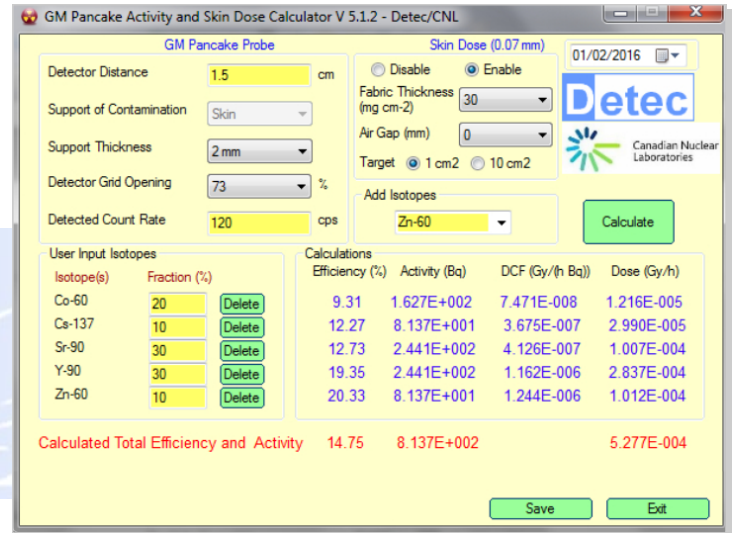


ACTIVITY & SKIN DOSE CALCULATOR

An all-in-one software solution to calculate contamination activity, dose rate, and skin dose.



The **Activity & Skin Dose Calculator** is designed to assist radiation protection professionals in the characterization of radioactive contaminations and remediation efforts. This user-friendly tool accurately determines radionuclide absolute activities on contaminated surfaces and calculates skin dose rates.

The Windows™ based **Activity & Skin Dose Calculator** complements the commonly used 15 cm² area thin window Geiger Mueller (GM) pancake probe. This program combines relative abundance information and a GM pancake probe count rate measurement of the field to determine absolute activities of each radionuclide present within a contamination. As an all-in-one tool, the **Activity & Skin Dose Calculator** is a time-saving program that eliminates the need for completing lengthy calculations.

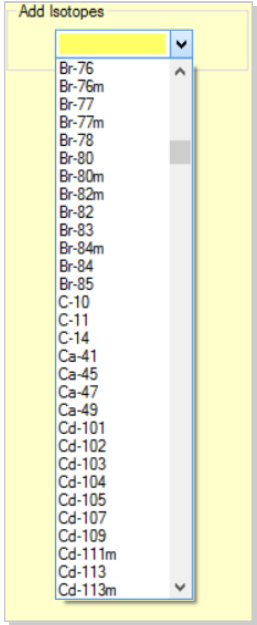
Key Features:

- Calculates absolute activity for mixed contaminations containing as many as 25 radionuclides
- Complete with a variety of contamination backing materials (air, skin, aluminium, steel)
- Allows for a range of source-to-probe measurement distances (0.5 cm - 10 cm)
- Provides accurate skin dose estimates for skin or on-clothing contaminations
- 1200+ contamination radionuclide library to choose from
- User-friendly graphical interface

For a **free demo version** of the **Activity & Skin Dose Calculator**, contact us at:
info@detec-rad.com



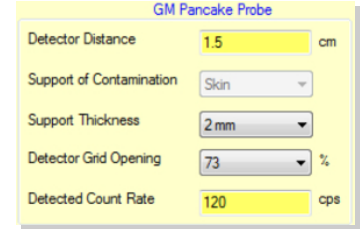
PREVIEW OF THE SOFTWARE



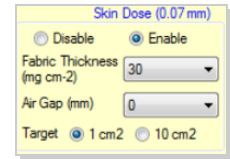
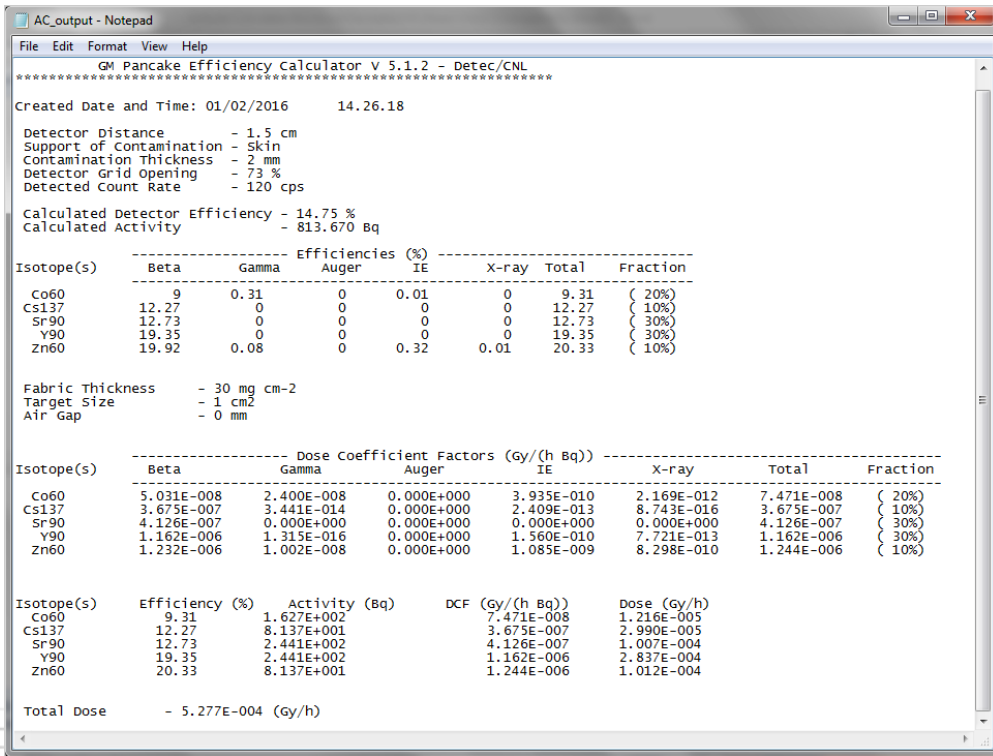
The **Activity & Skin Dose Calculator** uses GM probe count rates, along with user provided information on the measurement conditions, to calculate the absolute activities of the constituent radionuclides of a contamination.

User Input Isotopes		Calculations			
Isotope(s)	Fraction (%)	Efficiency (%)	Activity (Bq)	DCF (Gy/(h Bq))	Dose (Gy/h)
Co-60	20	9.31	1.627E+002	7.471E-008	1.216E-005
Cs-137	10	12.27	8.137E+001	3.675E-007	2.990E-005
Sr-90	30	12.73	2.441E+002	4.126E-007	1.007E-004
Y-90	30	19.35	2.441E+002	1.162E-006	2.837E-004
Zn-60	10	20.33	8.137E+001	1.244E-006	1.012E-004
Calculated Total Efficiency and Activity		14.75	8.137E+002		5.277E-004

Designed for contamination mixtures containing up to 25 radionuclides, the **Activity & Skin Dose Calculator** library offers the user a list of over 1200 radioisotopes to choose from.



Estimated skin dose rates are also produced for on-clothing and skin contact contaminations. Verified against extensive Monte Carlo simulations, the **Activity & Skin Dose Calculator** is an all-in-one contamination calculation solution.



Results are immediately displayed in the program window. This information, along with the user input parameters and contributions from each type of radiation emission, is conveniently saved within a text file for future reference.

Visit our website for more information:

www.detecsciences.com



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