

Nuclear Surveyor-100 Camera



Bowtech Products have released the Surveyor-100 colour zoom camera. This camera is ideally suited to Nuclear applications, although with its 100 metre rating it also makes for a shallow water viewing solution. In an irradiated environment the Surveyor-100 with its 36:1 optical zoom allows the camera to be located further away from the subject being viewed, compared to traditional cameras. This reduces the effects of radiation, resulting in an increased camera life.

An electro-polished stainless steel housing with a Spectrocil non browning fused silica window further enhances the longevity.

One of the features of this camera is the advanced backlight compensation technology that dramatically improves the camera's dynamic range, resulting in clear image reproduction in extreme high-contrast environments, known as wide dynamic.

The camera captures the same image twice, first with a normal shutter speed and then with a higher shutter speed. The dark areas are captured at normal shutter speed and the bright areas are captured at high shutter speed. These are then combined into one image using an advanced DSP LSI, thus clearly reproducing high-contrast images of the original scene.