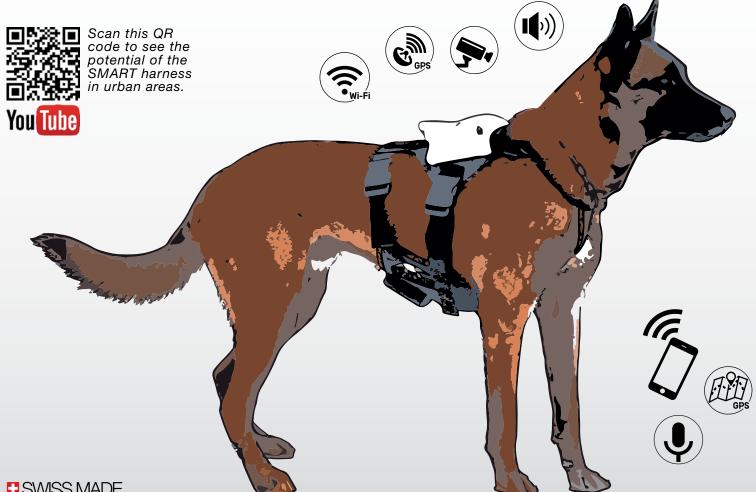


# SMART MD

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SWISS MADE

FRVIEV

## THE NEW SOLUTION FOR MINE DETECTION DOGS

## FREE-RUNNING & VOICE-GUIDED

Developed in collaboration with the Geneva International Center for Humanitarian Demining (GICHD)

## **ACCESS & YIELD**

Free-running mine detection dogs can cover vast areas even on rough terrain and with dense vegetation.

## **COLLECTED & STORED DATA**

The dog's position and the area covered are collected in real time and stored in a consolidated database for analysis.

## **MICROPHONE & LOUDSPEAKER**

The built-in audio system allows the handler to give commands to the dog in real time through a simple smartphone.

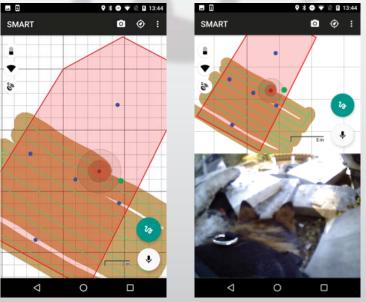
## LIVE VIDEO FEED

The camera on the harness captures the live feed and acts as a Quality Assurance tool (QA).



# **SOFTWARE INTEGRATION & EFFICIENCY** FOR ACCELERATED LAND RELEASE







On the smartphone, the handler monitors the map, the live camera feed and relevant statistics, all in real time. The built-in wireless transmitter allows the communication and exchange of data between the harness and a smartphone.

Once the work is completed, an IMSMA\* compatible report can be easily generated. The effectiveness of the SMART system is proven by this systematic integration of all recorded informations in a centralized database.

\*IMSMA (Information Management System for Mine Action): information management tool aiming to supply decision-makers with appropriate information regarding field action, standards, guides, good practice, etc. The system was developed by the GICHD and helps operational planning by gathering information from all parties involved in mine action.

The SMART system allows handlers to get rid of the leash - the major obstacle to the huge potential of dogs in explosive detection. With the equipped GPS and audio system, dogs can operate at a distance of up to 100 meters in medium vegetation.





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## **COST EFFECTIVENESS & SAVINGS** BY REDUCINGS EXCESSIVE USE OF CLEARANCE RESSOURCES

With the new SMART system, procedures involving lengthy and expensive ground preparations to enable access to an area for a dog are no longer compulsory. The deployment of a free-running dog accelerates the search of large areas, permitting its use for technical surveys.

**OTHER POTENTIAL USES:** SEARCH & RESCUE OPERATIONS



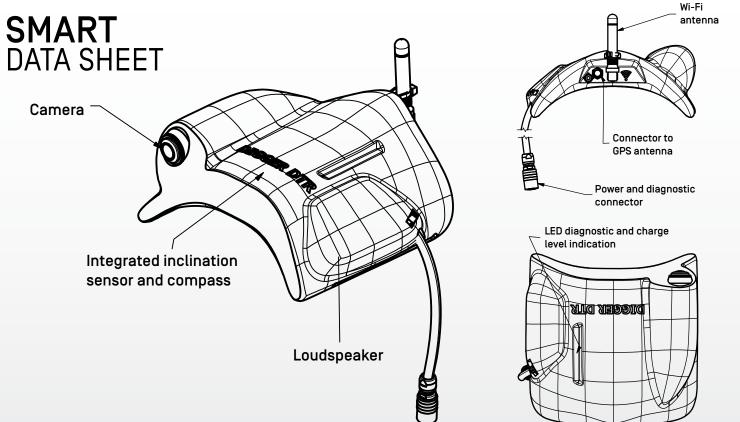
## WHAT'S IN THE BOX ONE SET INCLUDES:

- 2 HARNESSES EQUIPPED WITH THE SMART SYSTEM
- 4 HARNESS ACCUMULATORS SETS
- 2 ANDROID SMARTPHONES
- 2 EARPIECES
- 1 LAPTOP ACTING AS THE SERVER
- 1 WI-FI RUGGED ACCESS
  POINT
- 1 WI-FI ANTENNA
- 2 WI-FI ACCESS POINT ACCUMULATORS
- 2 INSTRUCTION MANUALS

One set comes in three highly resistant cases.







## **PHYSICAL DATA**

Weight (with harness) Harness Material Casing Material Harness size 900 grams Cordura ® Flexible Polyurethane Base harness for belgian shepherd [Malinois], fully adjustable Other sizes on request

### CAMERA

Sensor Sensor power consumption Resolution Lens

## (Malinois), fully adjustable Other sizes on request CMOS Low, 0.12 W 640x480 @ 60 fps Wide angle 163° diagonal Hard coating

Anti-fog

H.264

## COMMUNICATION

Wi-Fi GPS network GPS accuracy

Communication range

### BATTERY

Type

Autonomy Number of battery packs Charging time Protection IEEE 802.11a/b/g/n GPS and GLONASS Standalone mode: 5 m PPP/DGPS mode: 1 m Line of sight: 150 m Dense vegetation: 70 m

C

Interchangeable 2 cells Li-Ion battery pack 4 hours 2 2 hours to 90% charge Rugged and waterproof PUR enclosure (IP65 standard)

### SOFTWARE

Streaming format

Digger Operation Management Environment (DOME) DOME Android client Database and operation management tool capable of storing data from multiple dogs simultaneously [included] Information and statistics on the dog, area covered, etc. [included]

# DIGGER DTR IS A SWISS-BASED FIRM OFFERING TECHNOLOGICAL AND INNOVATIVE SUPPORT FOR HUMANITARIAN DEMINING AND CIVIL APPLICATIONS.

- FOUNDED IN 1998
- → SOLE NON-PROFIT DEMINING MACHINE MANUFACTURER
- → FIELD EXPERIENCE IN MORE THAN 15 COUNTRIES IN THE HARSHEST CONDITIONS
- → RIGOROUS FOLLOW-UP ON PROJECTS WITH TECHNICAL SUPPORT
- → DEVELOPMENT OF INNOVATIVE SOLUTIONS FOR POST-CONFLICT EXPLOSIVE CLEARANCE
- UNIQUE KNOW-HOW AND SWISS QUALITY
- CAPACITY BUILDING AND KNOWLEDGE TRANSFER TO LOCAL OPERATORS, GUARANTEEING MAXIMUM INDEPENDANCE

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