

Robots as an extension of a doctor's arm.

With integrated maxon DC brushless motors, doctors are able to assess a patient from up to 1,000km away. Thanks to Robotic haptics technology developed in Australia through Deakin University.

A robotic system developed by Deakin Uni, comprising an ultrasound with haptic technology, 3D video and reciprocal patient-doctor interaction is being trialled in rural and remote Australian communities. Reliant upon an internet connection using screens and cameras, it's useful for "any scenario where ultrasound would be used – be it diagnosing a sports injury, stomach complaint or pre-surgery assessment" said Dr James Mullins, Robotics Engineer at Deakin University. Supported by Telstra and trialled by Barwon Health, the robot acts as the doctor's arm to the point it is able to gauge the patient's level of pain and accordingly adjust the amount of pressure applied to the area under examination.

Ultrasound technology contains specialised maxon flat brushless motors with integrated DEC 5/0.4 controller. With customised hex shaft and seal for transducer mechanism the ultrasound is fired off encoder feedback. Fitted with coarse control and locking motor position for reliable transport and storage.

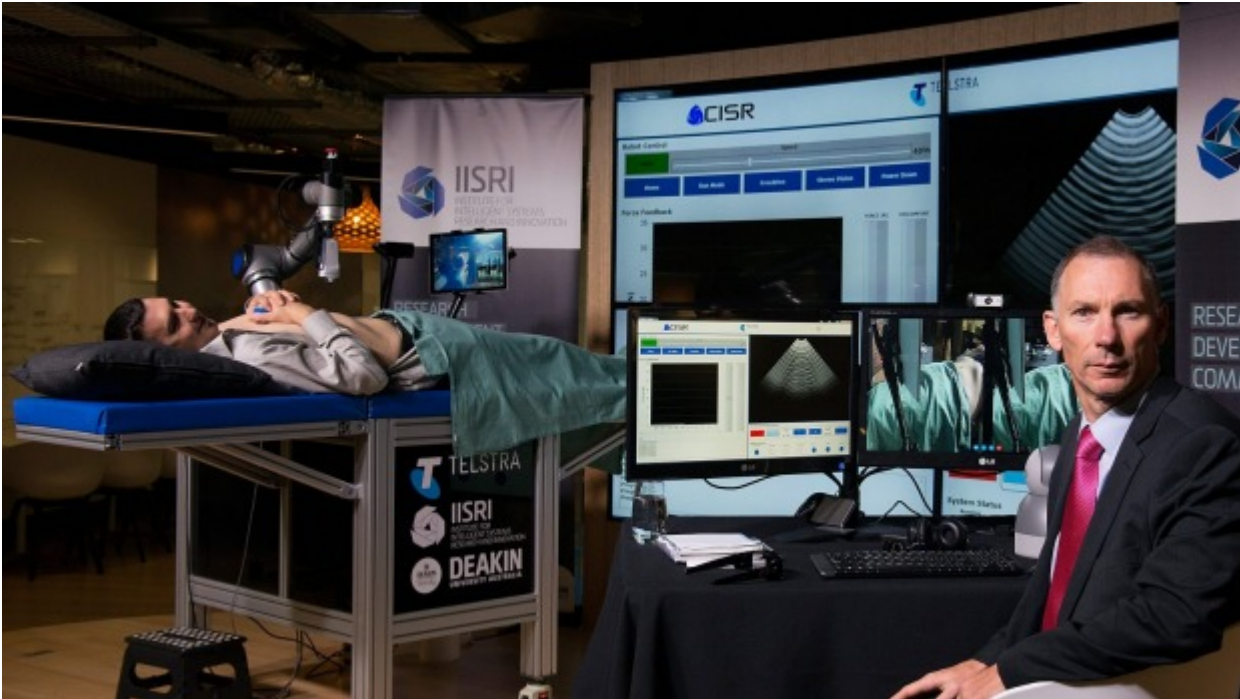
If you are developing a medical application and need DC motor advice, or for more information on DC motor capabilities within medical applications please contact maxon motor Australia on +61 2 9457 7477.

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The media release is available on the internet at: www.maxonmotor.com.au



The EC20 flat brushless motor with integrated DEC5/0.4 controller © 2016 maxon motor



Professor Glenn Guest with the new ultrasound robot that can diagnose patients up to 1,000km away.

Picture source: <http://www.smh.com.au/technology/sci-tech/the-robot-will-see-you-now-20160519-goyqft.html>

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