hyMesh™ Wireless

SRD Innovations’ patented hyMesh™ wireless solution enables the collection of the full data set in real-time without bottlenecks. It provides immediate access to quality control (QC) information and allows the recorder to modify the recording program through the wireless network on the fly while removing the need to harvest and transcribe the data. The data remains safely stored in the boxes as a possible back up for later retrieval.

The hyMesh™ solution has the following capabilities:

- **The capacity** to collect the complete data set acquired in large surveys in excess of 10,000 channels.
- **The range** to reach boxes that could be tens of kilometers away.
- **The coverage** to reach every box in the survey despite terrain changes and other obstructions.
- **The ease of deployment** over difficult terrain by the seismic crew using a simple “drop-and-go” method.
- **The ease of use** with an intuitive graphical user interface
- **The seamless integration** with Sigma boxes from iSeis.

The hyMesh™ solution for conventional seismic surveys is available in kits of 100 nodes (300 channel capacity).

The hyMesh™ solution for microseismic surveys is also available. SRD can help design a suitable network layout for your specific requirements.

*US Patent No. 8,217,803, Applications No. 20090265140, 20110170443.*
Specifications*

<table>
<thead>
<tr>
<th></th>
<th>Node</th>
<th>Relay</th>
<th>Aggregator</th>
</tr>
</thead>
<tbody>
<tr>
<td>Maximum Height**</td>
<td>180cm</td>
<td>180cm</td>
<td>180cm</td>
</tr>
<tr>
<td>Weight **</td>
<td>0.8kg</td>
<td>0.8kg</td>
<td>2.4kg</td>
</tr>
<tr>
<td>Range</td>
<td>&gt; 500m</td>
<td>&gt; 500m</td>
<td>&gt; 5km</td>
</tr>
<tr>
<td>Wireless Technology</td>
<td>802.11</td>
<td>802.11</td>
<td>802.11</td>
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<tr>
<td>Antenna Type</td>
<td>Omni</td>
<td>Omni</td>
<td>Yagi</td>
</tr>
</tbody>
</table>

*Specifications are preliminary and are subject to change without notice.
**Optional tripod is available for 20-40 cm more height and 1kg (2.2 lbs) more weight.

**Nodes** collect the data from the boxes by automatically connecting to each other, as well as to Relays and Aggregators.

**Relays**, in conventional surveys, establish a wireless link between two Nodes in the rare case where there are obstacles and rough terrain. In microseismic surveys, Relays carry the data from the boreholes to the collection center.

**Aggregators** collect the data from Nodes and transmit it back to the Collection Center (CC).

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