**Preamplifier Information**

For BII Hydrophones with Built-in Preamplifier

If your project has special requirements, please email us the info. We are happy to help choose suitable preamp embedded inside the hydrophone.

| Preamplifier: | BII-1000 Series Hydrophone Preamplifier.  
2. Customized: Specify when ordering. |
|-------------|----------------------------------------------------------------------------------|
| Preamplifier Gain: | Bespoke, specify when ordering.  
1. Fixed Gain: -40, -20, 0, 26, 40 or 60dB,  
2. Digitally Programmable Gain: 0, 20, 40, 60dB. |
| Overload Pressure Level: | $20\log(\text{Maximum Output}/2.828) - \text{Sensitivity}, (\text{dB } \mu\text{Pa})$. |
Some preamplifiers only support high pass filter, the others support bandpass filter. Please check out the specification of a specific preamplifier. |
2. Differential Output (DF), Append DF to the listed part number. |
| Supply Voltage: | +4.5 to +30 VDC, +7.5 to +30 VDC or +9 to +30 VDC, Preamplifier dependent. |
| Suggested DC Supply: | +9VDC Battery, Marine Battery, Automobile Battery, Fixed DC Linear Power Supply, Not Included.  
DO NOT use variable power supply whose maximum supply voltage is higher than the rated voltage.  
DO NOT use switching mode DC power supply. |
| Current (Quiescent): | 0.36mA to 13mA, Preamplifier dependent. Refer to BII-1000 Series Hydrophone Preamplifier. |
| Cable: | Shielded Cable (ΦD=6.5mm) (SC65) or (ΦD=8.7mm) (SC87) |
| Cable Length: | 1. default: 10m; 2. Custom: up to 1000m  
Note: for driving long cable (comparing to electromagnetic wavelength), please choose differential output, and request impedance matching between preamp output impedance and the characteristic impedance of the cable. |