

# Files description and ground-truth measurements

The dataset is composed by a set of .zip files, containing the scans, separate for each scanning modality. Screenshots obtained from the scans are included in *screenshots.zip* file. Corresponding 2D photos are included in *photos.zip* file. Below we present the contents of the files and ground-truth measurements for the included structures and objects.

## Room

The entire room was scanned with a FARO Focus M70. The corresponding scan is included in *focus.zip* file.

Measurements of the scene using a digital meter are shown below (in meters). The height of the room is annotated in yellow.



## Objects

Relevant objects of the scene were scanned by the rest modalities. Separate .zip files contain all the scans that were acquired from a specific modality.

file name	modality
<i>freestyle.zip</i>	FARO Freestyle 3DX
<i>photogrammetry.zip</i>	DSLR and Pix4D photogrammetry software
<i>RGBD.zip</i>	RGB-D scanner based on Asus XTION
<i>TRNIO.zip</i>	iPhone 12 Pro Max and Trnio 3D Scanner application

Ground truth measurements of the objects are presented below.

### Bomb tools

#### *small screw*

- Height: **106.0mm**
- Body diameter (on spiral): **7.7mm**
- Head diameter (edge to edge): **12.89mm**

#### *big screw*

- Height: **107.16mm**
- Body diameter (on spiral): **11.73mm**
- Head diameter (edge to edge): **18.75mm**

#### *paper tape*

- Outer diameter: **105.74mm**
- Inner diameter: **76.07mm**

#### *paper box*

- Length (longest side when looking at the top of the box): **95.32mm**
- Width (shorter side when looking at the top of the box): **60.79mm**
- Height (side perpendicular to the length and width): **~144.94mm**

#### *plastic bottle*

- Length (longest side when looking at the top): **91.65mm**
- Width (shorter side when looking at the top): **68.05mm**
- Height (side perpendicular to the length and width, including cap): **119.20mm**
- Cap diameter (top): **37mm**
- Cap diameter (bottom): **41.15mm**

### Mobile phone

Size conventions according to: <https://consumer.huawei.com/levant/phones/p30/specs/>

- Width (shorter side when facing the phone): **58.05mm**

- Height (longer side when facing the phone): **116.24mm**
- Depth (screen level to back of the phone): **13.70mm**
- Reported from manufacturer (Motorola xt311): **116.5 x 58 x 13.5 mm**

## Tablet

Size conventions as in mobile phone

- Width (shorter side when facing the tablet): **134.67**
- Height (longer side when facing the tablet): **~203mm**
- Depth (screen level to back of the tablet): **6.34 mm**
- Reported from manufacturer (iPad mini 2019): **203.2 x 134.8 x 6.1 m**

Noticeboard / propaganda\_magazines

### Magazines

- Not measured , A4 size: 210 x 297mm

Table / leaflets

### Leaflets

- Not measured , A4 size: 210 x 297mm

### Table (surface only)

- Width (longer side when viewing the table from the top): **1.80m**
- Height (shorter side when viewing the table from the top): **0.80m**
- Depth (thickness of the surface): **38.0mm**

Dead body

- Lips length: **50.55mm**
- Diameter of shirt button: **11.75mm**
- Shoe
  - Measured: **32 cm**
  - Reported by manufacturer: **EU: 46 / 31 cm**

## Combined scans

A combination of the scans from FARO Focus M70 and FARO Freestyle 3DX modalities is included in *merged\_focus\_freestyle.zip* file. The registration was achieved using FARO Scene software.