



In the UIUC Physics 406 POM lab, we use Stanford Research System's SR-830 Dual-Channel *DSP* Lock-In Amplifiers (one is shown in figure below) to carry out *phase-sensitive* measurements of the complex pressure  $\tilde{p}(\vec{r}, t)$  and particle velocity  $\tilde{u}(\vec{r}, t)$  associated with a harmonic/periodic/pure-tone/single-frequency complex sound field  $\tilde{S}(\vec{r}, t; \omega)$ .



SR830 DSP Lock-In Amplifier