

INNOVATIVE MICROROBOTS FOR IMPROVED PATIENT CARE

PATHFINDER. NAVI

A NEXT GENERATION MICROROBOT SYSTEM
FOR PRECISE INTERVENTIONAL PROCEDURES



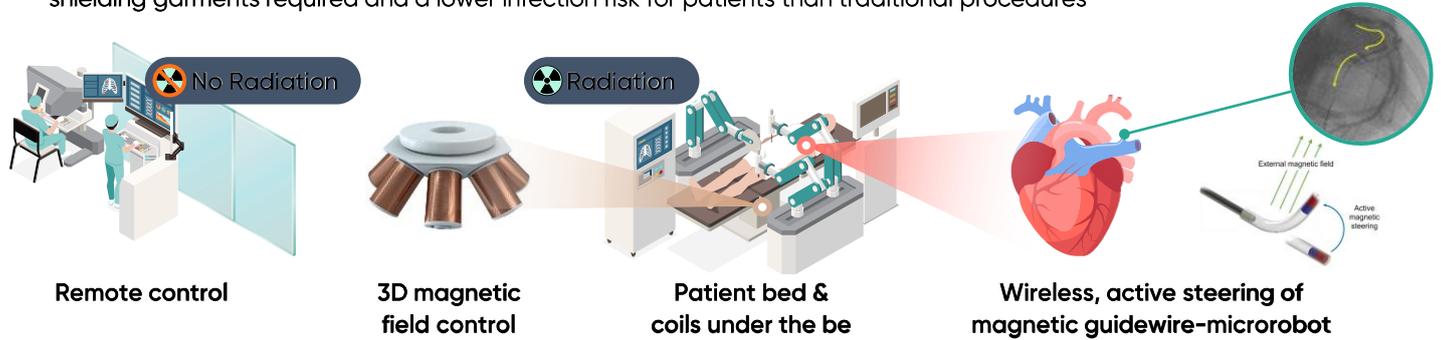
E-mail
sales@imsystem.kr

Homepage
<https://imsystem.kr>

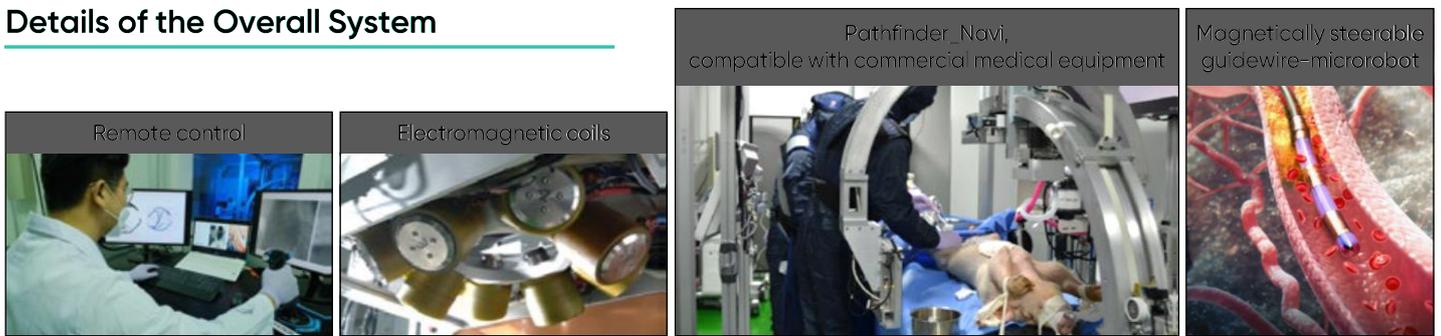
 **iMSYSTEM**
이머징시스템

PATHFINDER_NAVI

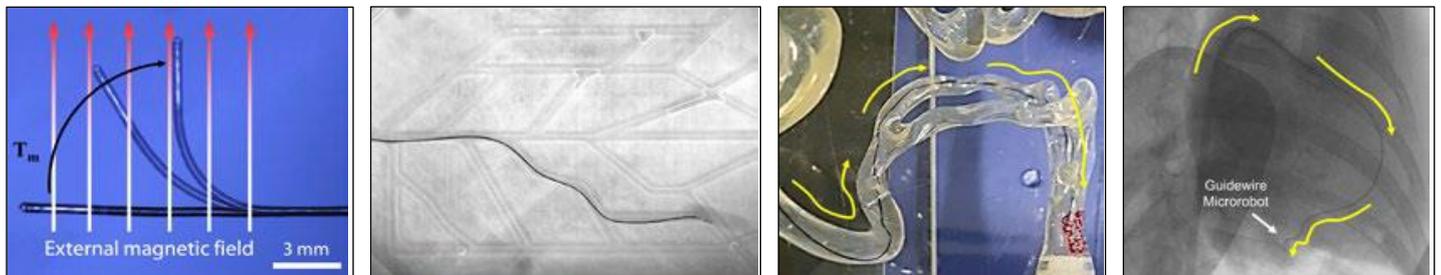
- An advanced medical microrobot system comprising a magnetic guidewire-microrobot and a remotely controllable magnetic actuation system compatible with patient bed for various interventional procedures
- Faster, safer and more precise control (steering & navigation) of guidewires inside complex vascular networks for quicker delivery and implementation of endovascular devices (e.g., stents)
- A less time-consuming treatment, higher operation success rates, less radiation exposure for medical crew, no heavy radiation shielding garments required and a lower infection risk for patients than traditional procedures



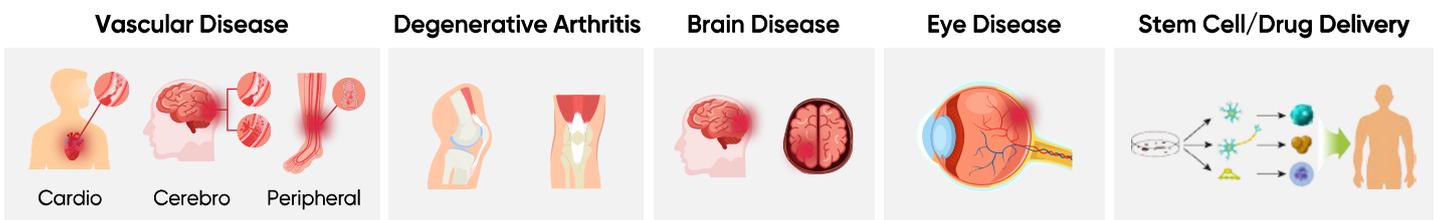
Details of the Overall System



Active Steering of the Guidewire-Microrobot under a 3D Magnetic Field



Applications (Various Interventional Procedures & Targeted Therapy)



- Future development of biomedical microrobot systems will cover a wide range of precision medicine for the treatment of various diseases

Our Partners



Research Publications (from our collaborators, incl. DGIST)

