptive-gaming</u>
Adaptive Audio	Automated haptic experiences for any movie, music, TV show and games using audio processing: https://support.d-box.com/en/knowledge/hsc-adaptive-audio

Select your haptic experience from the D-BOX HaptiSync Mode dropdown menu:

D-BOX Game Center - OFFLI	NE mode						
GAME CENT	ER Ha	aptiSync Mode:		ded Gaming ded Gaming	Y.	DE	30>
😒 D-BOX Coded Gaming 📔	D-BOX Coded Video	Adaptive Gaming	D-BOX Coo	ded Video	Global Set	Log Out	Help
Premium haptic experiences for	D-BOX coded apps, simulators	s & games. Use the ac			title is not in the	ist below.	
Name	Status	Startup	Installed	Available	Туре	Comment	
Forza Horizon 5	Ready	Special Instructions	1.1.11111	1.1.11111	Racing	Up to 152 mm (6")	
7 Forza Motorsport 7	Ready	Special Instructions	2.1.10919	2.1.10919	Racing	Up to 152 mm (6")	
💋 Gran Turismo 7	Ready	Special Instructions	1.0.11202	1.0.11202	Racing	Up to 152 mm (6")	
ACTC	Game Not Found		1.1.5274	1.1.5274	Racing	Up to 35 mm (1.5")	
Aerofly FS2	Game Not Found		2.1.10919	2.1.10919	Flight	Up to 152 mm (6")	
Assassin's Creed Valhalla	Game Not Found	Special Instructions	1.1.11057	1.2.11128	Adventure	Up to 152 mm (6")	
Assetto Corsa	Game Not Found	Special Instructions	4 3 11124	4 3 11124	Racing	Up to 152 mm (6")	



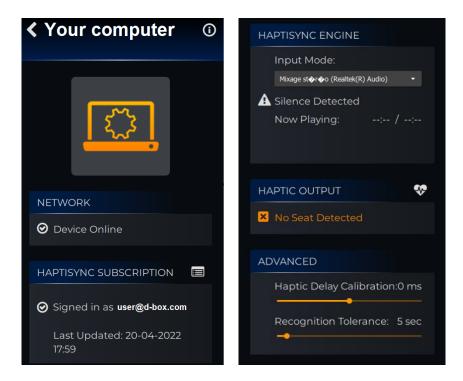
7.5 D-BOX Adaptive Gaming Configurator

This application allows you to build, modify and activate your Adaptive Gaming profiles. You can also share your favorite profiles with other D-BOX users:

D-BOX Adaptive Gaming Configurator									- 0	×
Haptic Output Enabled On Con	Elden F	Ring (action	ad	ventu	re, gar	nepad)				
Adaptive Profile Selector Search O Poead By DayLight (Third Person, Keyboard *	Generic Controllers MS Mouse KB Keyboard GC Gamepad Controller			0 mapping(s) 0 mapping(s)		Joystick Controllers No Joystick Controllers Detected.				
Reducting 2 (FPS, gamepad) Diablo IV (top-down RPG, gamepad)			13 mapping(s)		g(s)					
Poisney Speedstorm (arcade racing, gamep POOOM Eternal (fps, keyboard) Comparison (action adventure, gamepad)	Note	ment - Joystick			Note					
Relite Dangerous (Space, Gamepad) Rescape From Tarkov (FPS, Keyboard)		GC: AxisLeftY GC: AxisLeftX				Player Velocity		Intensity Variation		<u>e e</u>
Rall Guys (arcade, gamepad) Far Cry 5 (FPS, keyboard) Far Cry 6 (FPS, Keyboard)	Up-Down	Set Input ment - Joystick			Note					
RFor Honor (action, gamepad) Fortnite (battle royale, gamepad)		GC: AxisLeftY GC: AxisLeftX				Footsteps Ambience		Intensity		
RGTA V (action, gamepad) RHell Let Loose (FPS, Keyboard) Hogwarts Legacy (adventure, gamepad)	Up-Down	Set Input			Shield Up					
Cleague of Legends (top-down, keyboard) Cleague of Legends (top-down, keyboard) Cleague of P (Action Adventure, Gamepad)	Trigger	GC: LeftShoulder				Aim Sights		Intensity		
Monster Hunter Rise Sunbreak (action adv One Finger Death Punch (2d, mouse)	🔿 🗹 Action				Light Attack (1					
Create Profile Import Profile	Trigger Add Haptic	GC: RightShoulder Effect in Profile	× Ad	d Group Se		Charging Attack	Copyrig	Intensity		eserved. v1.2.0.20122

7.6 D-BOX HaptiSync app

This application allows you to setup and control your D-BOX Coded Video and Adaptive Audio experiences using audio synchronization. Take note that a valid HaptiSync subscription is required for D-BOX Coded Video mode:





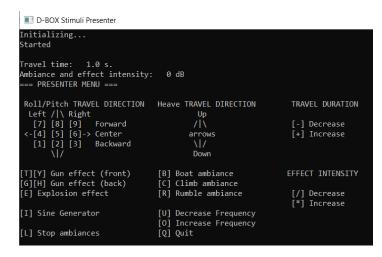
7.7 D-BOX System Monitor

This application displays live health and operational data for all connected haptic systems. This is useful to troubleshoot your motion platform:



7.8 D-BOX Stimuli Presenter

The D-BOX Stimuli Presenter is a keyboard-controlled application that enables you to send basic signals to the motion platform, making it useful for tests and demonstrations. **Please** ensure you are in D-BOX Coded Gaming mode when using the Stimuli Presenter.





8. MOTION PLATFORM OPERATION

Power on your motion platform using the power button. The platform will perform a homing sequence, moving all the way up, then down, and finally centering itself. This is normal behavior.

You are now ready to enjoy an immersive haptic experience!