

## CRIS II - Cerenkov Radiation Inspection System Spent Nuclear Fuel Imaging System

The CRIS II is a compact inspection system designed to view Cerenkov light produced by fuel assemblies that are stored in water ponds. It uses an image intensifier designed to amplify the ultra-violet (UV) portion of the Cerenkov light generated by spent nuclear fuel. Using the smart phone module, the system can display and store digital data, or it can be used with the analog module offering a standard eyepiece. This instrument is only sensitive to the 290-340 nm region of the spectrum, allowing it to be used under most normal lighting conditions found in a spent fuel pond.

### Features:

- High sensitivity image intensifier
- User selectable gain
- Customizable to accommodate any brand and model of smart phone
- Smart phone (digital) and analog modules included
- Digital module comes with rechargeable battery pack



### Applications:

- Verification of spent nuclear fuel
- Identification of irradiated items and non-irradiated items

### Instrument Includes:

- UV zoom lens, UV bandpass filter, intensifier, eyepiece, and transport case

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