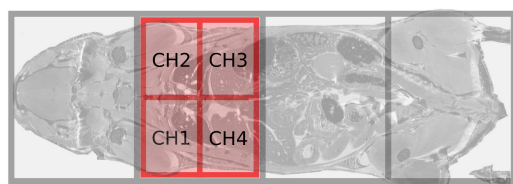
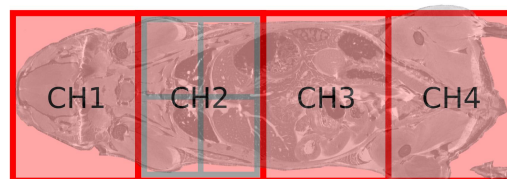


### Neos Biotec's dual-configuration technology:

Neos Biotec's dual-configuration phased arrays are optimized to give the best imaging performance in two different regions of interest.



*Mouse cardiac configuration*



*Mouse whole-body configuration*

### Technical Specifications:

- Nucleus: .....  $^1\text{H}$
- Main Field ( $B_0$ ): ..... 4.7 T / 7 T / 9.4 T / 11.7 T
- Receive-only, actively decoupled
- Dimensions: ... 67 mm (OD) x 57 mm (ID) x 300 mm (L)
- Number of array elements:..... 7
- Number of receive channels in scanner:..... 4
- Configurations ..... 2
  - Cardiac imaging
  - Whole-body imaging
- Configuration selection DC signal:..... TTL-compatible
- Low Noise Amplifiers: ..... 7 integrated amplifiers
- Additional equipment required:
  - Actively detuned, transmit-only volume coil
  - PIN diode driver

### Cardiac / Whole-body imaging:

The same physical elements of the array are connected in two different configurations.

The change from one configuration to the other is instantaneous: no need to reposition the animal, no adjustments.

### Best SNR in extreme loading conditions:

Unlike the usual limitation of volume coils, in which SNR is very dependant on filling factor, this dual configuration coil allows to maintain the highest SNR in all loading conditions (from thinnest to extremely obese mice).