

Materials List for:

Compact Lens-less Digital Holographic Microscope for MEMS Inspection and Characterization

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URL: <https://www.jove.com/video/53630>

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Materials

Name	Company	Catalog Number	Comments
2 MP Camera	Imaging Source	DMX 41BU02	used to record the hologram. 4.65 microns pixel size
Motorized X,Y,Z Translation Stage	Zaber Technology	TLS28-M	Holder for the system
Beam splitter	Edmund optics	49-003	Cube Beam splitter. Separate and recombine the object and reference beam
Laser	Micro Laser Systems, Inc.	SRT-F635S-20/OSYS	Diode laser
Mirror	Edmund Optics	#43-412-566	1" Dia. Protected Gold, λ/20 Flat Zerodur
monomode Fiber	Thorlabs	S405-XP	Single Mode Optical Fiber, 400 - 680 nm, Ø 125 µm Cladding
Sample holder	Edmund Optics	#39-930	Ideal Positioning Platform, ±35 mm Travel in Both X and Y
Hotplate	Thermolyne Mirak hotplate	Barnstead International HP72935-60	temperature range 40-370 °C
Holoscope Software	d'Optron Pte Ltd		software developed by the NTU researchers