

ODU-830-2 Officer Duress Unit Operational Description

The Officer Duress Unit (ODU-830-2) is a small, lightweight, belt mounted device that is generally carried by the staff officer that can be used to audio-visually alert other officers' whenever the built-in distress button is pressed, if the device is pulled away from the officer's belt (lanyard), or if the officer is pushed down to the ground (man-down). The Officer Duress Unit also provides continuous monitoring of the officer's location.

The wireless alarm signal is automatically transmitted when the officer either falls down or the device is pulled-away from the belt (lanyard). The officer will have the capability of manually sending an alarm signal by pressing a panic button located on the device.

The ODU-830-2 Officer Duress Unit is a battery-operated unit. The tag comprises one Printed Circuit Board (PCB), which includes a RF transmitter module with an integral antenna, and a microcontroller, which controls its operation.

The ODU-830-2 has one RF channel. It is 433.92 MHz carrier with FSK modulated data.

While turned-on the Officer Duress Unit transmits a 5mSec identification & status signal and then it stops transmission. As a public life safety equipment the Officer Duress Unit transmits the next signal 18-22 seconds after the last signal transmission – any interruption in the reception of the transmitted signal may put officer life at risk – the central monitoring system sends an immediate alert to the others officer or to the sheriff in-charge, which should take immediate actions to **ensure officer safety**