

News Release Digest



Robot

Mechanical Engineering Research Laboratory Central Research Laboratory

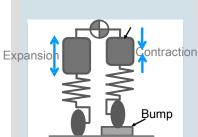
18th June 2010 Hitachi, Ltd. News release in Japanese http://www.hitachi.co.jp/New/cnews/month/2010/06/0618.html

Enhanced EMIEW 2

- Overcome bumps, discriminate human voice from noise -

18th June Nikkei, 19th June Mainichi

Overcome cables and bumps



Active suspension



Discriminate human voice from noise

14-channel microphone array



3D sound source differentiation

Hitachi's human symbiotic robot was given enhanced mobility and voice recognition features to facilitate its application as a guide or surveillance robot in a real world environment such as offices and hospitals.

■Feature

Size: W:300×D:250×H:800 (mm)

Weight: 14kg

Moving system: Two wheel and four wheel transformation system

Active suspension system

Maximum speed: 6km/h

Maximum acceleration: 2m/s² Degree of freedom: 25 D.O. F

(The number is robot's joint)

Operation time: about 1.5 hours

Speech recognition: Remote speech recognition

by the 14 channel-microphone array

Self location recognition: Scan matching by laser scanner

■ A word from the development team



We will conduct demonstration experiment to come in useful for everyone.

We are looking forward to seeing you at Hitachi uVALUE convention on 22th - 23rd July in

Tokyo International forum.