

ATLAS Stim Headbox

Stimulate while recording continuously from 64 channels of intracranial electrodes with sub-millisecond post-stimulus recovery

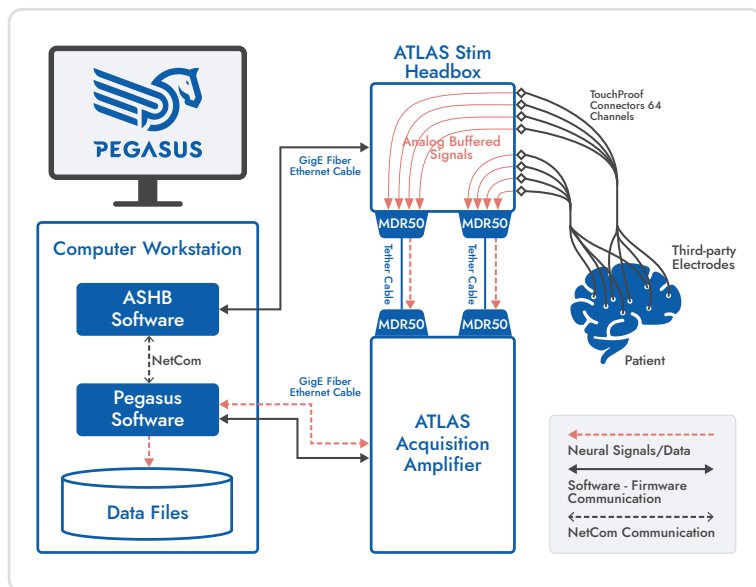
The ATLAS Stim Headbox (ASHB) is a clinical interface device that connects third-party Macro electrode contact arrays (ECoG, depth electrodes, grid arrays, strip arrays, etc.) to the Neuralynx ATLAS Neurophysiology System (510(k) K110967). It buffers signals from the electrodes for digitization by the ATLAS system and can also deliver precisely controlled electrical stimulation to each electrode. The hardware includes an encased amplifier and embedded firmware responsible for generating and delivering stimulation energy. Stimulation is managed via dedicated ATLAS Stim Headbox Software, which communicates through a fiber optic ethernet connection.



Nihon Kohden Connectors Option:
NK A (80 pin) and B/C/D (68 pin) Mini Junction Box Tethers (31-06011-0077)

Touchproof Connectors Option:
74 1.5mm Touchproof (31-0601-0089)

Natus Connectors Option:
High Density 68 pin connectors (31-0601-0132)



- 64 channels with Constant Current and Voltage mode stimulation and continuously connected recording buffers
- 8 References can also be used for stimulation and impedance measurement
- High input impedance buffering
- Constant Current (CC) and Voltage Mode
- Maximum safety voltage and current limits set per channel
- Electrode impedance measurement functions on all 64 channels and 8 references
- Fiber optic Ethernet for stimulus upload, status, and sampled stimulus waveform data transfer between ATLAS Stim Headbox and Atlas Stim Headbox control software
- Record delivered voltage and current stimulation waveforms

The ATLAS Stim Headbox is an accessory to the ATLAS Neurophysiology System and is not intended for standalone use. Similarly, the ATLAS Stim Headbox Software functions exclusively in tandem with Neuralynx's Pegasus software and cannot operate independently.