

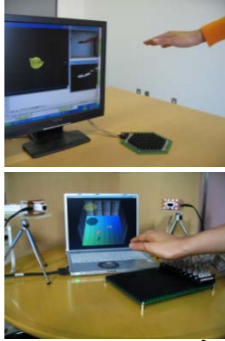

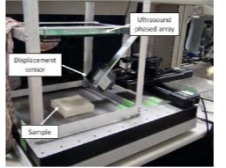

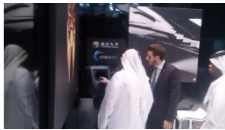

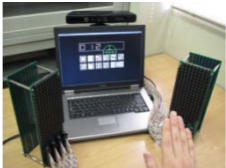
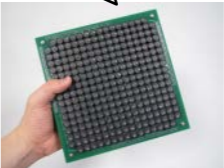

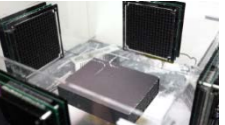
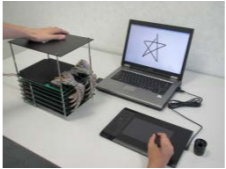
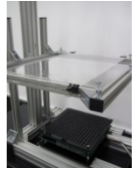
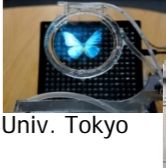
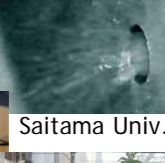



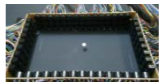




|                       | 2004   | 2005 | 2006   | 2007 | 2008   | 2009   | 2010  | 2011  | 2012  | 2013   | 2014  |
|-----------------------|--|------|--|------|--|--|---|---|---|--|---|
| Shinoda lab.          |   |      |  |      |  |  |   |   |   |   |   |
|                       | <p>Underwater 1D scan</p>  |      | <p>Underwater 2D scan</p>  |      |  |  |   |   | <p>Large aperture<br/>2,241ch/74mN</p>  |  | <p>ASKANET</p>  |
| Hoshi & joint studies | <p>The acoustic radiation pressure elicits tactile sensation.<br/>The sensation under water was reported by D.Dalecki et al. in 1995 and Shinoda lab. started to use it for tactile display in 2001.</p> |      |  |      |  | <p>Mid-air 3D scan</p>   |  |  |  |   |  |
|                       |  |      |  |      |  |  |   |  |  |   | <p>Coming soon</p>  |
|                       |  |      |  |      |  |  |   |   | <p>AIST</p>   |   |  |
| Others                |  |      |  |      |  |  |  |  |  |   |   |
|                       |  |      |  |      |  |  | <p>IRZU</p>   | <p>Univ. Bristol</p>  | <p>Univ. Bristol</p>  | <p>Univ. Bristol</p>   |   |
|                       |  |      |  |      |  |  |   |   | <p>JAIST</p>  |  |   |
|                       |  |      |  |      |  |  |   |   |   | <p>Bangor Univ.</p>  |   |
|                       |  |      |  |      |  |  |   |   |   |  | <p>14 Feb. 2014<br/>Takayuki Hoshi</p>  |