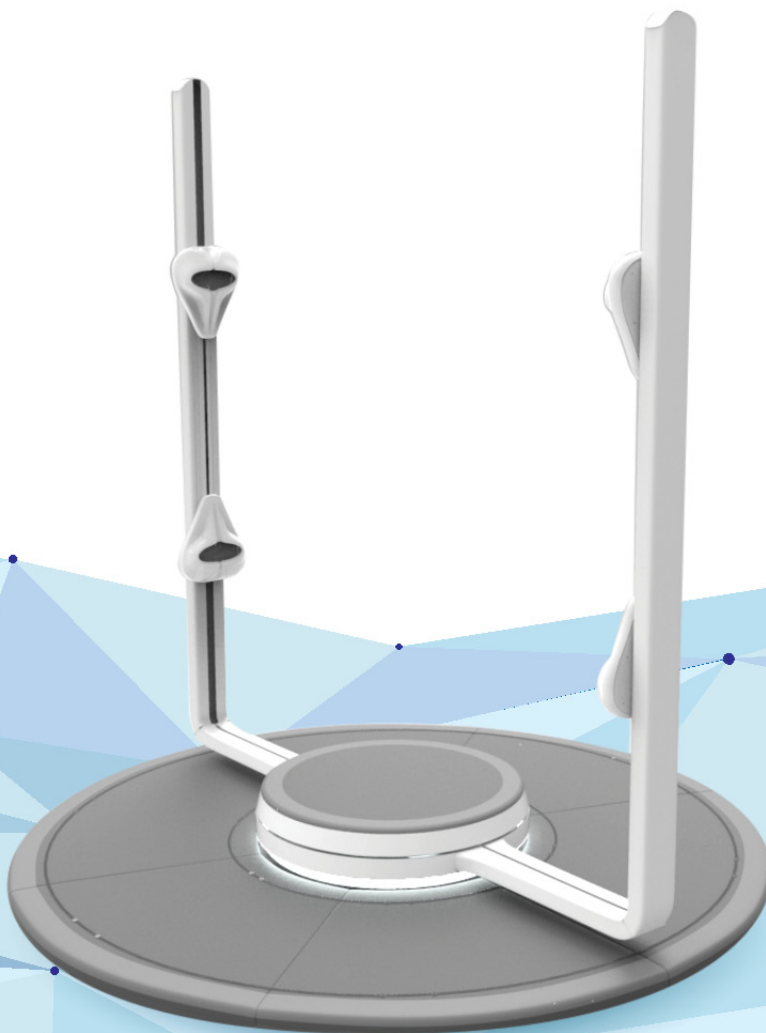# TEXEL

PORTAL
3D SCANNER

Fully automated solution for color 3D scanning of people and large objects with instant visualization and 3D printing preparation

Texel, Inc. is a software developer and manufacturer of professional 3D scanners for creating 3D models of people and large objects.

Texel, Inc. is a highly skilled multidisciplinary team of experts, aimed at automating the process of 3D models preparation for printing on a professional level.

Description of products and services

Texel Portal is a device with U.S. patent pending, designed for scanning large objects in full-color with automatic processing, visualization and preparation of 3D models for production.

Business model: scan it, print it, sell it!

Texel Portal can be used as a high-speed scanner providing highly detailed geometry and texture with an excellent color rendering which allows to capture 3D model of a human body.

Texel Portal fully automates the following processes:

1. scanning;

2. data processing;

3. building of 3D model;

4. preparation of 3D model for printing.

An integrated approach allows a high degree of reliability, operational efficiency and predictability of company's key business processes.

The scanner allows to produce and sell hundreds of high quality personalized 3D figurines each month.
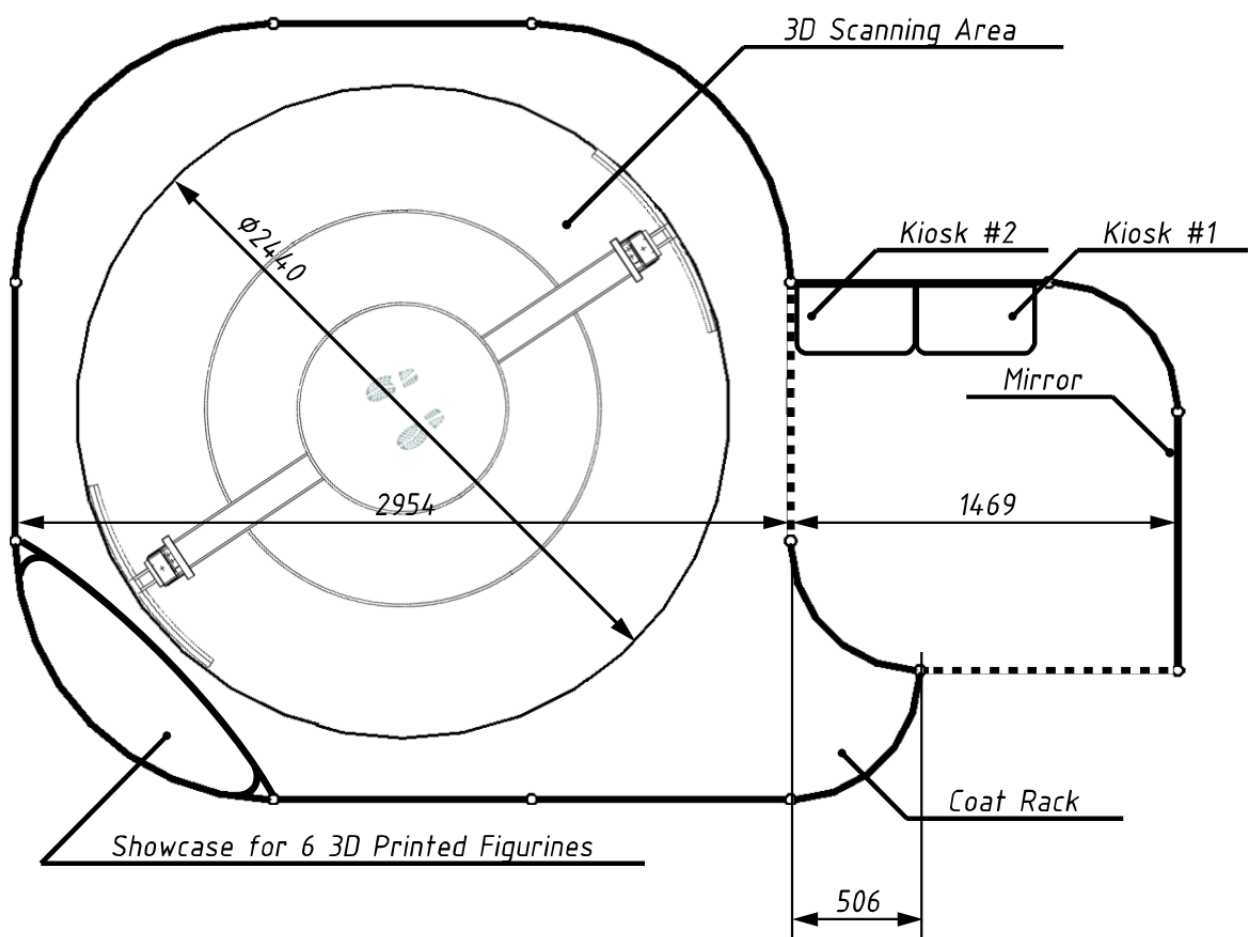
Scanner characteristics:

• one scan takes 30 seconds;

• a ready-to-view highly-detailed 3D model with a high-quality texture is automatically created in 2 minutes;

• the customer decides whether to print the current model or to rescan, thus solving the problem of non-compliance of the final product to the customer's expectations.

Texel Portal is ideal for places with high traffic. It is attracting new customers and increases the amount of returning clients.
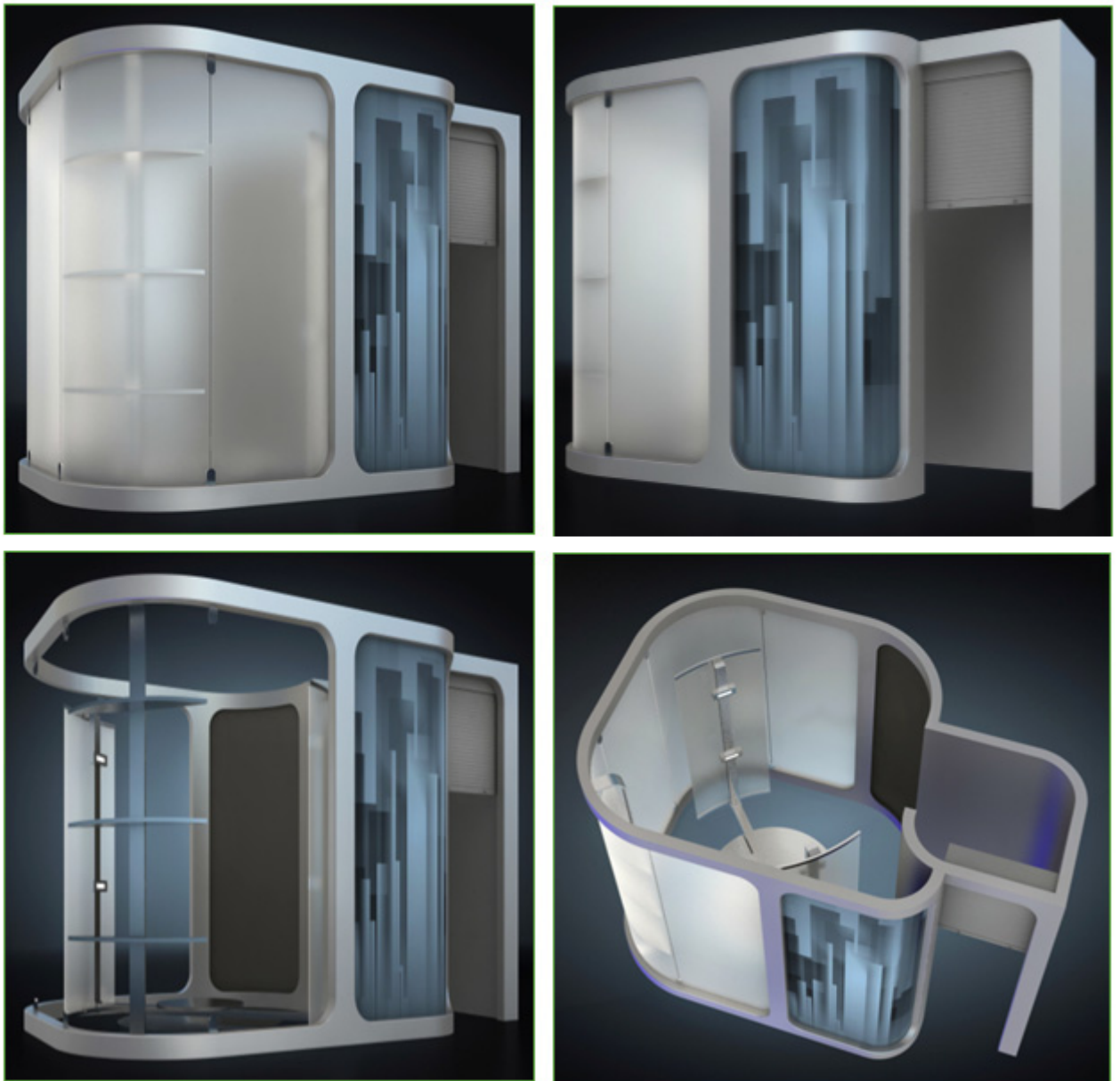
The scanner is compact and can be quickly and easily disassembled and transported to any location such as a shopping mall, theme park or a special event (ComicCon, anime festival, etc.) in order to maximize the number of clients and increase sales.
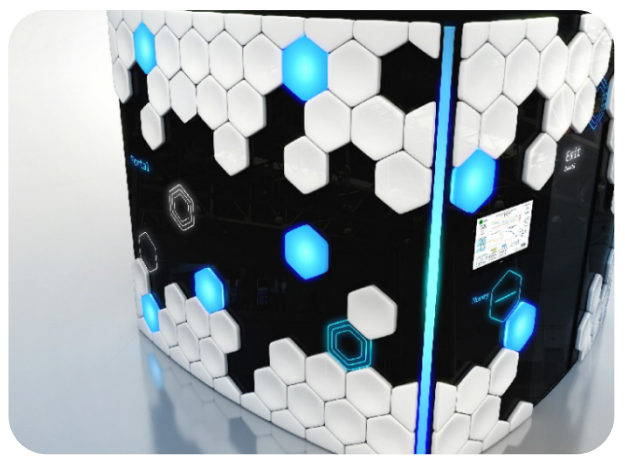
Designs and booth layout options

Design #1

The following designs are not included into the price quote provided by Texel. These sold separately and can be produced using Texel's blueprints.

Design #2

Technical characteristics

Name	Value
Dimensions of 3D scanner	d = 2250 mm, h = 2480 mm
Scanning area	d = 1200 mm, h = 2200 mm
Scan time	30 seconds
Preparation time to display 3D model	1 to 3 minutes, depending on quality settings
Time to prepare a model for 3D printing	2 minutes
Turnover	17 to 40 people per hour
Frame rotation speed	0.05 rev/sec
Power consumption	600 to 700 W
3D model formats	OBJ, VRML, PLY, STL
3D model texture precision	1 mm
Software	Own software, U.S. patent pending

Texel Portal can be equipped with any 3D sensors. The proposed configuration has four PrimeSense (Microsoft Kinect) sensors, so it has no problems scanning complex hairstyles, dark or shiny objects, but as with almost all modern sensors you cannot scan transparent, mirrored or very thin objects.

Video

TEXEL PORTAL

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