

Pioneering 3D surgery

Iain Jourdan, a pioneering surgeon at the Royal Surrey County Hospital in Guildford, has just performed the world's first laparoscopic surgery, assisted by images from JVC's 46" 3D monitor. He firmly believes this technology will revolutionise the medical industry, saving time and, ultimately, lives.



The first 3D operation – a standard gall-bladder removal – took less time than normal, due to the extra information Iain was able to glean from using the 3D technology during the procedure. “The tiny 3D camera scope, which we helped a US company develop, was inserted into the patient, with the feeds from this used to guide me as I operated,” Iain explains. “The distance between the lenses on the scope is in proportion to the distance away from the object being filmed, rather like a scaled-down version of a normal 3D camera rig, so the resulting images give a perfect representation of depth, essential for such critical operations.”

Images from the scope are fed via two camera heads to the JVC [GD-463D10](#) 3D monitor. Passive technology is essential for an operating theatre, since you can't have infra-red signals floating around this environment.

The reaction amongst Iain's fellow surgeons to seeing the 3D footage has been amazing. “It's real jaw-dropping stuff and I really believe this will revolutionise laparoscopic surgery,” Iain exclaims. “The quality of the image and depth perception is simply superb.” Iain is currently finalising details for the world's first 3D live surgery symposium at MATTU, one of the world's leading centres for training in minimal access surgery.