

NINEFEB

Technical Documentation

User guide

for

IPCv2

Andreas Seidl

andreas.seidl@ninefeb.com

Please Visit

www.ninefeb.com

User guide

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Interactive 3D Parts Catalog

IPCv2 merges your product (3D CAD-Data) and your product data from (PDM, BOM, SAP) to make it visually explorable for your customer.

- Get visual feedback of parts in the product
- Order parts of the product



This user guide gives you an overview of all functions of the demonstration app “IPCv2 Motorcycle”.

Download & Try IPCv2

When not already done, download the demonstration app

Download: <https://cloudlogin02.world4you.com/index.php/s/8UnW3q2FiIYdlg0>

Note: No installation and no admin rights are needed.

Read more on [Current requirements for the demonstration](#)

1 Interface

1.1 Startscreen

Press *START* to load the complete product or select a *Specific Assembly*.

Note: Doubleclick an assembly to open it!



FIGURE 1: : Overview: Startscreen

1.2 Interface in IPCv2

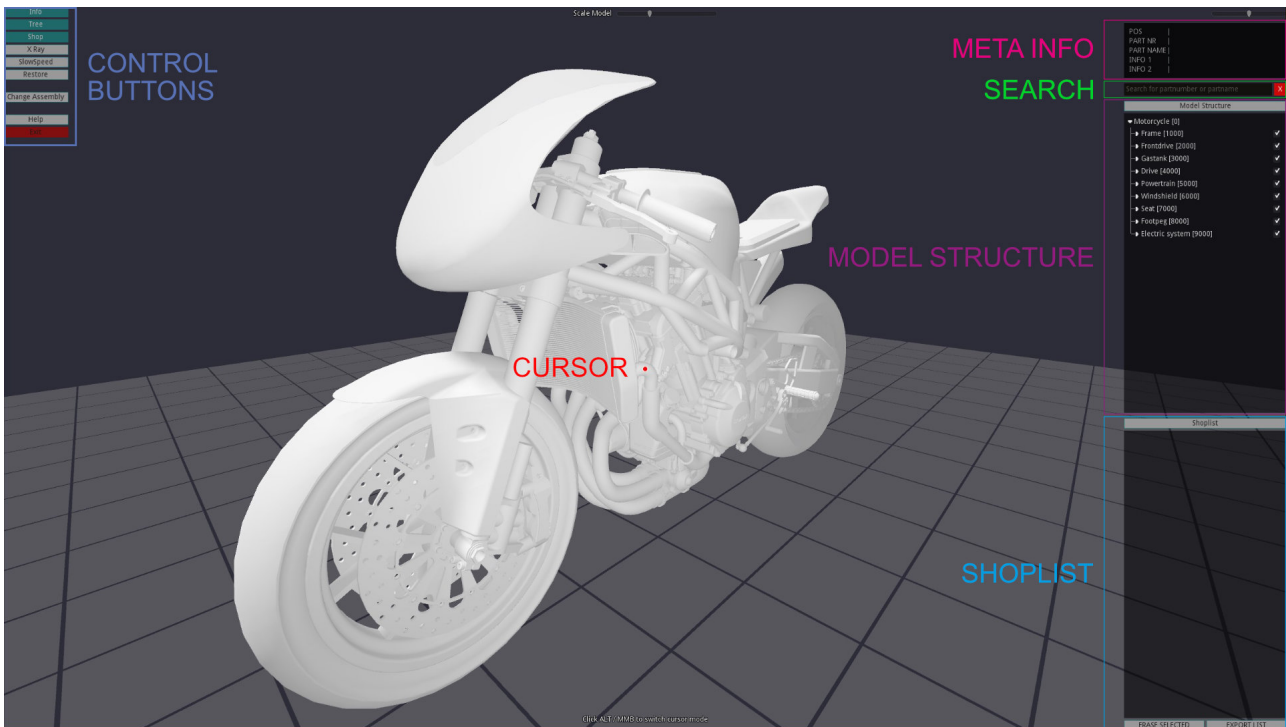


FIGURE 2: : Overview: Userinterface

- *Cursor*
- *Metainformation*
- *Search*
- *Control Buttons*
- *Model Structure*
- *Shoplist*

2 Interaction

2.1 Cursor

The cursor is the main interaction object in 3D Space. Select parts in 3D space or interact with the user interface.

2.1.1 Locked cursor

The cursor is fixed in the center of the application window, when you move through 3D space. Clicking *MMB* or *ALT* unlocks the cursor.

2.1.2 Unlocked cursor

When the cursor is unlocked, you can't move in 3D space. In this mode you are able to interact with [Control Buttons](#) and the 3D parts. To lock the cursor, use *MMB* or *ALT* again.

Note: When you don't know for what *MMB* or *ALT* stands for -> [Movement](#)

2.2 Metainformation

When a part is selected, the *meta info* overlay shows relevant information about it.

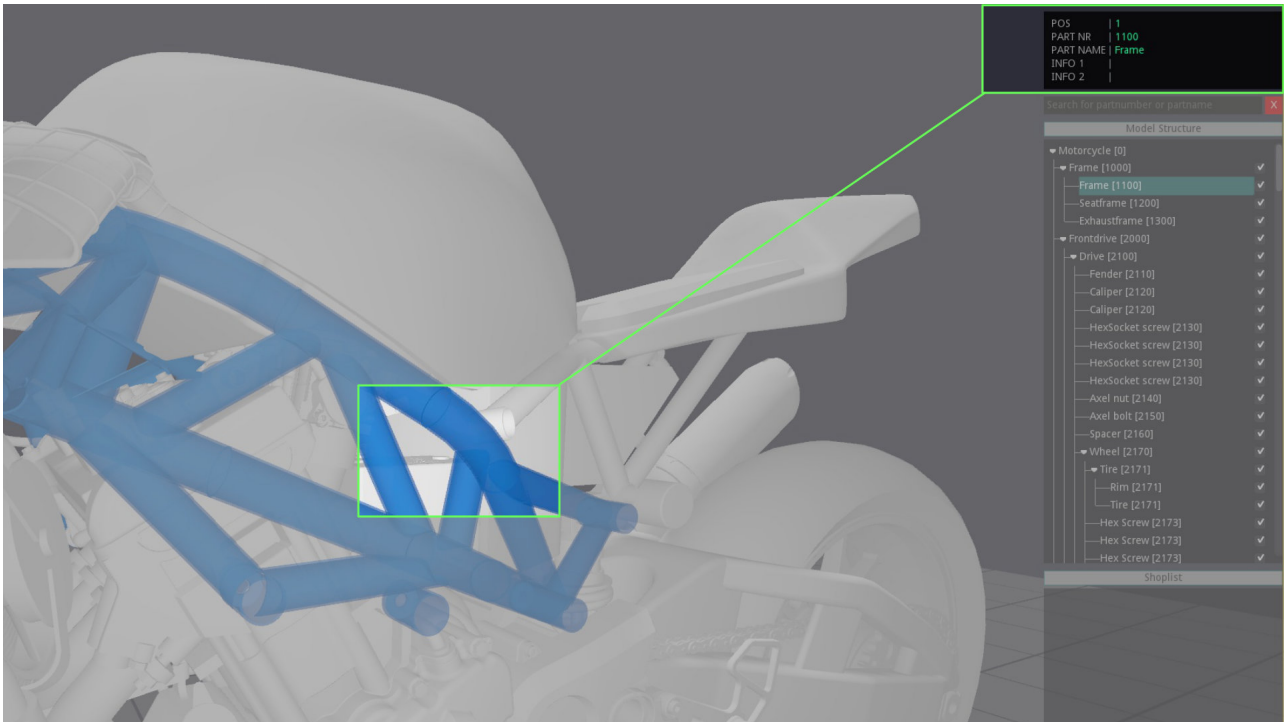


FIGURE 3: : Information about selected part

2.3 Search

Search for parts by type in the name or partnumber, *ESC* to cancel the search.

Note:

- Search is case-insensitiv
 - Search gives you results according to your input
 - *X-Ray* is automatically activated when searching, so you can see hidden parts
-

Selecting a result will select the associated part in *Model Structure*.



FIGURE 4: : Search for parts in action

2.4 Control Buttons

2.4.1 Appearance

You can see if a button is activated or deactivated by the buttons color.

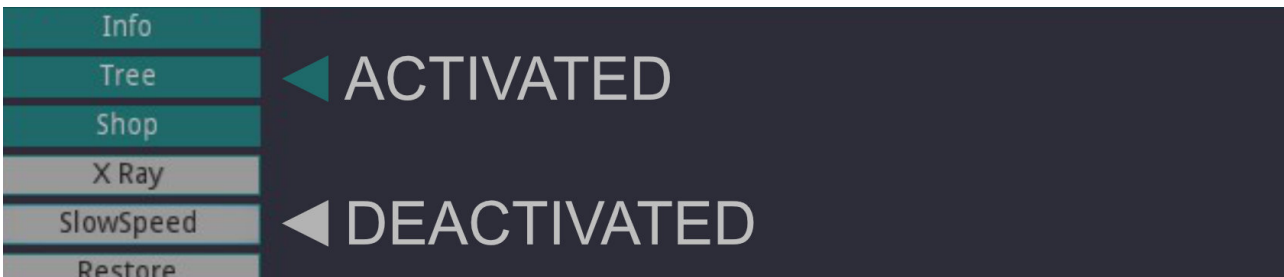


FIGURE 5: : Buttons activated or deactivated

2.4.2 Shortcuts

Buttons may have shortcuts, hovering the mouse over buttons shows you the current setting.

2.4.3 Buttons in detail

2.4.3.1 Info

Button to toggle *Metainformation* panel on/off.

2.4.3.2 Tree

Button to toggle *Model Structure* panel on/off.

2.4.3.3 Shop

Button to toggle *Shoplist* panel on/off.

2.4.3.4 X-Ray

When active, the selected part is visible although its covered by other parts.

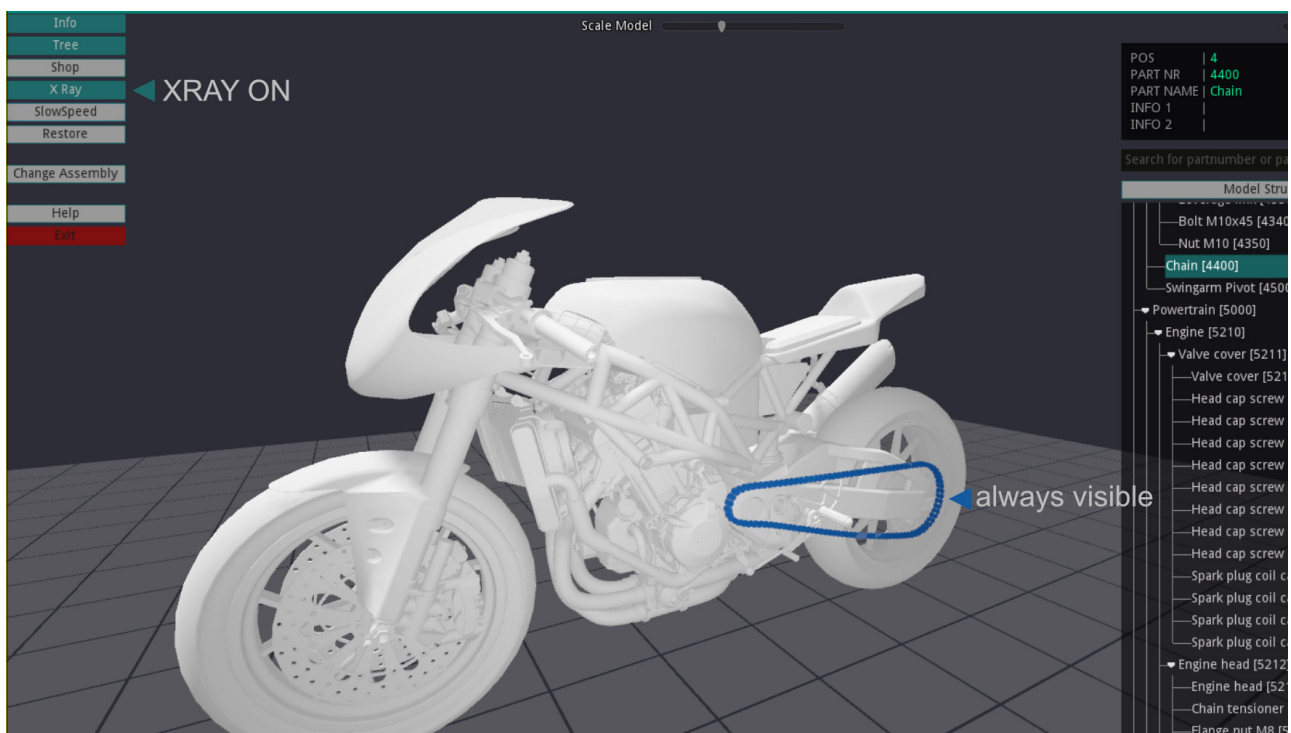


FIGURE 6: : X-Ray: ON/OFF

2.4.3.5 Restore

Restores all deactivated parts in 3D space.

2.4.3.6 Change Assembly

Brings you back to [Startscreen](#) to change the assembly.

2.4.3.7 Help

Opens this HTML help page.

2.4.3.8 Exit

Terminates the application.

2.5 Model Structure

Shows the parts and its referenced assemblies in a hierarchy tree. When selecting an entry, the selected part is visually highlighted in the tree and in the model.

Click on the top bar to collapse or uncollapse the tree items.

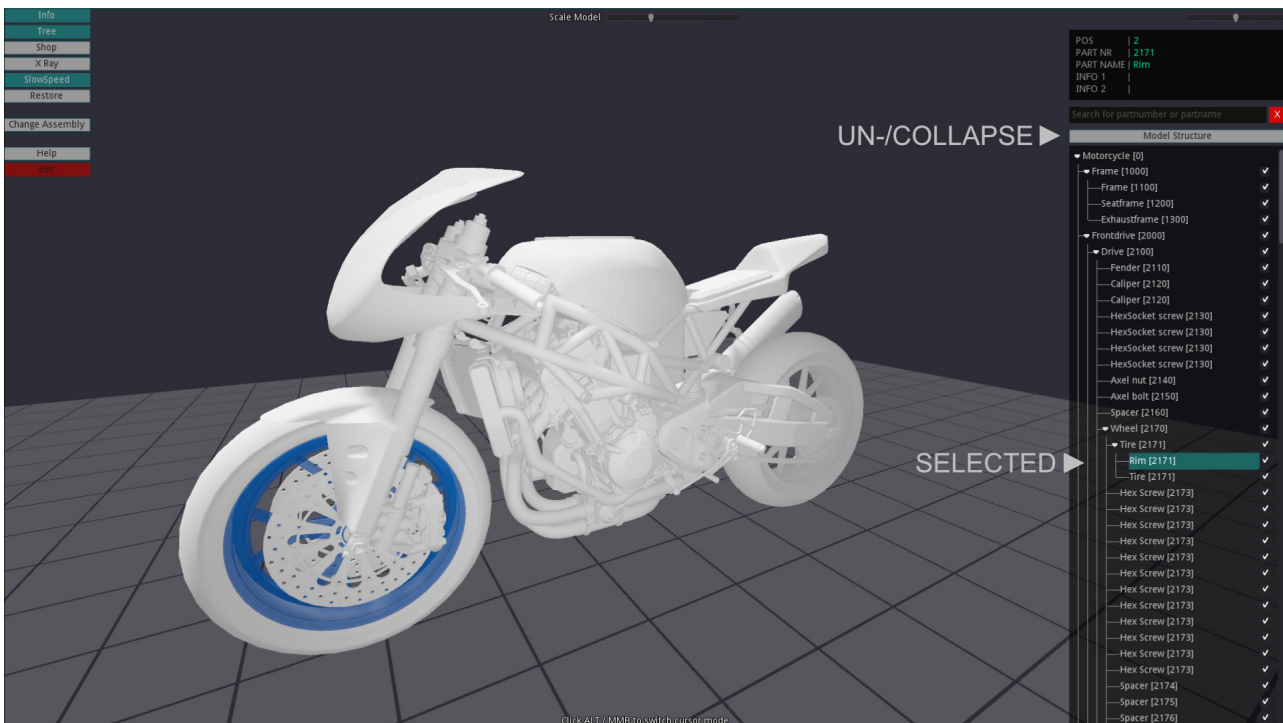


FIGURE 7: : Selected Part is highlighted in parts tree

2.5.1 Change part visibility

Change the visibility of parts by clicking the checkbox. Use [Restore](#) to activate all deactivated parts at once.

2.6 Shoplist

The application offers the ability to generate a individual list of parts.

ERASE SELECTED - Deletes the selected entry

EXPORT LIST - Export the list to your system. See [Export List](#)

2.6.1 Add parts to shoplist

When the *SHOP* is active the user is able to add the selected part with Key *B*. A dialog box opens and asks for quantity input (default: 1).

2.6.1.1 Quantity dialog box

Choose the quantity to order and click

ADD - Add item with quantity information to shoplist

CANCEL - Cancel the process

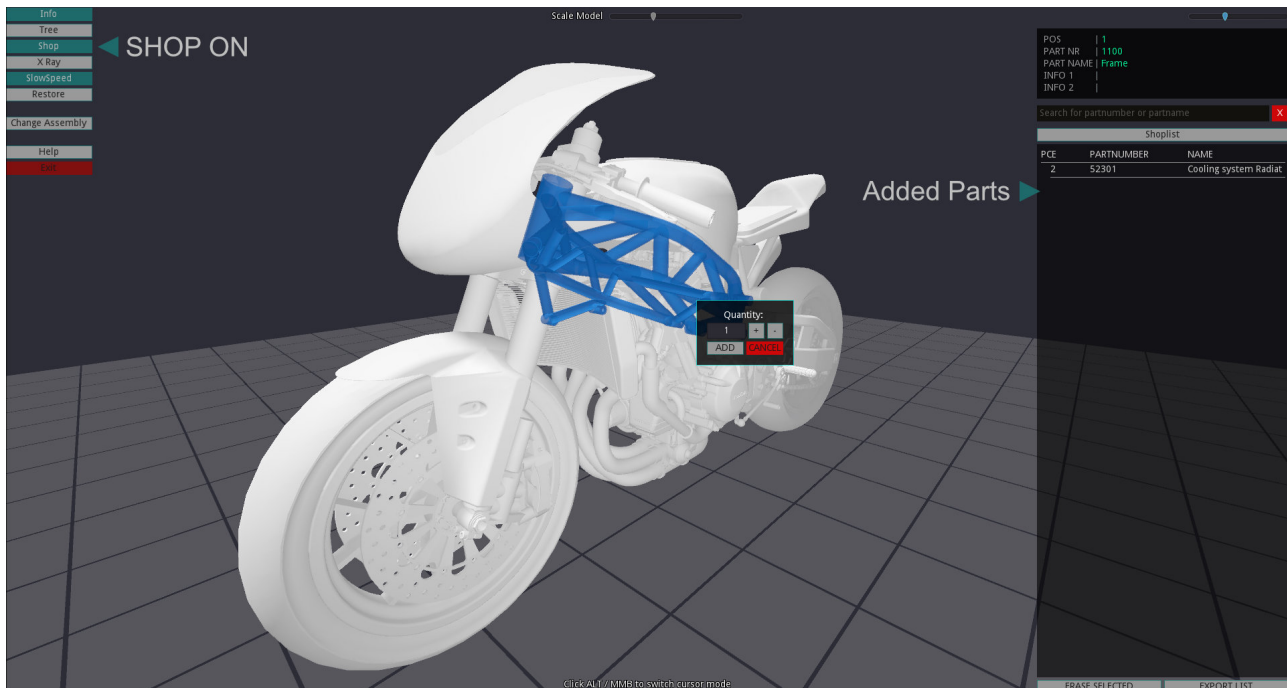


FIGURE 8: : Add parts to shoplist

Attention: When an already added part is added again, the old entry is overwritten with the new quantity setting!

2.6.2 Export List

The list is exported as CSV file with timestamp e.g.: *ipcv2_Motorcycle_20210430_113027.csv* to your machine.

Note: Path of CSV: C:\ipcv2_tempfolder\–projectname–\shoplist

Important: In-App shoplist is cleared after export!

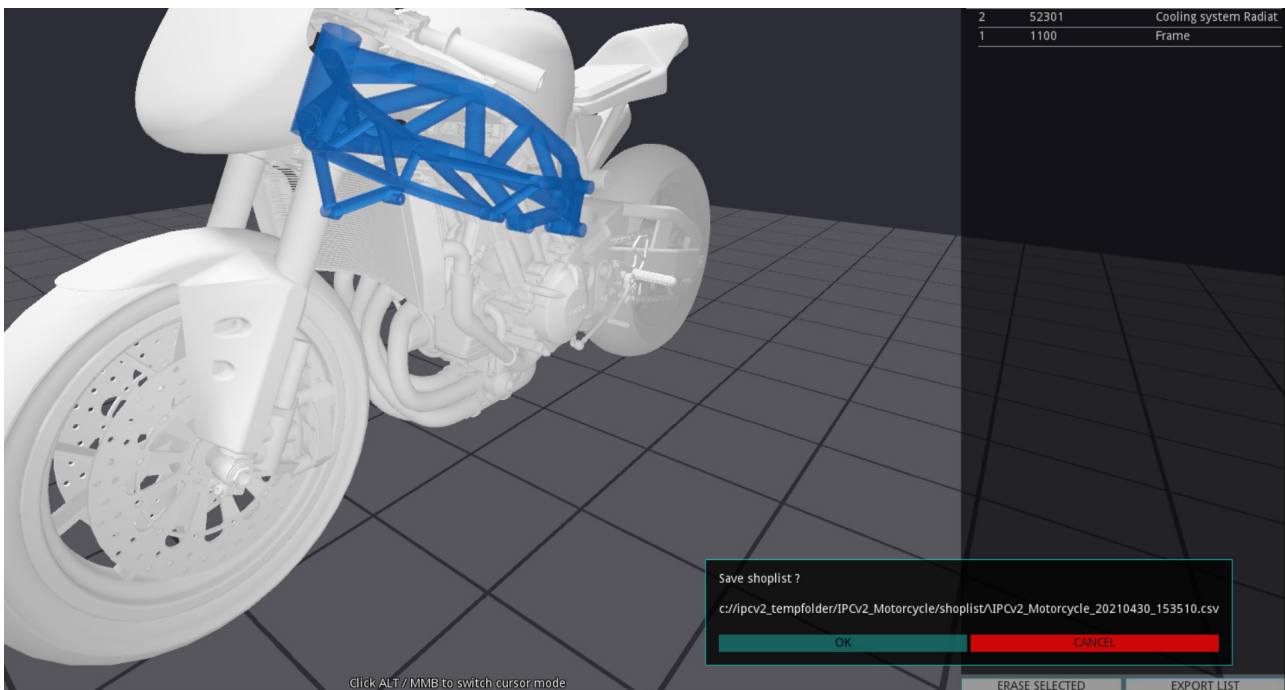


FIGURE 9: : Export the list

2.6.3 CSV result

TABLE 1: Shoplist

PARTNUMBER	PARTNAME	QUANTITY
1100	Frame	2
7100	Seat	1
2300	Suspension	1

3 Movement



FIGURE 10: : Overview: Keyboard and Mouse Control

4 Technical Information

4.1 Current requirements for the demonstration

- Windows 10, 64Bit
- 3D capability
- Keyboard + Mouse

4.2 Files saved to your disk

When starting the application first time it creates a folder to save some files (assembly data). After using the application you can delete these folders/files.

Note: Files location: C:\ipcv2_tempfolder

4.3 Start Errors

Windows SmartScreen “unkown publisher” issue

Attention: This is a unsigned EXE file and therefore windows may call Defender SmartScreen. Just click *More info* and then *Run anyway*.