

C Scan Mk 1

The C Scan system is a light, manually operated, low cost system for the detection of internal structures of distillation columns in oil and gas (or chemical) industries as shown in figure below. .



The system includes

- A detector holder ;
- A source holder (to be used with a Cobalt 60 source) in stainless steel and lead ;
- Handling cables for operation from the top of the column ;
- A cable for data transmission from detector to data logger ;
- A scintillation detector (usually NaI(Tl) 1.5" x 2") ;
- A data logger for data recording (12 VDC battery powered), able to work alone or connected to a laptop ;

A laptop with software for data visualisation, recording and processing. Is available optionally

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Benefits

The system, through vertical profiling of the installation, provides knowledge on the status of internal structures of the column (trays, packed bed,, etc.) when the column is in operation.

This may enable the possibility of repairs to the column and minimising the shut-down time thus achieving savings in maintenance cost.



Data Logger



Cable



Detector



Detector holder