

HITACHI WHERE DOES IT FIT

“Brochure Figures” for the H1 Scanner

- Failure To Enrol FTE < 0%
- False Rejection Rate FRR = 0.01% (one in ten-thousand)
- False Acceptance Rate= 0.0001% (one in a million)

For comparison Apple Touch ID FAR is 1:50,000 for one finger enrolled and is 1 in 10,000 with 5 fingers enrolled.

Apple do not publish FRR rates however worth looking at
<https://www.wired.com/2013/12/touch-id-issues-and-fixes/>



| Matching Times on 1:1 local match | Hitachi Finger Vein | Fujitsu Palm Vein | IrisGuard Iris |
|---|---------------------|-------------------|----------------|
| Median recognition attempt duration (s) | 1.23 | 2.13 | 4.22 |
| Median enrolment duration (s) | 33.3 | 61.7 | 44.5 |

International Biometric Group tests IBG

Comparison of most advanced biometrics IBG report (CBT-6, 2006)

| Biometric | Finger Vein | Palm Vein | Iris |
|-----------------------|-----------------|-------------------|------------------|
| Manufacturer | <i>Hitachi</i> | <i>Fujitsu</i> | <i>IrisGuard</i> |
| Device | <i>UBReader</i> | <i>PalmSecure</i> | <i>H100</i> |
| FTE, two samples | 0.55% | 1.63% | 7.01% |
| FRR | 1.26% | 4.23% | 1.76% |
| FAR | 0.01% | 0.0118% | 0.01% |
| Recognition time [s] | 1.23 | 2.13 | 4.22 |
| Registration time [s] | 33.3 | 61.7 | 44.5 |