

HOW THE PIT VIPER MEASURES INFRARED RADIATION

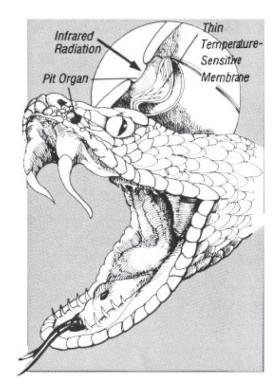
Like the IRt/c, the pit viper has the ability to "see" infrared radiation.

EXERGEN

ORPORATION

Pit vipers comprise a family of snakes that share a sophisticated thermal adaptation that stems from the evolution of specialized pit organs located near their eyes. These organs sense the infrared radiation of an approaching warm-blooded animal and send signals to the snake's brain. These signals are used with the visual picture provided by the snake's eyes, giving the snake more complete information about its environment.

Pit organs are small facial cavities covered by a thin membrane of sensory cells that respond to temperature differences between the target and the snake's body temperature. These sense organs are so sensitive they can resolve differences of just .003°C. Pit vipers can detect the presence of a warmblooded animal at distances of up to 50 centimeters in total darkness simply from the animal's infrared radiation. The pit viper quickly and accurately scans the target with its infrared-sensing pit organs before deciding to strike to defend its nest or attack its prey.



The non-contact temperature capability of both the pit viper and the IRt/c provides the survival edge in a fiercely competitive environment.

Exergen Corporation office:

USA 400 Pleasant Street Watertown, MA 02472 Tel: +1 617 923 9900 press 4 for industrial Fax: +1 617 923 9911 Exergen Industrial International/OEM Sales office:

Clever IR The Netherlands Pastoor Clercxstraat 26 5465 RH Veghel Tel: +31 (0)413 376 599 industrial@exergen.com www.exergen.com