

# Fast Fourier single-pixel imaging via binary illumination: supplementary material

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## Supplementary Video S1

In this video we show the acquisition of a live scene using the proposed technique. The video is made up with a sequence of 167 reconstructed images. The frame rate is 10 and thus the duration of the video is ~17 seconds. The resolution of reconstructed images is  $256 \times 256$  pixels. Each image is reconstructed from 1,998 measurements and therefore the sampling ratio is ~2% (1,332 of  $256 \times 256$  complex-valued coefficients sampled in Fourier domain). No post processing has been applied to the reconstructed images.