Q: What are the different 2X2NaI(Tl)-ANALOG part numbers?
A: S690-1065-XX-00

<table>
<thead>
<tr>
<th>Part Number</th>
<th>PHR</th>
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</thead>
<tbody>
<tr>
<td>690-1065-04-00</td>
<td>≤9.5%</td>
</tr>
<tr>
<td>690-1065-12-00</td>
<td>≤8.5%</td>
</tr>
<tr>
<td>690-1065-16-00</td>
<td>≤7.5%</td>
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Q: What is typical lead-time?
A: An existing 2X2NaI(Tl)-ANALOG part number is 8 to 12 weeks. Currently the SiPM integrated detectors are being built by R&D / Engineering. Once these are transferred to full production lead-time should drop to 4 – 6 weeks. New designs are 12 - 14 weeks.

Q: What SiPM do we use
A: We use the SensL J-series

Q: Mechanical question specific to the SiPM
A: SensL would be better suited to answer question

Q: Which scintillator types are available with SiPM?
A: currently only NaI(Tl)

Q: At the end, we would like to get TTL signal from individual detected photons. If the sensor provides the TTL signal can it be read in parallel with the analog I-V preamp output?
A: You cannot have both analog and TTL out at the same time. It has to be one or the other.

Q: Would we need an external discriminator or does the sensor provide this by default? (pin 3 TTL Out?)
A: In the 2X2NaI(Tl)-ANALOG configuration there is a need for an external discriminator. However, we do have the option of providing a version of the detector with a built in discriminator.

Q: What functionalities OUTPUT ADAPTER, SiPM ANALOG, USB provides and what is the CAP SUB-ASSEMBLY?
A: It provides a quick adapter for testing and MCX connector.

Q: Detector has a gain self-adjusting algorithm, but in our application we fine tune the gain with a self-regulating loop. We would like to be able to apply the same method. In the manual it is not described how to set gain: how can we change it?
A: We can set the gain here or turn off the auto temperature compensation.

Q: Does the SiPM signal output read the same as PMT?
A: No
Q: What is the difference between charge sensitive analog versus the digital I to V version?
A: The Charge Sensitive Pre-Amp version is designed to feed into existing PMT based electronics. The I to V version is designed to feed into newer, high speed digitizers.

Q: At what point does the noise due to temp overwhelm the low energy signal?
A: Okay at 40°C but somewhere between 40° and 45° this may become an issue

Q: What are the power in and signal out requirements?
A: Power in 5 volts at 15 milliamps

Q: Is a Scintillation detector integrated with SiPM more robust than a detector with PMT?
A: No, the scintillator package has the same conditions

Q: Is the performance comparable to a PMT?
A: It depends on the size of the crystal but yes for 2” diameter x 2” thick