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## Guidelines for development of a portable broadband OBS

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We developed a compact broadband OBS, and have deployed it in a array several times since 1997. The broadband OBS uses PMD2023 as the sensor. We omitted a gimbals mechanism to level the sensor because the sensor operates even at 5 degrees tilt. The sensor was installed within the tilt range usually if we choose the deploy position, and we could have a good records of the broadband OBSs in most of cases.

These experiences gave us several points to improve the system; sensor quality, recorder dynamic range, mechanical structure, and capacity of the power supply. These are all important to have a practical broadband OBS for long term observation in the future.