



Figure 20. A photograph of a SonTek Argonaut-XR (Extended Range) Acoustic Doppler Profiler (ADP). The ADP's three transducers (yellow circles in the photograph) transmit and receive sound along acoustic beams. Because Doppler shift is proportional to the component of water flow along the beams, trigonometry can be used to convert the returned acoustic signal into eastward, northward, and vertical components of water flow. This photo is courtesy of SonTek.