

Reference-free quantitative microscopic imaging of coherent arbitrary vectorial light beams: supplement

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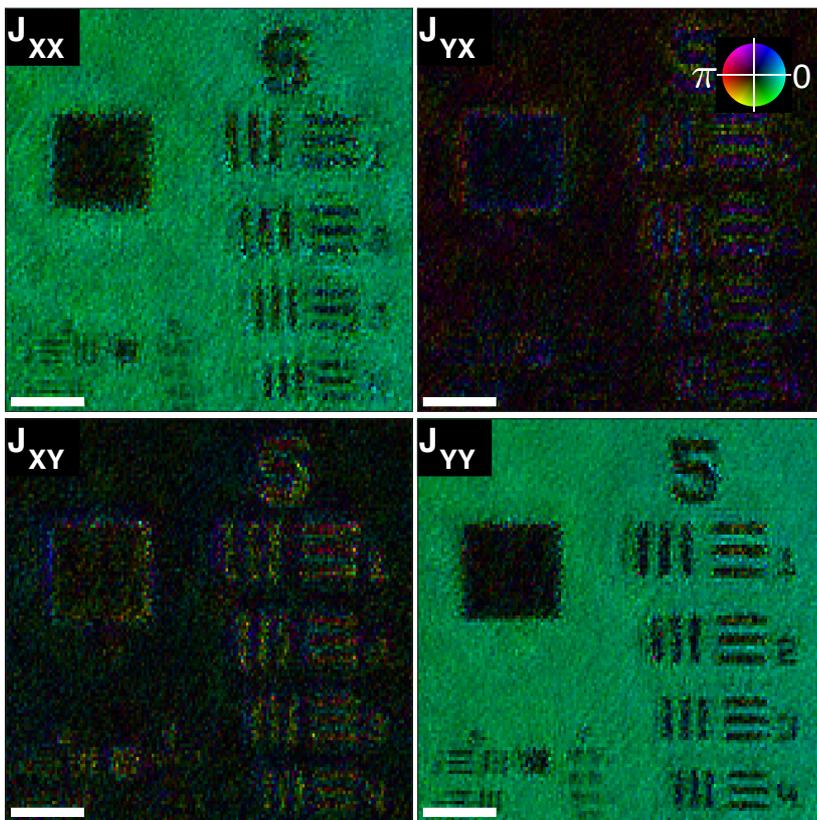


Fig. S1. Reconstructed Jones matrix maps of the scanned object, after data processing of the phase vortex beam. The corresponding reconstructed beam is shown in Fig. 4. The Inset shows the complex value color coding, with phase encoded as hue and modulus as brightness. Scale bars are $100 \mu\text{m}$.

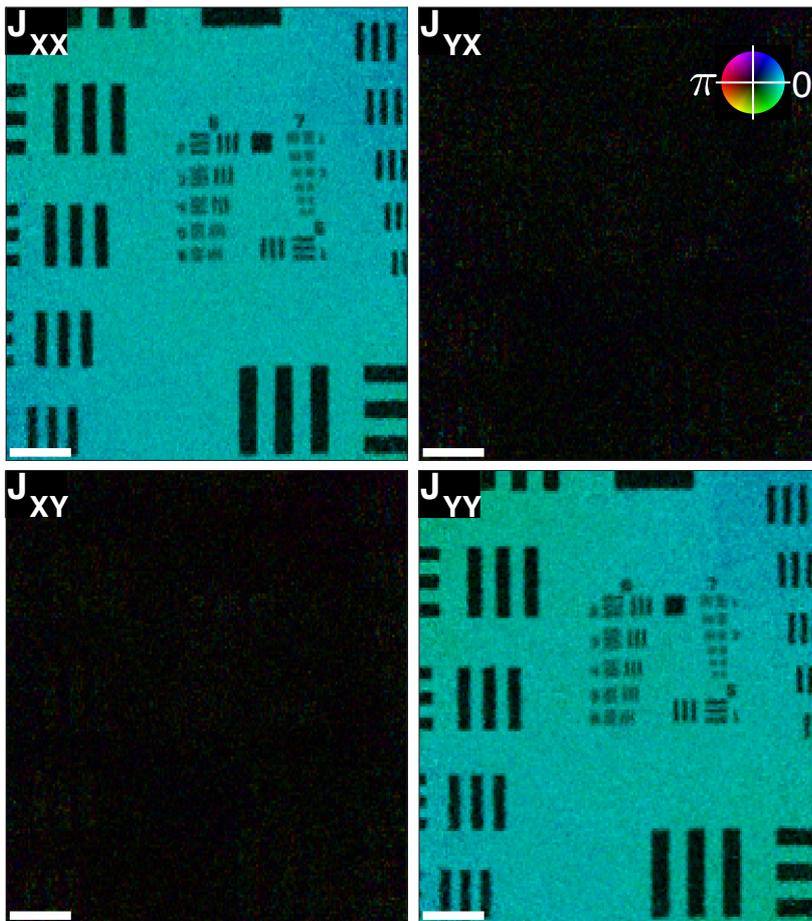


Fig. S2. Reconstructed Jones matrix maps of the scanned object, after data processing of the vectorial speckle. The corresponding reconstructed beam is shown in Fig. 5. The Inset shows the complex value color coding, with phase encoded as hue and modulus as brightness. Scale bars are $100 \mu\text{m}$.

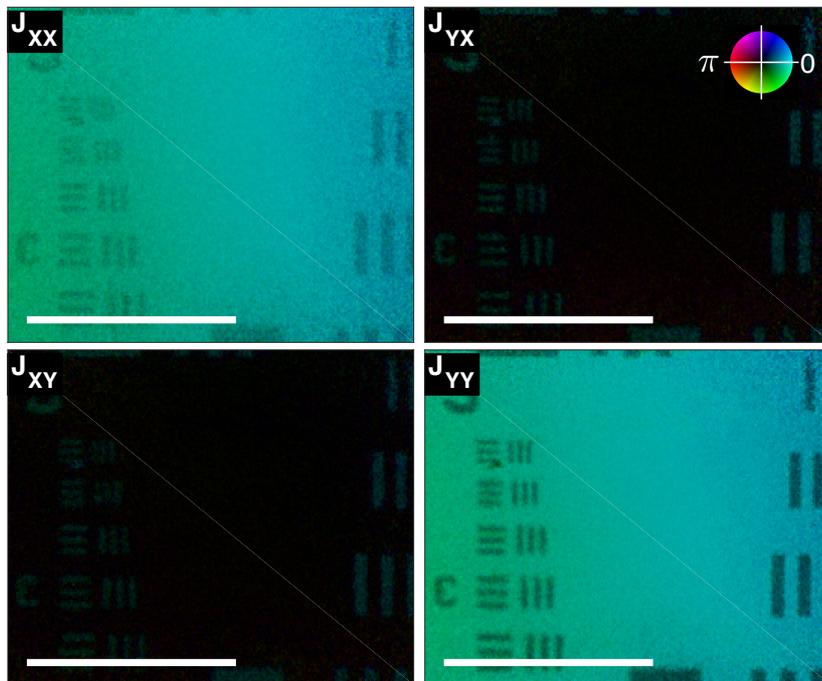


Fig. S3. Reconstructed Jones matrix maps of the scanned object, after data processing of the multicore fiber exit field. The corresponding reconstructed field is shown in Fig. 6. The Inset shows the complex value color coding, with phase encoded as hue and modulus as brightness. Scale bars are $100 \mu\text{m}$.