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* You should state whether an appropriate sample size was computed when the study was being designed
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Please outline where this information can be found within the submission (e.g., sections or figure legends), or explain why this information doesn’t apply to your submission:

Figure2; Figure 2-figure supplement 1,3, 4; Figure 5-figure supplement 2,3,5; Methods and Materials

**Replicates**

* You should report how often each experiment was performed
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Methods and Materials

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* Statistical analysis methods should be described and justified
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* Report exact p-values wherever possible alongside the summary statistics and 95% confidence intervals. These should be reported for all key questions and not only when the p-value is less than 0.05.

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Result>> Comparison with conventional single-channel-based registration methods

Methods and Materials>> Calculation of Dice scores

(For large datasets, or papers with a very large number of statistical tests, you may upload a single table file with tests, Ns, etc., with reference to sections in the manuscript.)

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* Indicate how samples were allocated into experimental groups (in the case of clinical studies, please specify allocation to treatment method); if randomization was used, please also state if restricted randomization was applied
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Figure2; Figure 2-figure supplement 1,2,3, 4; Methods and Materials>> Calculation of Dice scores

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* Where provided, these should be in the most useful format, and they can be uploaded as “Source data” files linked to a main figure or table
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