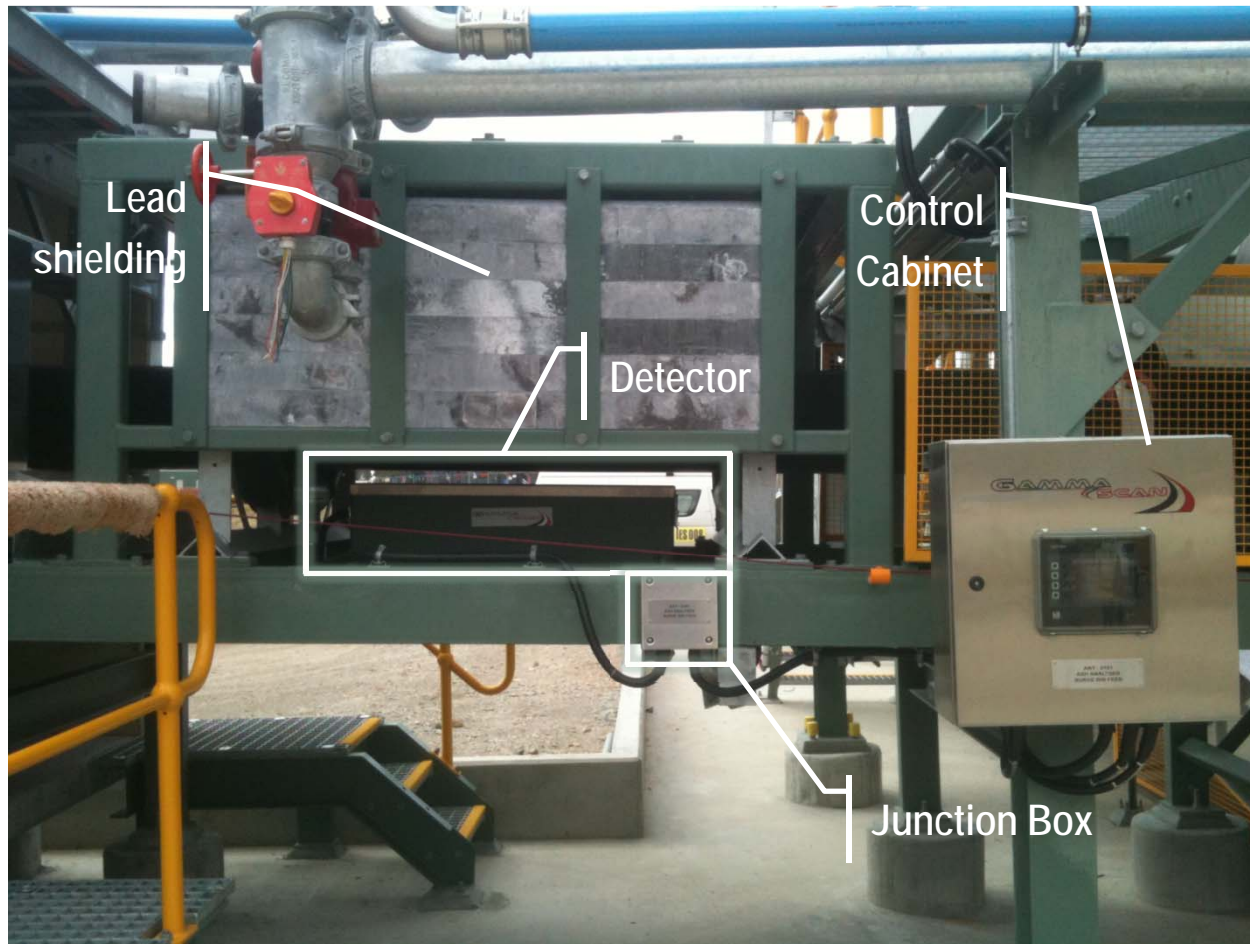


GammaScan™

- Natural Gamma

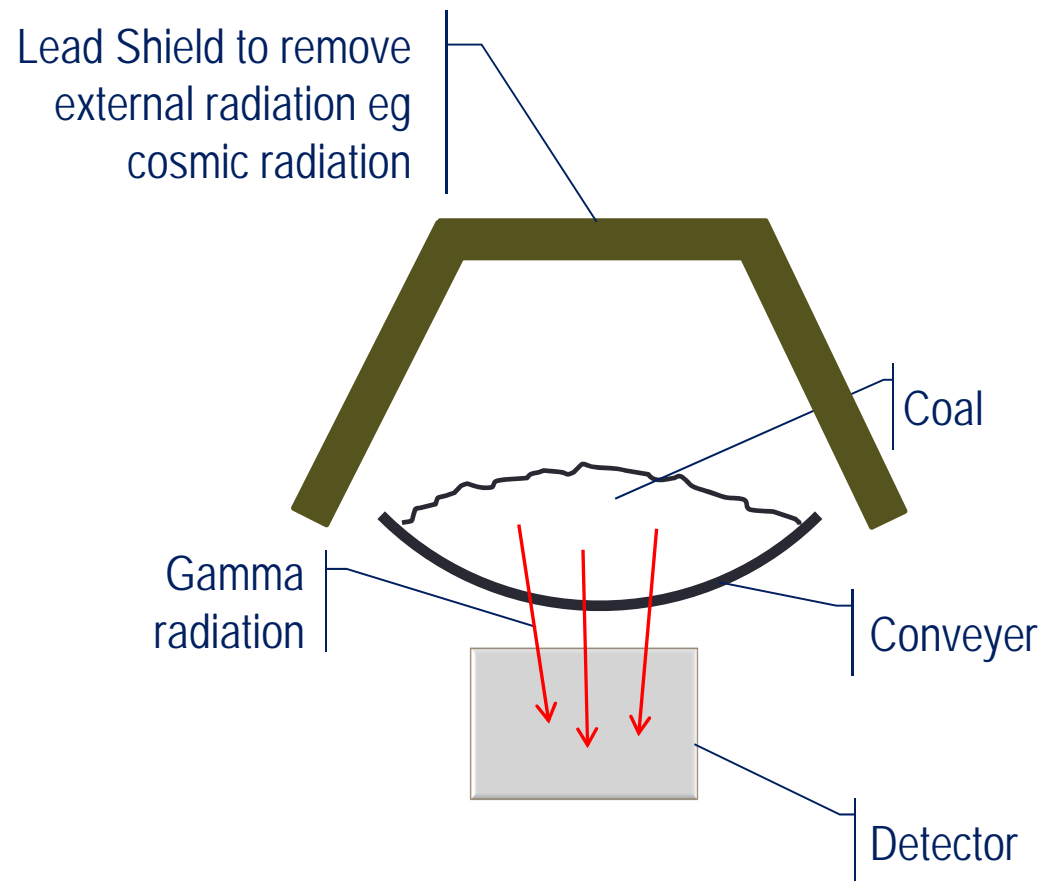


GammaScan™ - INSTALLATION



GammaScan™ - WORKING PRINCIPLE

- Measures the natural background radiation from the Coal, which is primarily due to K, U, Th levels.



GammaScan™ - WORKING PRINCIPLE

- The K, U, Th levels correlate well with Ash Content.
 - Correlation can vary with different coals. Multiple calibrations can be stored and used.
 - Coals from different seams in the same deposit are usually OK.
- Natural radiation levels are very low therefore
 - Uses a large NaI detector for maximum sensitivity
 - Needs lead shielding to screen out external radiation (cosmic rays etc.)

