Why do I need 140dB DNR

- A SRC is used to synchronize different Digital Audio Signals
- State of the Art performance of DACs is about 120dB DNR
- The rule of thumb is, that in order to NOT audibly degrade the DAC performance, the SRC has to be at least 10dB better (see table)

<table>
<thead>
<tr>
<th></th>
<th>DAC = 120dB</th>
<th>SRC = 120dB</th>
<th>Error</th>
<th>DAC = 120dB</th>
<th>SRC = 130dB</th>
<th>Error</th>
<th>DAC = 120dB</th>
<th>SRC = 140dB</th>
<th>Error</th>
</tr>
</thead>
<tbody>
<tr>
<td>DAC only</td>
<td>120dB</td>
<td></td>
<td></td>
<td>120dB</td>
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<td></td>
<td>120dB</td>
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<tr>
<td>DAC + 1 SRC</td>
<td>117dB</td>
<td>-3dB</td>
<td></td>
<td>119.6dB</td>
<td>-0.4dB</td>
<td></td>
<td>119.96dB</td>
<td>-0.04dB</td>
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<tr>
<td>DAC + 2 SRC</td>
<td>115.2dB</td>
<td>-4.8dB</td>
<td></td>
<td>119.2dB</td>
<td>-0.8dB</td>
<td></td>
<td>119.91dB</td>
<td>-0.09dB</td>
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