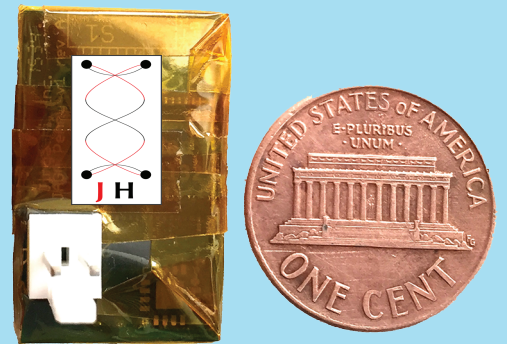
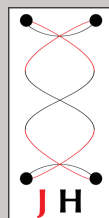


Simply plug and measure.



Portable Wireless Electrophysiology

compact · multichannel · all-in-one · affordable



JAGA Systems

JAGA_Penny

Wireless Electrophysiology Recording Device

Device Specification

Number of inputs	16 channels for EEG or 4/8 channels for unit recording
Differential configuration	Each input amplified w.r.t common reference
AC input range	± 5 mV
AC input conversion	16-bit resolution (0.15 μ V/bit)
Allowable Common mode input voltage range	± 0.4 V
Common mode rejection	82 dB at 50 or 60 Hz
High pass filter	1st order selectable either at 0.1 or 300 Hz
Low pass filter	3rd order Butterworth selectable at 300 or 6.75 kHz
Input referred noise	2.7 μ Vrms
Input impedance	1300 MOhm for 10Hz, 13 MOhm for 1kHz
Input bias/leakage	± 20 pA (± 20 nA maximum)
Crosstalk	-68 dB between adjacent amplifiers on the IC
Input connection	18 pin female header for each bank
Output connection	RF (FSK), Reception range $\sim$ 2-3m
Sampling Rate	1 kSps per channel or 7.85kSps
Real Time Software Interpolation	upto 15 (28)kSps/ch upsampling based on GUI software
Serial I/O	USB dongle
PC interface	USB dongle
Data acquisition	C++ or GUI software
Data file format	Non-proprietary Binary or Industry Standard
Dimension	24 mm x 15.4 mm x 3 mm
Weight	1.8 g (antenna included, battery excluded)
Battery	Rechargeable Li-Poly (Ion) battery (1,5,12 g)
Battery hours	e.g. > 1.5, 12, 24 hours (35, 250,500 mAh hour)