

VR Game / Applications

VR Game

Name Track MASTER

Characteristics

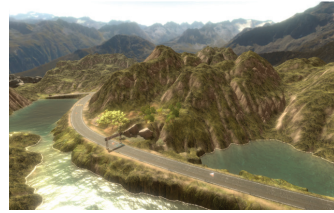
- ① Link cycle racing game to Synchro Bike interactive model
- ② Single / multiplayer (Maximum 8 players)
- ③ Various sites around the world as race maps
- ④ Real-time standings, timer, items, and race maps available
- ⑤ Manage your exercise and character data with a mobile app



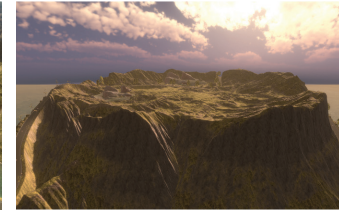
Acquire Items



Link to Bike, Mobile App



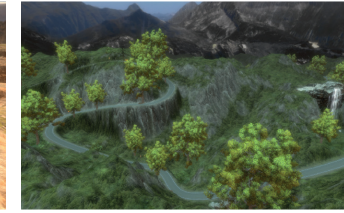
Gantiago, Ulsan, Korea



Sungsan Il-Chul Bong, Je-ju, Korea



Grand Canyon, United States



Zhangjiajie, China

Applications



Spinning and GX in Fitness Centers



VR Arcades and Theme Parks



Indoor Training for Athletes and Military Uses



Rehabilitation Center



VR CARVER. INC.

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Website



Product AD

Synchro Bike

Collaboration of VR and Sports



www.vrcarver.com / www.synchrobike.com / www.synchrobike.biz



SYNCHRO BIKE

About us

VR CARVER began with a goal to provide healthy and fun activities for teenagers exposed to provocative and violent games. We are now developing VR sports simulators not only for teenagers, but also for anyone who wants to enjoy extreme sports indoors safely.

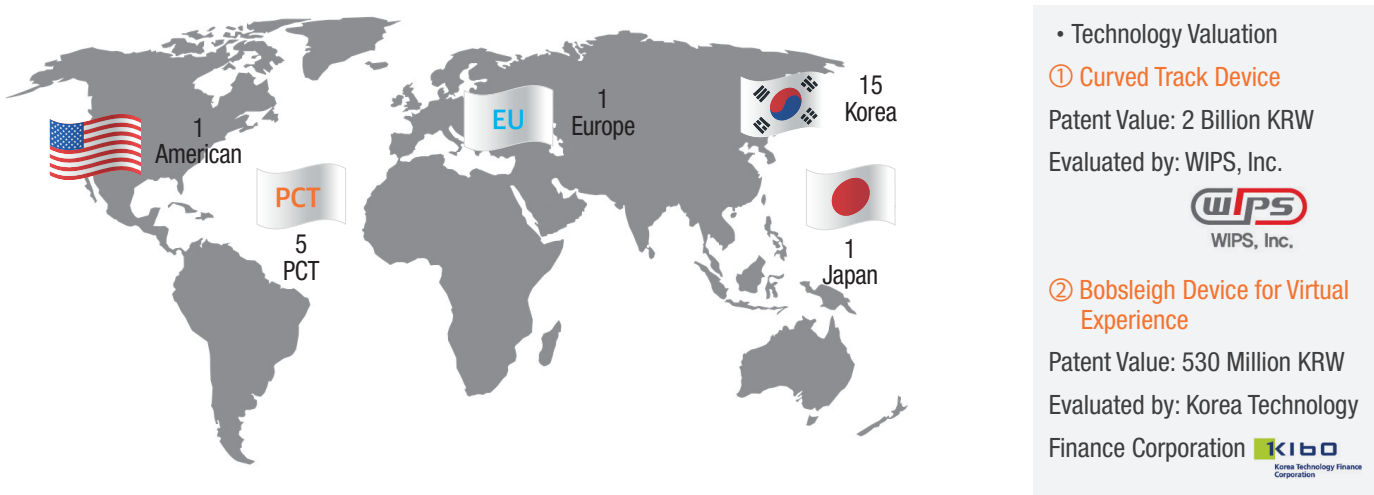
VR Carver is a company specialized in VR e-sports. Our proprietary Trackbelt-type and Rotating PLT-type modules provide lively slip-turn cornering experiences on curved tracks. Users can feel the sense of presence as if they were participating in real sports.

Since 2015, we have developed various VR simulators for sports such as cycling, bobsleighing, skiing, and lugeing. We are continuing R&D on our products for improvement. We continue to seek strategic business partnerships with domestic and international businesses.

Company Achievements

- **March 2015** Acquired US patent (Curved Track Simulation Device)
- **May 2017** Acquired Japanese patent (Curve Cornering Simulation Device Realizing Feeling of Sliding)
- **December 2017** Held a bobsleighing event with VISA in December 2017

Holding patents



Bike manufacturers

Impetus Corp, China : Fitness equipment manufacturer (35 years)

Website : <https://impetusfitness.com/>



Impetus
Connecting health and fitness to the future

Synchro Bike

Main Features



Consoles

High strength glass display



Seats

Wide, padded, and ergonomic seat design

Lower parts

A fixing stopper and a carrying handle

Specifications and Characteristics

Synchro Bike

Interactive model

Exercise and VR game together in a bike

Items	Specifications	
Power	AC 100-240V, 50~60 Hz	
Display	360° VR Video	
Interaction Control Device	Wired	
HMD	VIVE (Headset Type)	
Operation Function (MAX)	Speed Control Device	Electronic Control
	Rotation Angle (Yaw)	- 60° to 60°
	Front and Rear Angle (Pitch)	- 5° to 5°
	Right and Left Angle (Roll)	- 7° to 7°
Dimensions (L/W/H)	1,130 × 920 × 1,520 (mm)	
	Recommended Free Space	
Weight	Approx. 70kg	
	Linked Contents	
	VR Cycle Racing Game (Track MASTER)	

NON-Interactive model

Maximize sense of presence and exercise results with all directional tilting and 360° rotating bike

Items	Specifications	
Power	Batteries	
Display	360° VR Video	
Interaction Control Device	Wired	
HMD	Any Wireless HMD Model	
Operation Function (MAX)	Speed Control Device	Manual Gear Adjustment
	Rotation angle (Yaw)	360°
	Front and Rear Angle (Pitch)	- 5° to 5°
	Right and Left Angle (Roll)	- 7° to 7°
Dimensions (L/W/H)	1,130 × 920 × 1,520 (mm)	
	Recommended Free Space	
Weight	Approx. 70kg	
	Linked Contents	
	None	

Characteristics

Interactive Model

- ① As If Riding a Real Bike
 - The bike moves in all directions according to inputs by users
 - Emulates cornering by rotating the whole device 120°
- ② Biking Linked to Fun Games
 - Control game characters with pedal speed and tilting
 - Pitching angle, brake strength change according to the inclination in the game
 - Rolling and yawing implemented to match movement and cornering of in-game characters
- ③ Great for Exercise
 - Push the pedals to move in-game characters
 - Turning and rotating the device puts the whole body on an aerobic exercise

Non-Interactive Model

- ① Like Riding a Real Bike Indoors
 - The bike moves in all directions according to inputs by users
 - Realistic movement with free posture and point of view
- ② Even More Fun with Various Contents
 - Watch VR contents easily with a full 360° rotation device
 - Even non-VR contents available for users
- ③ Great for Exercise
 - Turning and rotating the device puts the whole body on an aerobic exercise