A C.G.Station Family Product

RenderStudio

Version 1.01 User's Guide Part I Overview Tutorial

STUDIO PON November 1994

RenderStudio 1.01 by STUDIO PON

User's Guide Part I

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RenderStudio 1.01 for WindowsTM

User Guide Version 1.01, November 1994 Part Number: REN101DOC

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This user guide explains how to set up and use the RenderStudio software under the MS-Windows 3.1 English environment. This manual is written that you already know how to use MS-Windows and a personal computer. If you do not know how to use MS-Windows, please read manuals for MS-Windows before you start RenderStudio. To read/print this file, you need to set the display as VGA(16 colors).

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1. What's new?

Welcome to RenderStudio version 1.01 for Windows(tm).

The new **PRJ**(proprietary format) file of **RenderStudio** is not backward compatible with the old **PRJ** file of **ModelStudio**.

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2. Overview

Welcome to RenderStudio version 1.01 for Windows(tm).

RenderStudio is the rendering utility for **PRJ**(the original file format for both **ModelStudio** and **RenderStudio**) file, which is created by **ModelStudio**. You can also export scenes as files, POV-Ray(tm) format, to exchange the generated 3-D polygon data into other 3-D modeling or rendering applications. In addition, RenderStudio can save rendered 2-D bitmap files as DIB(Device Independent Bitmap) and TGA(Targa) in 24-bit(16.7 million colors).

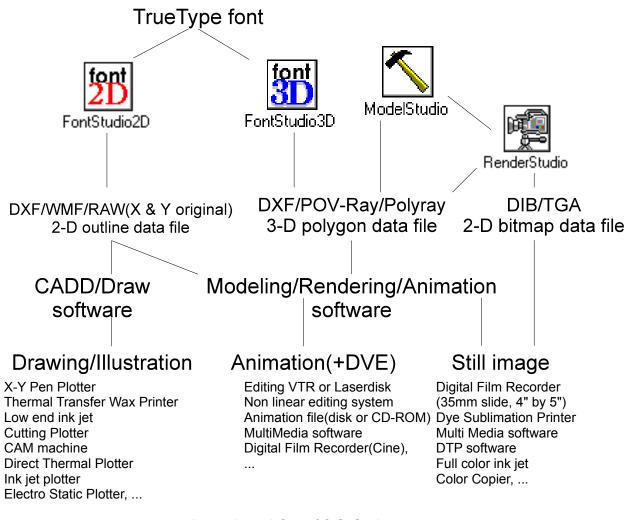
RenderStudio is very easy to learn and use.

To use **RenderStudio**, you need to have **ModelStudio**, an appropriate PC and DOS/MS-Windows 3.1(English) or higher. We recommend to keep enough free disk space on your hard disk.

To use DIB, TGA or other files of **RenderStudio** on other platforms, for instance on the Macintosh(TM) or Indigo(TM), please convert your file from MS-DOS file format into an appropriate file format for your destination.

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2-1 Sample work flow



<u>A sample work flow of C.G. Station</u> (Note: ModelStudio and RenderStudio do not export Polyray.)

FontStudio2D is a 2-D outline generator from TrueType(tm).

FontStudio3D is a 3-D font generator that loads TrueType(tm) font, and extrudes them into 3-D polygon data. Then, you need to use a 3-D modeling program and/or rendering/animation program to get photo realistic image/animation. If your 3-D modeling program has different coordinate system, you can exchange or reverse specified axis. For instance, you need to reverse Z axis for POV-Ray. When you beveled edge in the front face only, your beveled edge should be back side without reversing Z axis.

ModelStudio is a collection of 3-D modeling tools. To composite data from both FontStudio3D and ModelStudio3D, you need to composite in a text editor or rendering/animation program, such as POV-Ray, 3D Studio(TM), ...

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RenderStudio is a rendering utility for **ModelStudio**. This utility is also a very useful tool as a scene editor for POV-Ray.

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3. Installing RenderStudio

Installing **RenderStudio** is easy.

You need to copy **RENDER.EXE** program module onto your hard disk, create new group and new item in Program Manager, and enter the serial number and the verify number in **RenderStudio**. Until you enter the serial number and the verification number with the registered user name(and company name, if applicable), the registration reminder dialog will be displayed, and you can not save at all.

To use **RenderStudio**, you need to have **ModelStudio**, an appropriate PC and DOS/MS-Windows 3.1(English) or higher. We will recommend to keep enough free disk space on your hard disk while you are using.

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To install **RenderStudio** on your hard disk drive:

1) Copy **RENDER.EXE** file and other files onto your hard disk. We recommend to create a dedicated directory for **RenderStudio** before starting installation. (Example: C:\PON\REN101)

2) Under the **Program Manager** of Windows, create new group and new item using **FILE/NEW** menu.

(Example:	Group name:	STUDIO PON
	Program name:	RenderStudio 1.01)

Note: If you can not understand the above two steps, please read your MS-Windows manual.

3) Double click RenderStudio icon.

The registration reminder dialog is displayed.

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4) Click **Register...** button. *Registration dialog is displayed.*

5) Enter User Name, Company(if applicable. In the case of no company name, please enter User Name again.) name, Serial# and Verification#, then click OK button.

Note: You must use exactly same **User Name** and **Company** name when you ordered. Your **serial number** and **verification number** with the registered user name and company name should be on the mail via CompuServe or regular mail from STUDIO PON. These two items are case sensitive. When you got an error message, please check your **User Name**, **Company**, **Serial#** and

Verification#. And, please check the version of your **RenderStudio**. <u>STUDIO PON will not</u> support foreign language DOS and/or Windows. Please use MS-Windows 3.1 in English.

Now, the installation procedure is done completely. Please enjoy to use **RenderStudio**.

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4. Tutorial

This tutorial consists of four lessons:

- 4-1. Lesson 1 Launching RenderStudio
- 4-2. Lesson 2 Place a light, and shade first time
- 4-3. Lesson 3 Changing the camera and the target position
- 4-4. Lesson 4 Assigning materials
- 4-5. Lesson 5 Save a rendered image

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4-1. Lesson 1 Launching RenderStudio

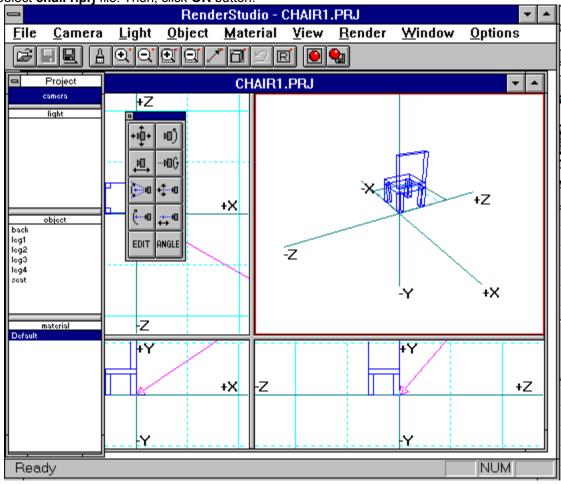
To start **RenderStudio** program module, you just double click **RenderStudio** icon in the group, which you created new item in **Program Manager** at Chapter 3.

Note: If you did not register, the registration reminder dialog should be displayed on this main window. You need to enter registration information(**User name**, **Company name**, **Serial number** and **verification number** after you read Chapter 3 carefully.

The Fle Open window is displayed.

You need to select a project file(.PRJ) which is created by ModelStudio.

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Select chair1.prj file. Then, click OK button.

Menu Bar:

It is at the second from the top of the screen and includes nine categories.

Tool Bar:

There are fourteen icons under the Menu bar.

Status Bar:

It is at the bottom of the screen and displays information about commands.

Project Palette:

It is a floating style palette, including four functions(camera, light, objects and material). **Sub Palette:**

It is a floating style palette to assist **Project Palette**.

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4-2. Lesson 2 Place a light, and shade first time

In this lesson, you will learn how to add a light.

- 1. Click light in the Project Palette.
- 2. Select NEW icon in the Sub Palette.

The Light Parameters window is displayed.

3. Click OK button, using these default parameters.

Note: Without light in a scene, you can not see objects. This is also true in the real world. Before starting rendering, you must have a light.

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4. Select **Render** icon. *A rendered image is displayed in the upper right window. This is your first rendered image using RenderStudio.*

When you want to resize Camera view size, you can drag the center of four views.

When you want to resize Camera view size horizontally or vertically, you can drag the border between Camera view and another.

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4-3. Lesson 3 Changing the camera and the target position In this lesson, you will learn how to control the camera and the target position.

- 1. Click camera in the Project Palette.
- The **Sub Palette** for camera is displayed.
- 2. Select Move Camera icon in the Sub Palette.

3. Move camera(drag a red rectangle) position in the top view.

Set the view like the above figure.

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4. Select Render icon.

You will get a rendered image.

It is bit dark. Because the light is at back side of the chair. Now you need to move the light. When you get a message "UNREGISTERED COPY", you are not using registered copy. Please register!

- 5. Click light in the Project Palette.
- 6. Select Move Active Light icon in the Sub Palette.
- 7. Move light(drag a green circle) position in the top view.

8. Select Render icon.

You will get a rendered image.

It looks a good image. Because the light is at the same side of the camera.

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4-4. Lesson 4 Assigning materials

In this section, you will learn how to assign materials(colors) onto objects. The all new objects are assigned the default material(Red 1, Green: 1, Blue: 1). Let's create new material.

1. Click New icon in the Sub Palette.

Edit Material window is displayed.

- 2. Enter Red in Name fileld.
- **3.** Set three RGB value like below. Then, click **OK** button.

New material, Red is added in the material.

4. Select object window. Then, click Select All icon.

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5. Click Assign Material icon.

The selected objects and available materials are displayed.

6. While pressing SHIFT key, click all object names. Then, click Red. *Wood material is assigned to all objects.*

7. Select Exit button.

8. Select Render icon.

You will get a rendered image. The actual rendered image quality on your display is depending upon your graphics card and settings.

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4-5. Lesson 5 Save a rendered image

In this section, you will learn how to save your rendered image onto your hard disk as a 24-bit bitmap file.

 Turn on Grid Snap(1st in row2). The Render to File window is displayed.
Enter chair1.bmp in the File Name: filed. Then, click OK button. The Image Format window is displayed.
Click Go ! button. The rendered image is saved as a 24-bit DIB, the name is "chair1.bmp". To look the saved image, you need to use Paintbrush or other paint program of MS-Windows 3.1.

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