

# Facets®

## Real-Time 3D Models

### Models . . . for Grownups

Planes, Trains, and Automobiles . . . and Tanks, Ships, and Jets. Quantum3D's Facets library contains over 900 unique models from 51 model categories. Change the level of detail, modify textures, modify the models for damage, and more. The bottom line is simple: Facets enables any model, with any conceivable configuration and level of detail, to be instantly incorporated into a customer's image generator.

### Affordable & Unlimited Flexibility

Facets real-time 3D models provide the ultimate in flexibility and affordability. Models have multiple levels of detail, texturing options, damaged/destroyed states, articulated parts, animations, paint schemes, tri-resolution textures, and a synthetic infrared sensor scheme.

No other model collection offers so much detail and so many options per individual model.

### Multiple Schemes Per Model

With Quantum3D's Facets, any model can be custom-tailored to meet a customer's unique needs. But, our models come standard with several standard options, such as color schemes and levels of detail.

For example, consider colors: Ground vehicles might have the option for dark tan, light tan, jungle camouflage, desert camouflage, or olive drab.

And, each model comes standard with multiple levels of detail – 50 polygons, 250 polygons, 1200 polygons, 4000 polygons. This ensures the level of detail required for each scene's required realism.

```
#include<dos.h>
#include<stdlib.h>
#include<stdio.h>
class lines
{
private:
    int length,x1,y1,x2,y2,x,y,dx,dy,wx,wy,w,width;
public:
    lines(); //Constructor
    void showline();
    int sign(int);
};
```



### Features / Benefits of Facets

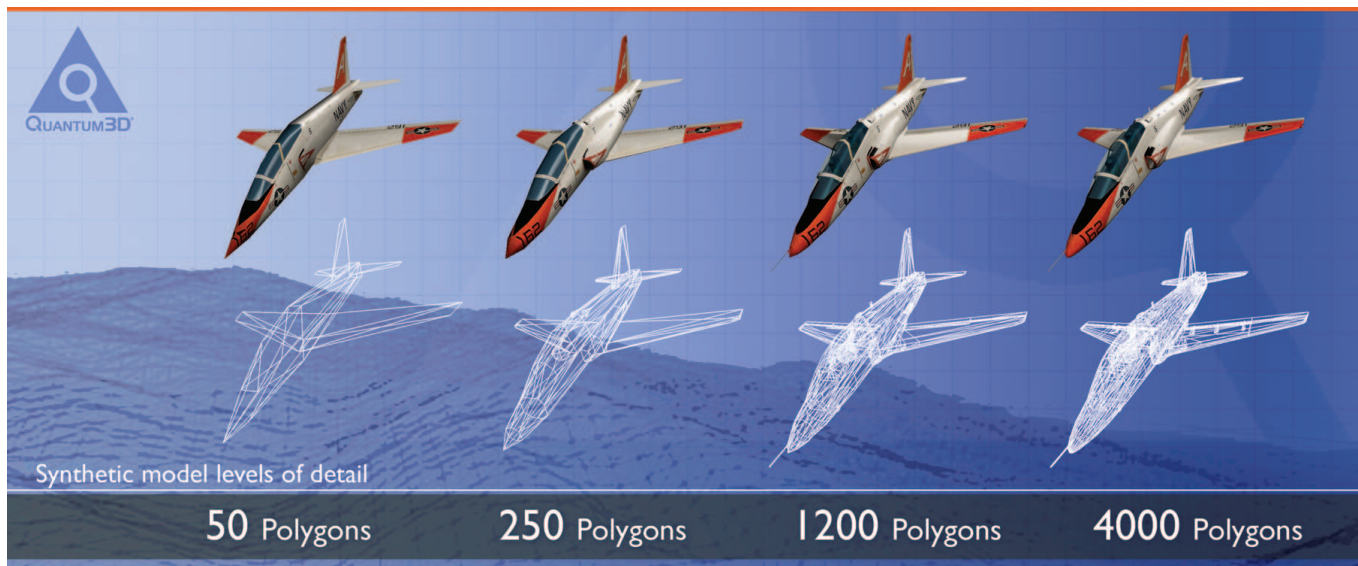
- **Sensor Simulation** – All real-time models are available with material classified maps (MCMs) that provide added detail for users who have their own sensor simulation rendering software and image generators. Quantum3D customers using Independence image generators have even more options.
- **Formats** – Facets models are delivered in industry-standard formats, making them off-the-shelf ready. They are available in MultiGen Open-Flight, VTree, 3Dstudio Max, CTDB, Medallion-S, and COLLADA formats.
- **Material Classified Textures** – Each visual RGB texture is assigned multiple later material systems, providing relevant reflectance, emittance, and thermal data.
- **Licenses and Customization** – Though Facets models may not be redistributed on a standalone basis, developers are free to create an unlimited number of graphics applications that incorporate Facets models and to distribute those applications in unlimited numbers. Additionally, if customized Facets models are required, Quantum3D can deliver.

## Facets Offers Multiple Paint Schemes

Facets Models are available in multiple paint schemes for the same models; olive drab, snow and desert cammo are standard for most models.



## Facets Offers Multiple Levels of Detail



## Facets Offers Country-Specific Representations

Facets Models are available in country-specific markings and paint configurations. The images below show a standard F-16 model in multiple configurations



F-16D Israeli Fighter



KF-16C Korean Fighter



F-16D Singapore Fighter

