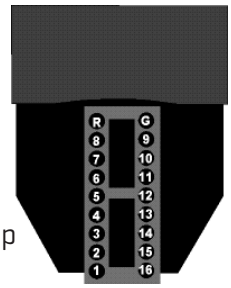
Fast Facts

Switchable Headstages

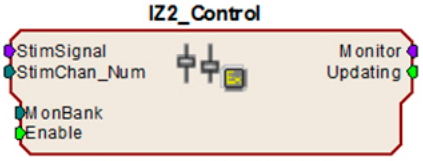
SH16-IZ Switchable Headstages



Overview. The SH16-IZ is designed for systems using the IZ2 stimulator and high impedance metal electrodes. It supports remote switching between stimulation and recording. Typical switching time is 53 ms.

Input Connector: 18-pin Dip
Mates with: 0.5 mm pins
Recording Gain: Unity (x1)
Input Impedance: 10^{14} Ohms, when recording

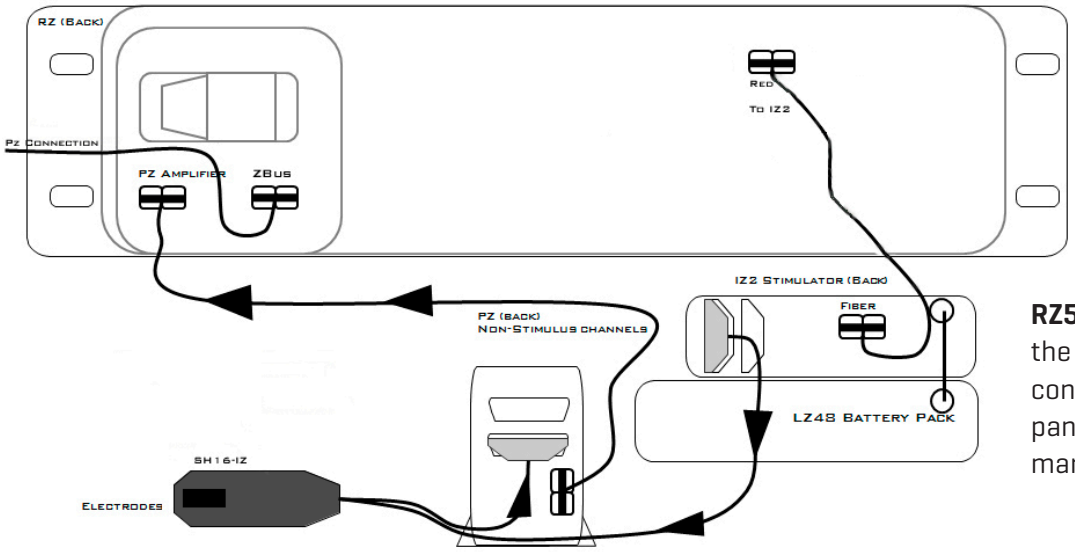
Programmable Control. Channel selection is handled within the IZ2_Control macro that runs on the RZ base station. The macro generates a 24-bit serial pattern to control channel switching. *See the Help text in the IZ2_Control macro's properties dialog for more information.*



Voltage Stim Mode (32 ch)

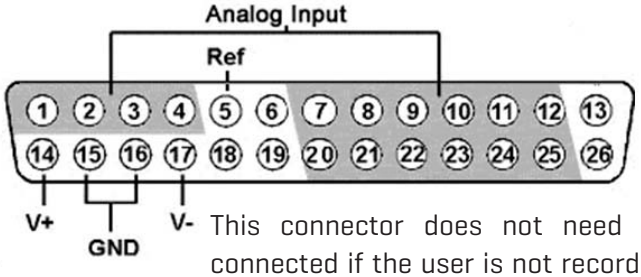
Tip. Connect electrodes to an 18-pin DIP socket and then connect the socket to the headstage to protect the headstage from unnecessary wear and soldering heat.

Connection Diagram for RZ2



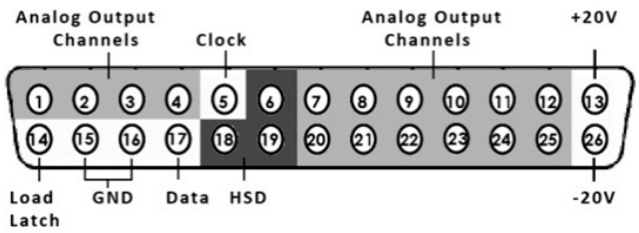
RZ5D Note. When using the RZ5D, the IZ stimulator and PZ amplifier connections are on the front panel (lower right) and are clearly marked for easy identification.

DB26 Amplifier Connector



This connector does not need to be connected if the user is not recording on the non-stimulating channels.

DB26 Stimulator Connector



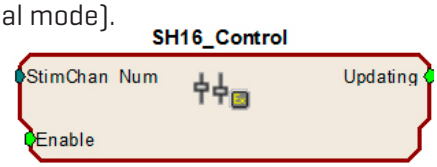
Note. *For more information see the System 3 Manual.*

SH16/SH16-Z Switchable Headstages

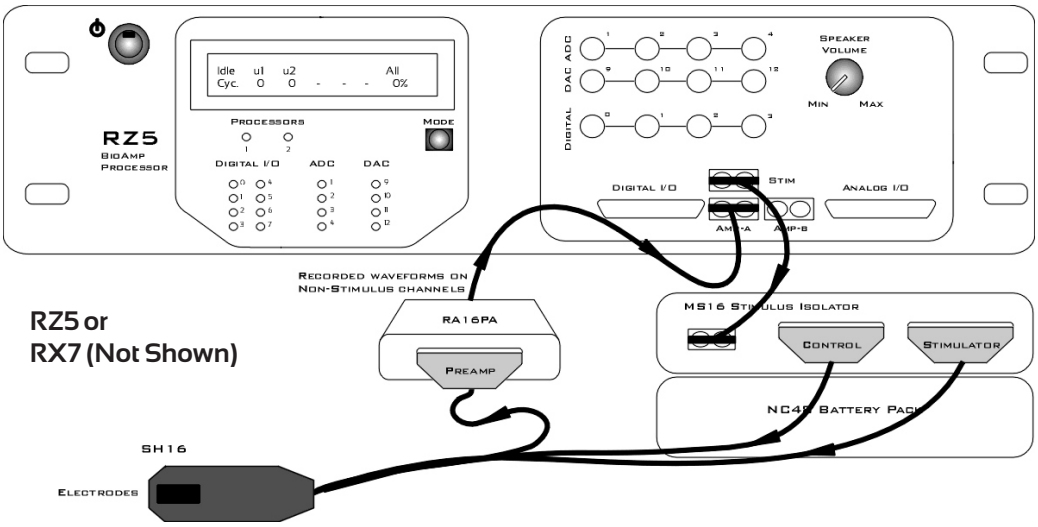
Overview. The SH16 and SH16-Z feature headstage hardware identical to the SH16-IZ, but interface to an MS16 instead. The ground is switchable to facilitate using an input channel for reference.

Connection Diagram. The headstages are used with the RZ5 or RX7 and the MS16. The SH16 is used with the RA16PA preamplifier and the SH16-Z is used with the PZ2/PZ5 preamplifiers.

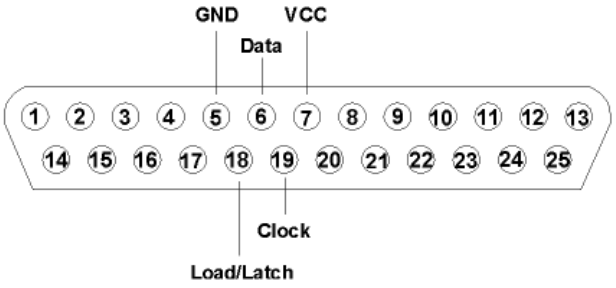
Programmable Control. When using a switching headstage with an RZ5 or RX7 processor and an MS16 Stimulus Isolator, use the SH16_Control macro to set stimulation channels and mode of operation (single ended or differential mode).



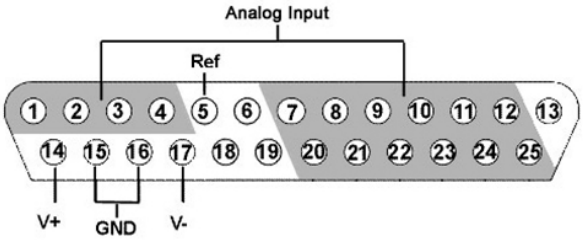
Single Ended Stim Mode (RZ5)



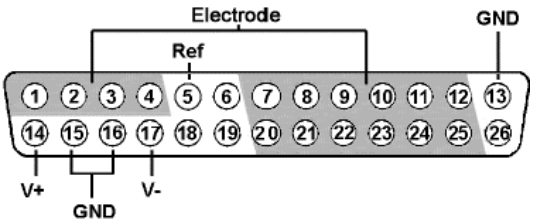
DB25 Control Connector. The Control DB25 can be connected to any control device that produces a 3V logic signal. It must be connected as it carries power for the headstage (SN > 2000).



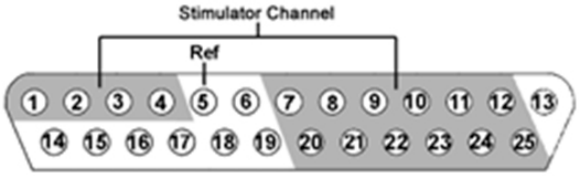
DB25 PreAmp Connector (for RA16PA/RA4PA preamplifiers). This connector does not need to be connected if the user is only stimulating (SN > 2000)



DB26 Pinout Connections (for PZ preamplifiers)



DB25 Stimulator Connector



Note. *For more information see the System 3 Manual.*

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