Mergen® TIM

Detector Training System

✔ Instant Detection of Usage Errors
✔ Audio & Visual LED Alert
✔ Compatible with All Detectors
✔ Instant monitoring by Trainer
✔ After-Action-Evaluation Training Report

Sweeping Height Alert

Sweeping Speed Alert

Sweeping Angle (Wrist) Alert

Sweeping Arc Alert

Collective Detector Training System MERGEN-TIM is a detector training system which is completely designed, developed and manufactured aiming to reduce user faults during mine and improvised explosives devices (IED) searching operations. It's a great system to make the proper detector usage as a reflex action for operators.

During the sweeping; height, speed, angle (wrist) and arc errors are detected by the MERGEN-TIM sensor unit, and these errors are instantly presented to operators visually and audibly. At the same time, the trainer can monitor these errors wirelessly with the KUTAD software on the remote tablet.

Height

It is the height of the search head from the ground. The device will give both audio and visual alerts in case of exceeding the height limit.

Speed

It is the sweeping speed of the detector, it means the movement of search head from point A to point B. The device will give both audio and visual alerts in case of exceeding the upper and lower speed limit which is set as default.

Angle (Wrist)

It is the angle that defines the parallelism of the search head to the ground during sweeping. This angle is also defined as the detector losing its parallelism to the ground due to the wrist movement of the user during sweeping. The device will give both audio and visual alerts in case of exceeding the angle limit which is set as default.

Arc

This is the sweeping arc during the operation. In a standard sweeping, it's expected that the operator sweeps a certain area within the arc. The device will give both audio and visual alerts in case of exceeding the arc limit which is set as default.

Mergen TIM enables training of 5 operators simultaneously

The trainer can adjust the values of these parameters according to the detector or application with the KUTAD software. It can transmit wirelessly to the MERGEN-TIM sensor units.

With the KUTAD software, the trainer monitors view the total number of movements, in addition to displaying the errors instantly, the number of individual error has been made by the operators. At the end of the training, the training result report can be generated by KUTAD software automatically with the all details.

MERGEN TIM®

Technical Specifications

Fault Parameters: Height, Speed, Angle (Wrist), Arc
Height Accuracy: ± 1 cm
Arc Angle Accuracy: ± 5 °
Wrist Angle Accuracy: ± 5 °
Speed Accuracy: ± 0.2 m/s
Alert: Audio & Visual LED
Sensor Battery: Rechargeable
Sensor Operation Time: 15 hours
Data Transfer: Wireless
Sensor Operation Temperature: -10°C to +60°C
Sensor Storage Temperature: -20 °C to +70 °C
Environmental Conditions: IP 67
Sensor Dimensions: ~66mm x 100mm x 140mm
Sensor Weight: ~400 g
Part Number: C01-100-Z000
NATO Stock Number: 6910270657437

MERGEN-TIM system consists of 5 ea. MERGEN TIM sensor units, 1 ea. trainer tablet with KUTAD (Trainee Tracking and Evaluation) software, charging adapter kit for sensors, USB wireless transfer unit and operational manual in a hard carrying case.