

UPCT Universal Perforating and Correlation Tool

APPLICATIONS

- Gamma ray–CCL correlation
 - During perforating runs for single-trip efficiency
 - Through tubing
 - In tubing and casing
 - At extreme depth and temperature

The UPCT* Universal Perforating and Correlation Tool is a gamma ray–casing collar locator (GR–CCL) depth correlation tool for perforating operations. It is compatible with any type of detonator, including radio frequency–immune detonator systems on both polarities (addressable switch).

The depth correlation provided by the 1¹¹/₁₆-in [4.29-cm] UPCT tool is used to precisely position perforating guns and other through-tubing explosive devices. The rugged design and robust electronics of the UPCT tool enable running it on the same string as the perforating guns without requiring a shock absorber sub.

Measurement Specifications

Output	Formation gamma ray, casing and tubing collar location
Mud type or weight limitations	None
Combinability	Combinable with all detonator types and perforating guns without requiring a shock absorber sub
Special	H ₂ S service Shock qualified to 5,000-g pyro

Mechanical Specifications

Temperature rating, degF [degC]	350 [177] 1-h excursion: 400 [204]
Pressure rating, psi [MPa]	20,000 [138]
Borehole size—min., in [cm]	1.75 [4.44]
Borehole size—max., in [cm]	No limit
Outside diameter, in [cm]	1.6875 [4.29]
Length, ft [m]	Without gun: 4.5 [1.37]
Weight, lbm [kg]	25 [11.3]



UPCT tool.