

## SPECIFICATION DOCUMENT

### Product Description:

- ARTEC Leo 3D Scanner or equal

System must have Wi Fi/ Ethernet video streaming to external device Display / touchscreen

System must have embedded processors (Multi core processing)

WiFi, Ethernet, SD card interface

System must have an internal hard drive

Must supported OS

Output formats OBJ, PLY, WRL, STL, AOP, ASCII, PTX, E57, XYZRGB

Output format for measurements CSV, DXF, XML

System must have In-built exchangeable battery

System must measure not bigger than 228 X 165 X 229 mm

Working distance 0.35 – 1.2 m

Volume capture zone 173 000 cm<sub>3</sub>

Linear field of view, H × W @ closest range 246 × 153 mm

Linear field of view, H × W @ furthest range 843 × 527 mm

Angular field of view, H × W 38.5 × 23°

3D resolution, up to 0.25 mm

3D point accuracy, up to 0.1 mm

3D accuracy over distance, up to 0.03 % over 100 cm

System must have the ability to capture texture

Texture resolution 2.3mp

Colors 24bpp

3D reconstruction rate, up to 80fps

Data acquisition speed, up to 4 million points/s

3D exposure time .0002 s

2D exposure time .0002 s

3D light source VCSEL

2D light source White 12 LED array

Position sensors Built in 9 DoF internal system