



Operation guide

Installation Instructions

1. Log on to Windows with in an account with the administrator rights.
2. Please close them if there are other running applications.
3. When a **RebroViewer** installation media is put into the optical drive on a PC, the installer for 32-bit or 64-bit starts automatically according to the PC. Note: If the installer does not start, browse through the installation media with My Computer or Explorer and execute "RebroViewerInstaller.exe".
4. The necessary software (Microsoft DirectX, Microsoft .NET Framework 4.0, Microsoft Visual C++ 2012 Update 4 Redistributable Package) will be installed to start **RebroViewer**.
Note: In the user account control dialog, please select "allow to make changes".
5. Confirm the license agreement that appears and if you agree, select "I accept the terms in the license agreement" to left-click [Next].
Follow the on-screen instructions for installation.
6. When you start **RebroViewer** after completion of installation, the latest version will be checked on the Internet. If the latest version exists, a web updater will start.
Note: Select "allow to make changes" in the user account control dialog. Also, please allow communications for "RebroViewerUp.exe" if your security software interrupts Internet connections.

Uninstallation Instructions

Start [Start Menu]–[Control Panel]–[Program]–[Programs and Features].
Select [**RebroViewer**] and left-click [Uninstall].

Note: The setting file for each user remains on the computer so that it can be used even if RebroViewer is reinstalled. Delete the folders below when deleting the setting.

C: ¥User¥(Login user name)¥AppData¥Local¥NYK Systems¥RebroViewer LocalData

System requirements

OS: Microsoft Windows10, Windows8/8.1, Windows7 SP1, (64bit/32bit compatible)
Graphics boards: Graphics boards or on-board chips with which DirectX9 works comfortably
Display resolution: 1280×1024 (800) dots per inch or more
Internet connection environments: Required (for the web update)

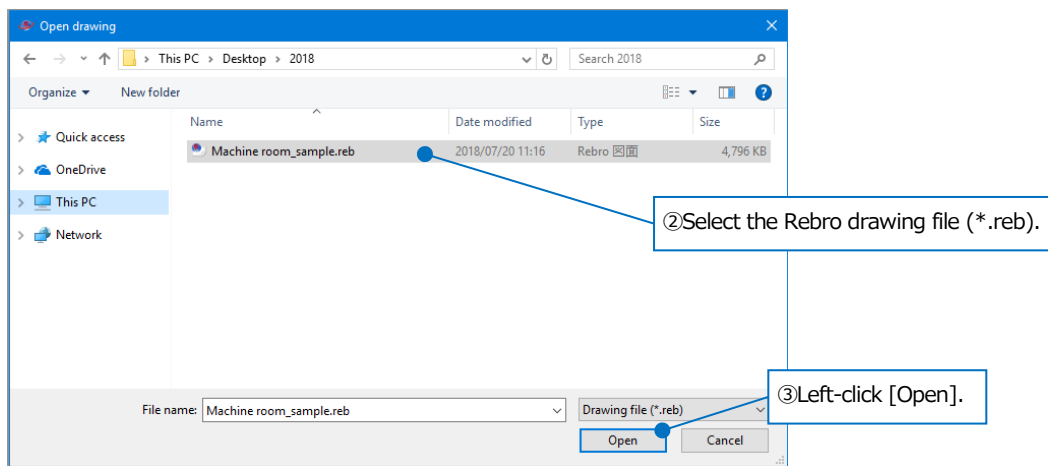
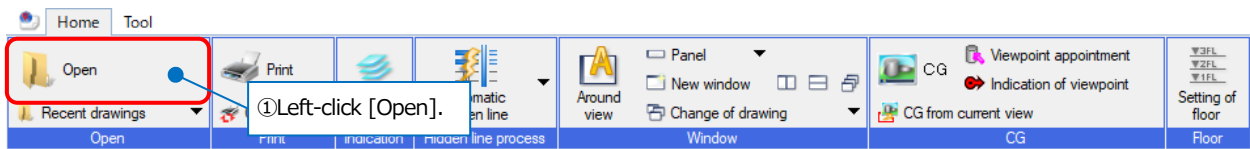
–**RebroViewer** is a free redistributable viewer.

–Always use the latest version of **RebroViewer**. If you use an older "Viewer" version than the "Rebro" on which the drawing was created, the "Viewer" may not correctly show the newly added functions to "Rebro".

–No individual support for **RebroViewer** is available.

1. Open a drawing

Open a Rebro drawing file.



2.Set up the displays

How to enlarge, reduce, or move screens

-Enlarge or reduce

You can enlarge or reduce a screen by rotating a wheel around the mouse position.

-Enlarge a specified area

Right-drag the area where you want to enlarge.

Note: Press End key to revert to the previous display area.

-Move a screen

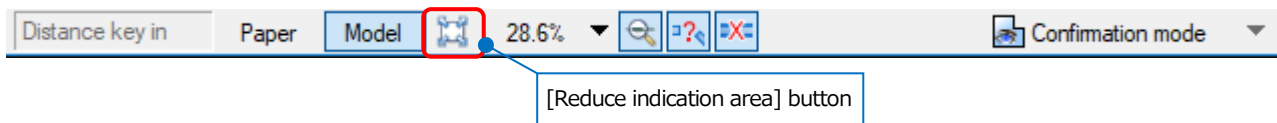
Press ↑ ↓ ← → keys.

Drag a wheel to move a screen.

Also, drag scroll bars that are placed on the right or bottom on a screen to move a screen.

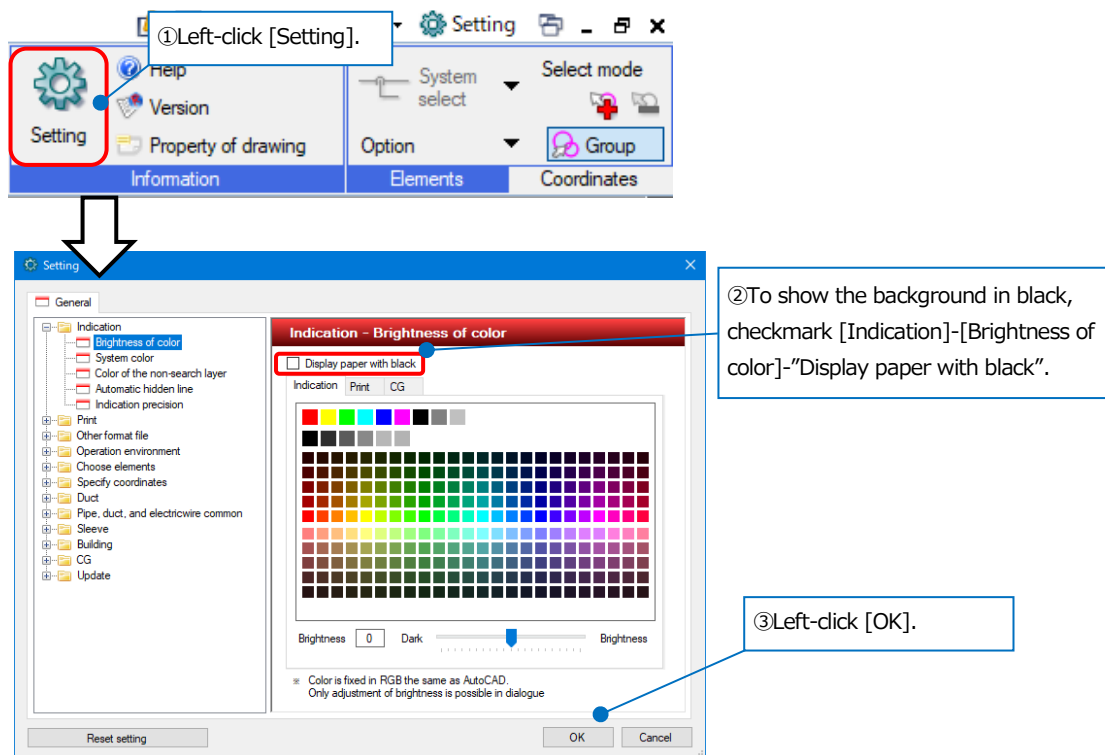
-Show entirely

Left-click [Reduce indication area] button on the status bar, or press Home key.



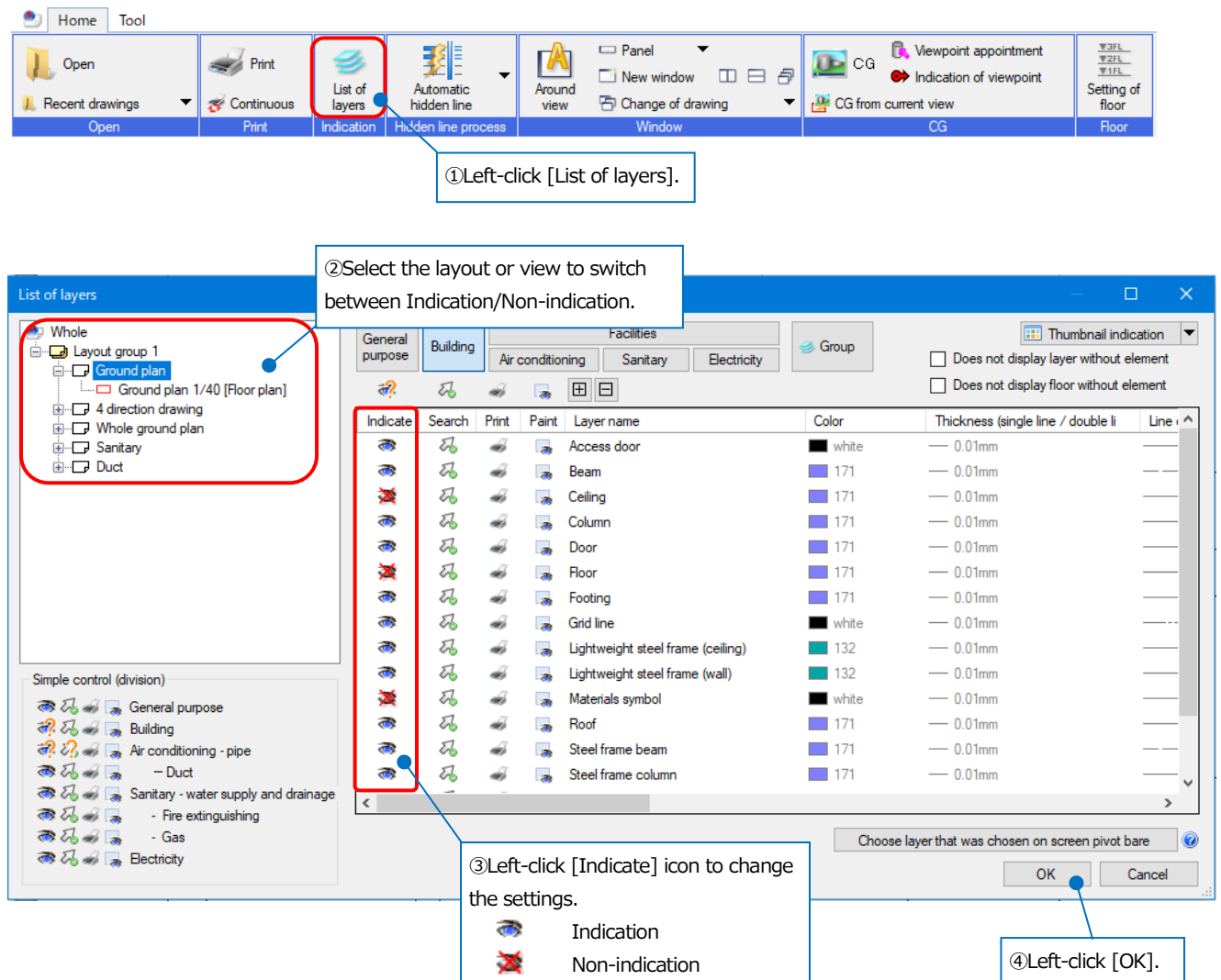
How to change a background color

You can select a background color either white or black.



How to switch between layer displays

You can switch between Indication/Non-indication for each layer.



①Left-click [List of layers].

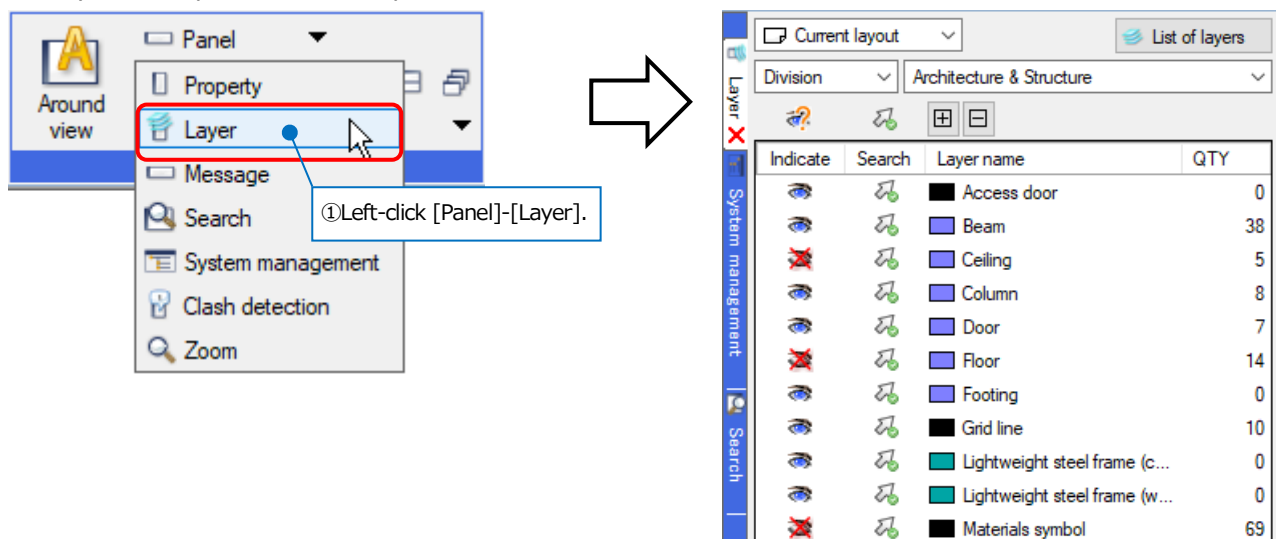
②Select the layout or view to switch between Indication/Non-indication.

③Left-click [Indicate] icon to change the settings.

④Left-click [OK].

Indicate	Search	Print	Paint	Layer name	Color	Thickness (single line / double li	Line
				Access door	white	0.01mm	
				Beam	171	0.01mm	
				Ceiling	171	0.01mm	
				Column	171	0.01mm	
				Door	171	0.01mm	
				Floor	171	0.01mm	
				Footing	171	0.01mm	
				Grid line	white	0.01mm	
				Lightweight steel frame (ceiling)	132	0.01mm	
				Lightweight steel frame (wall)	132	0.01mm	
				Materials symbol	white	0.01mm	
				Roof	171	0.01mm	
				Steel frame beam	171	0.01mm	
				Steel frame column	171	0.01mm	

Also, you can operate it on the panel.

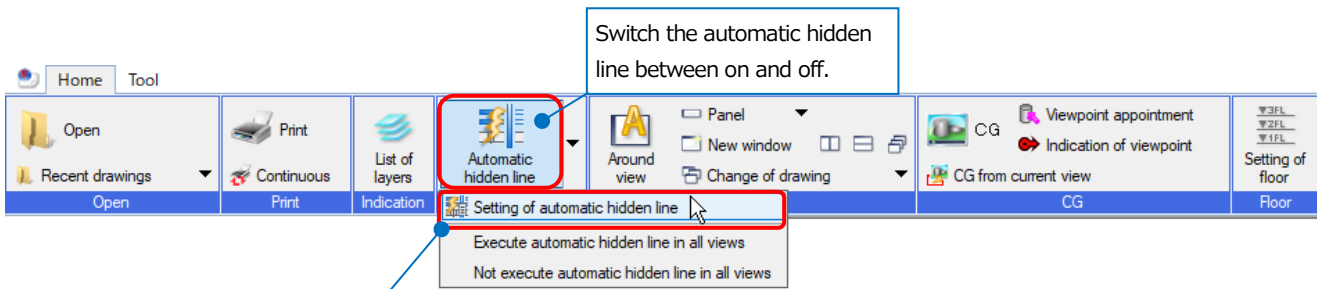


①Left-click [Panel]-[Layer].

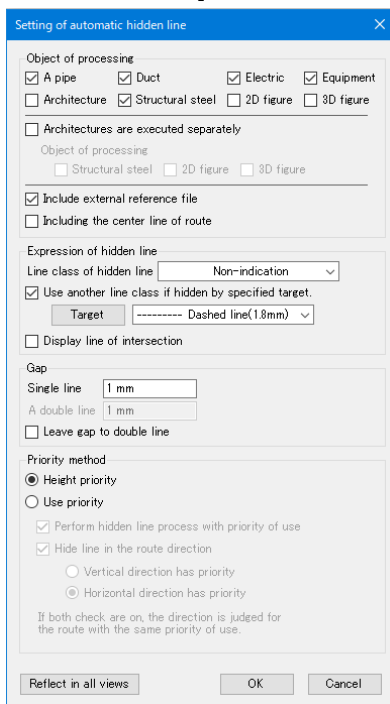
Indicate	Search	Layer name	QTY
		Access door	0
		Beam	38
		Ceiling	5
		Column	8
		Door	7
		Floor	14
		Footing	0
		Grid line	10
		Lightweight steel frame (c...	0
		Lightweight steel frame (w...	0
		Materials symbol	69

How to set up an automatic hidden line

If an automatic hidden line is set for the drawing that you want to open, the setting is reflected.

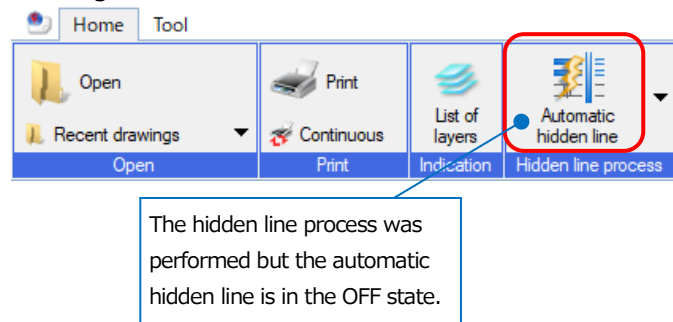


You can check or change the setting of automatic hidden line by [Setting of automatic hidden line] in [▼] next to [Automatic hidden line].



- Supplementary explanation

In the case that [Hand operated hidden line] is set for the drawing:

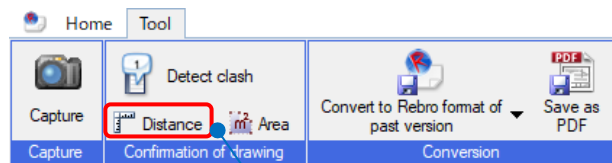


When you apply an automatic hidden line to the drawing for which hand operated hidden line was set, Rebro changes the setting details to automatic hidden line. If you want to recheck the state of hand operated hidden line, open the drawing again.

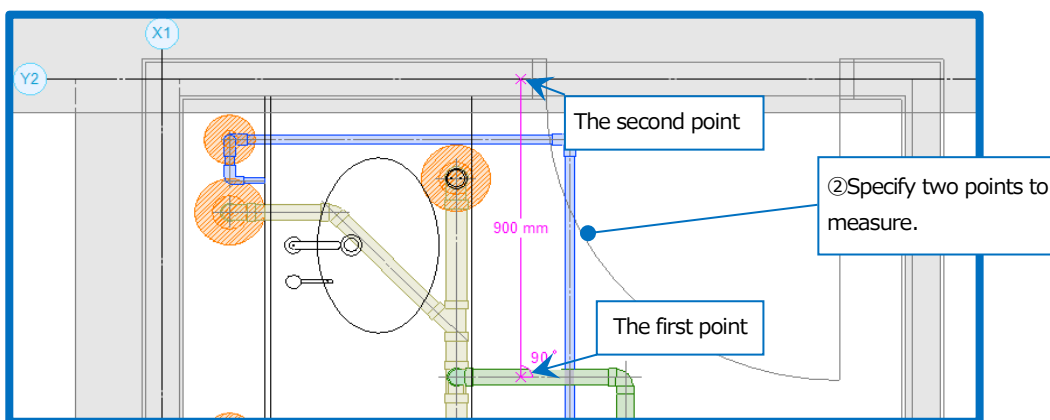
3. Check a drawing

How to measure a distance or an angle

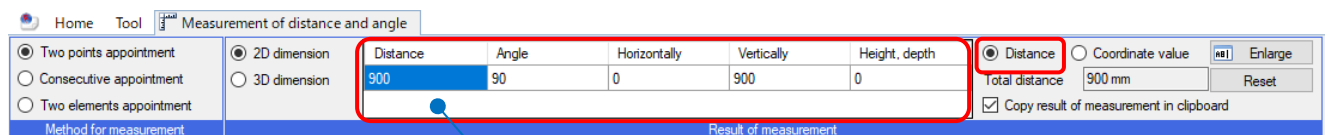
You can determine a distance and coordinate values between the two specified points.



①Left-click [Distance].

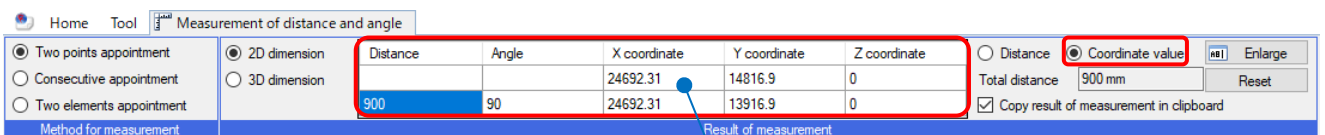


For [Distance]



The distance between two specified points appears in the result field.

For [Coordinate value]



The coordinate values and the distance between two specified points appear in the result field.

How to measure the area

Measure the area by specifying vertices.

① Left-click [Area].

② Specify all vertices to left-click [Decision].

③ The measurement result appears on the ribbon.

The ninth point

The sixth point

The seventh point

The eighth point

The tenth point

The eleventh point

The fifth point

The second point

The first point

The third point

The fourth point

The twelfth point

Office
CH=2600
FL±0

Shape of line connecting to next point
Straight line
Arc (two points)

Method for measurement

Result of measurement

Total area 0 m²

Enlarge Reset

35.65 m²

Total area 35.65 m²

Enlarge Reset

How to check the floor height

You can check the floor height set in a drawing.

① Left-click [Setting of floor].

② The table of floor names and floor heights can be checked.

Setting of floor

Floor name	Floor height	Z-coordinate value
RFL		19000
5FL	3800	15200
4FL	3800	11400
3FL	3800	7600
2FL	3800	3800
1FL	3800	0

Close

Open Recent drawings Open

Print Continuous Print

List of layers Indication

Automatic hidden line Hidden line process

Panel Around view

New window Change of drawing Window

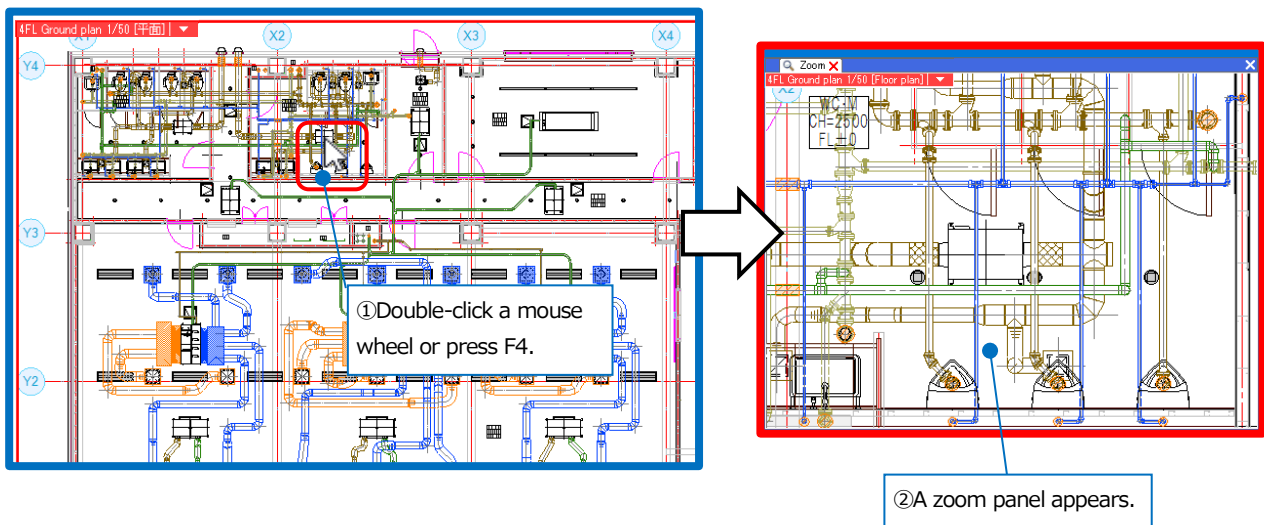
Viewpoint appointment CG

Indication of viewpoint CG from current view CG

Setting of floor Floor

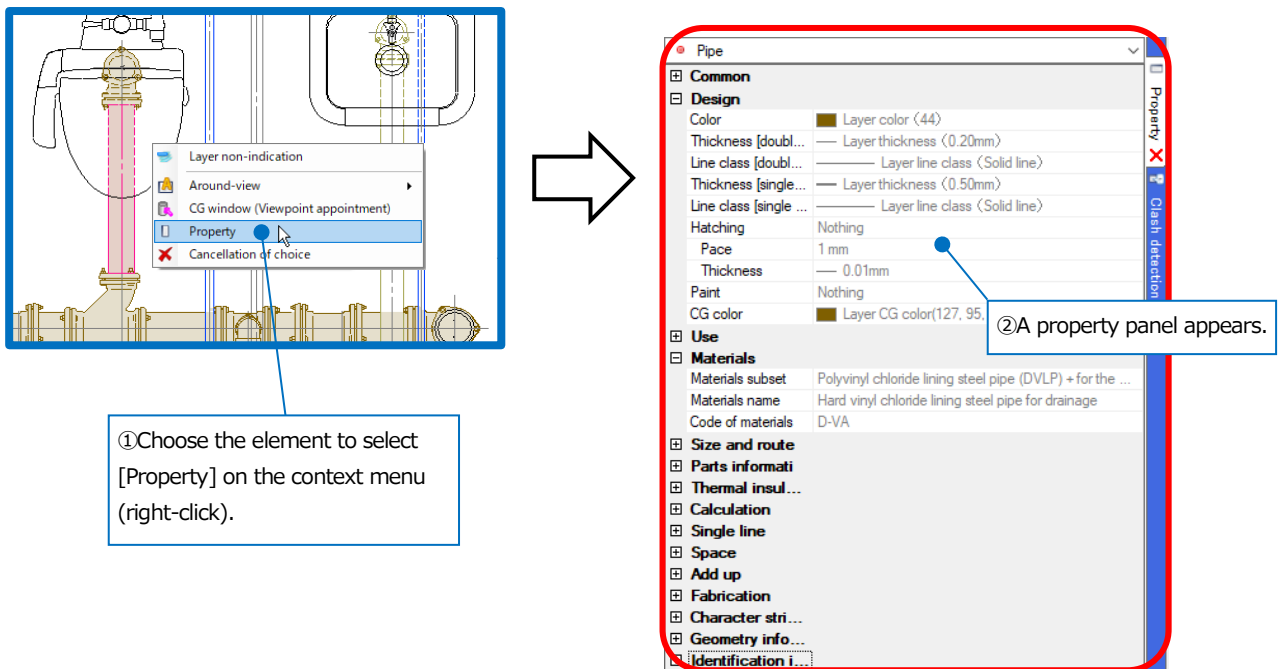
As for zoom panels

You can enlarge an area around a mouse pointer on a drawing.



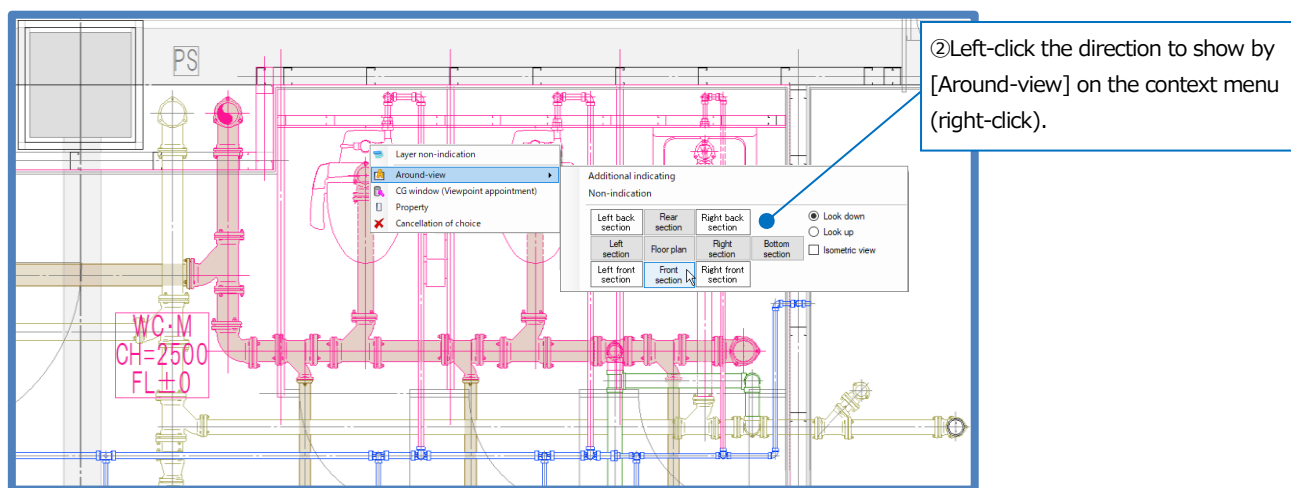
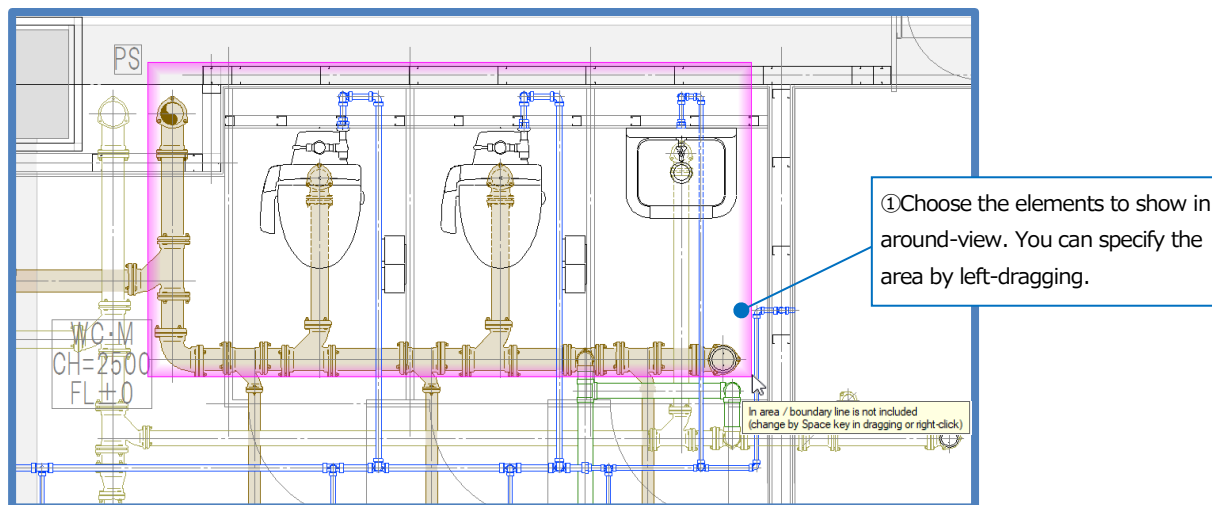
As for property panels

You can check attributes of an element.

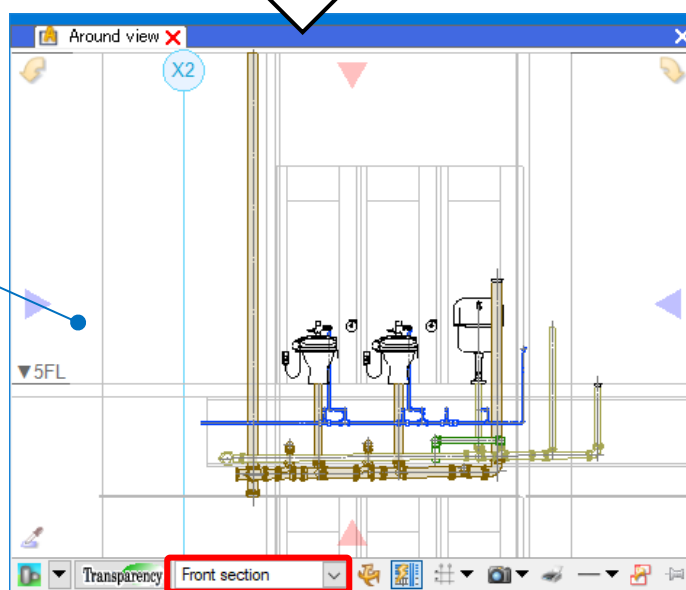


As for around-view

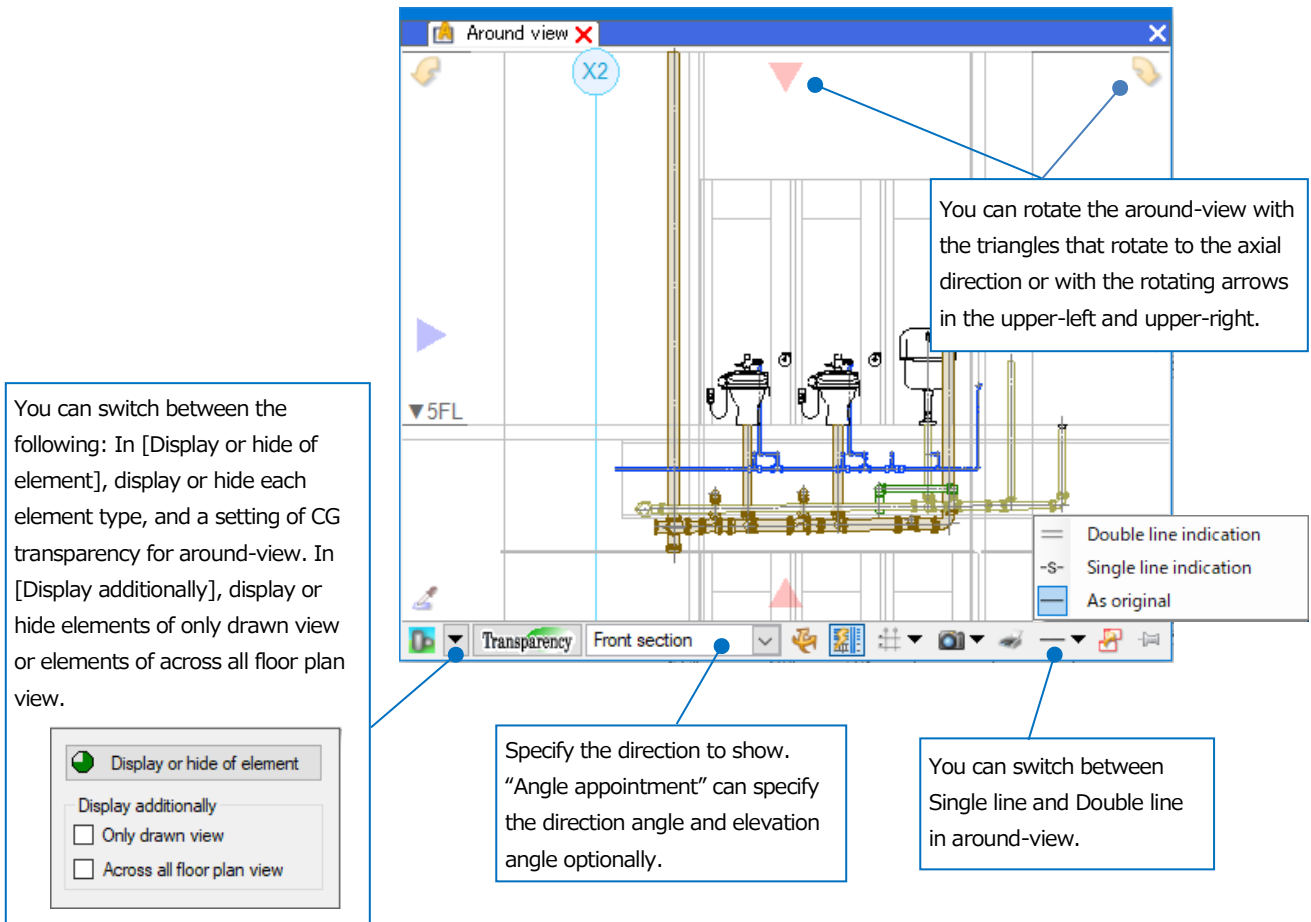
You can show the chosen elements from another direction.



③ An around-view in the specified direction appears.

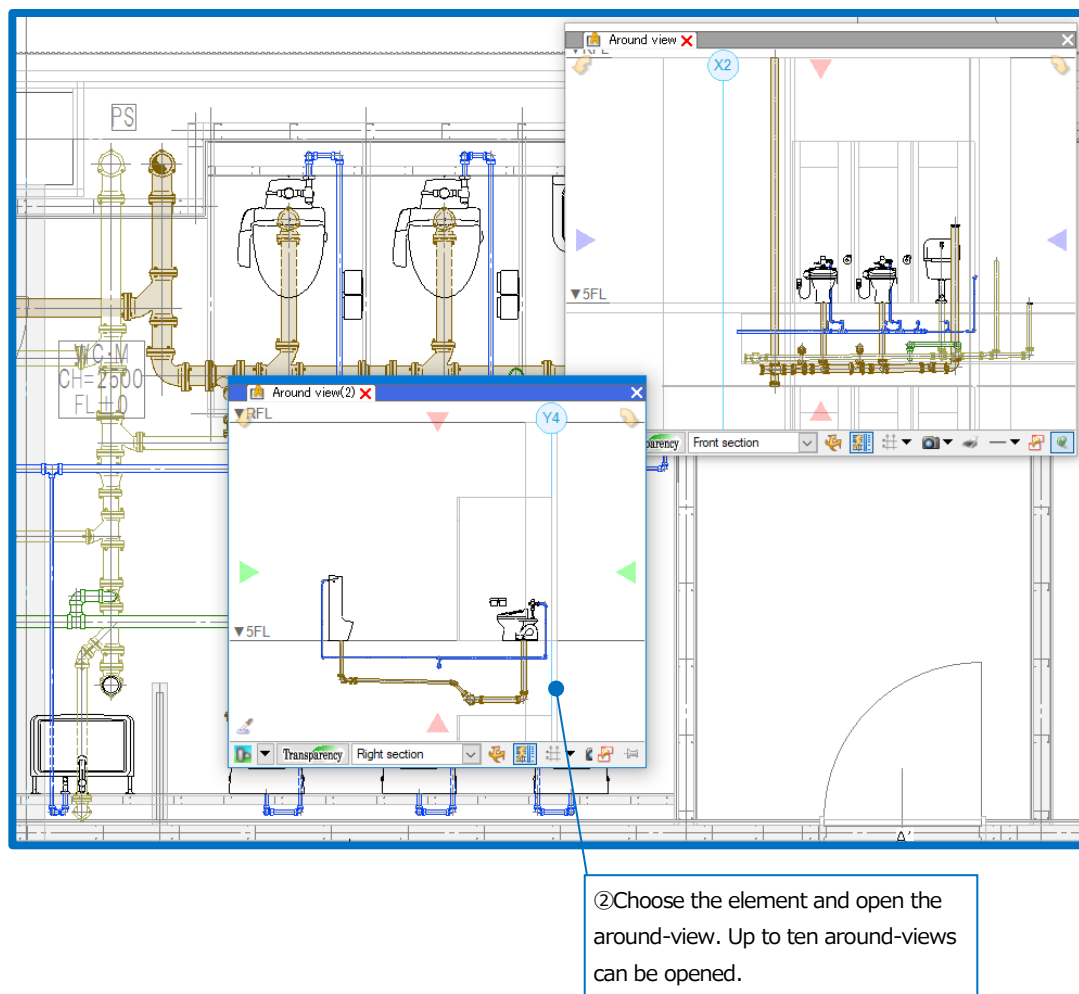
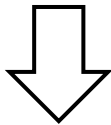
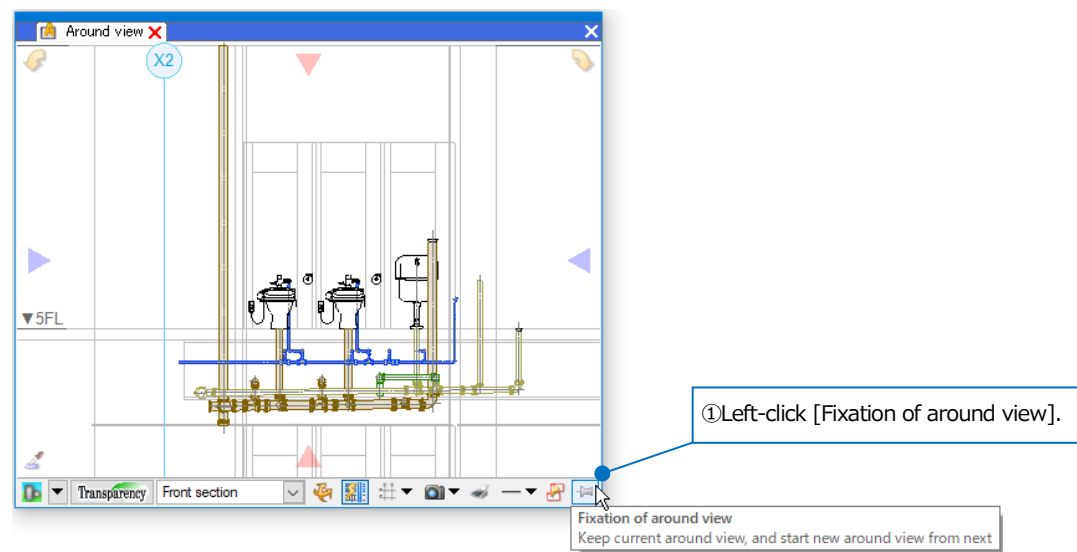


You can switch the viewpoints in around-view.



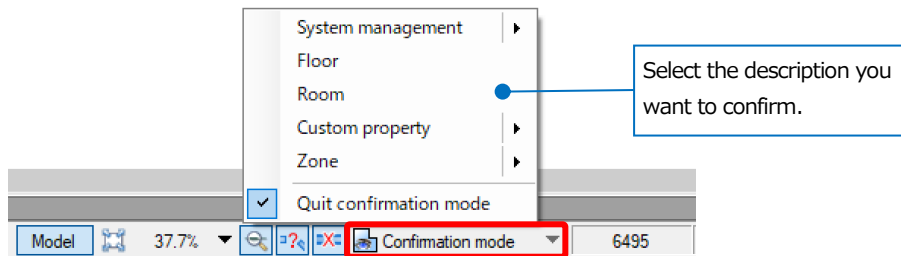
	Left-click a pipette button and choose a line on the drawing to change the viewpoint according to the line angle.
	Switch around-view to CG display.
	Change transparency of CG display in around-view.
	When turned on, right-dragging of the mouse turns the around-view. Choosing an element allows you to turn the around-view around the chosen element.
	Switch the automatic hidden line between on and off.
	Switch between Display/Hide for Grid line or Floor line.
	Save the image as an image file. [Save in file]: You can save the images into BMP, JPEG, GIF, TIFF, and PNG image format. [Save in clipboard]: You can paste the images onto Word or Excel. [Send by email]: You can send the saved images by e-mail. Left-click [Setting of email sending point] to enter an email address, subject, and main text.
	Print the around-view.
	Start an around-view in the same state of display.

You can start multiple around-views.



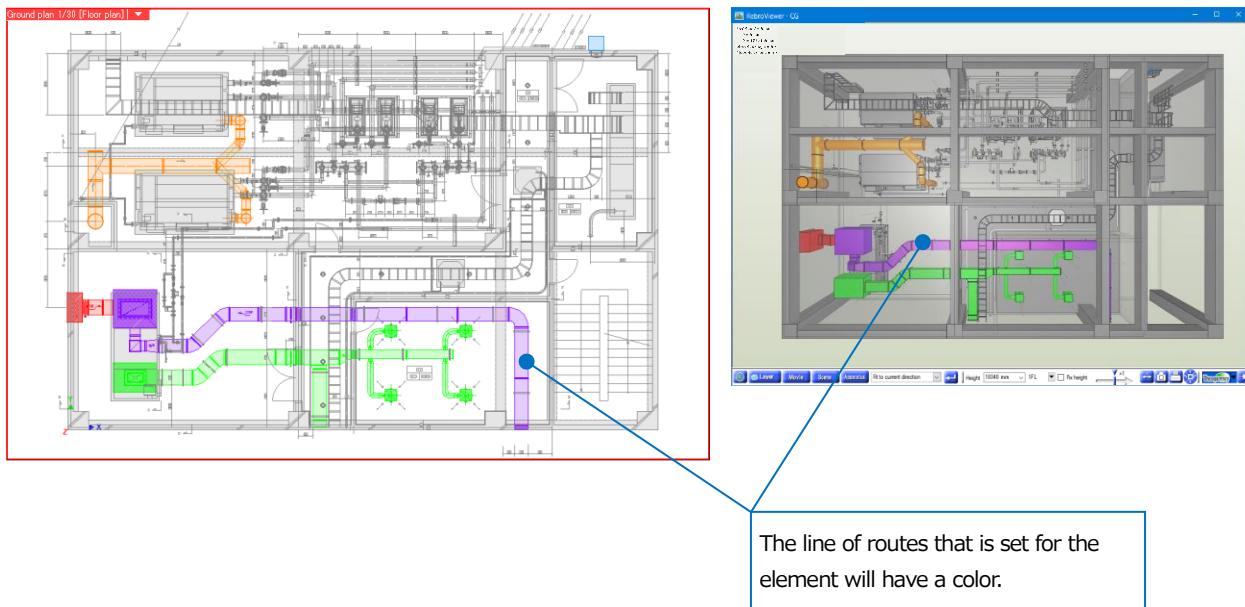
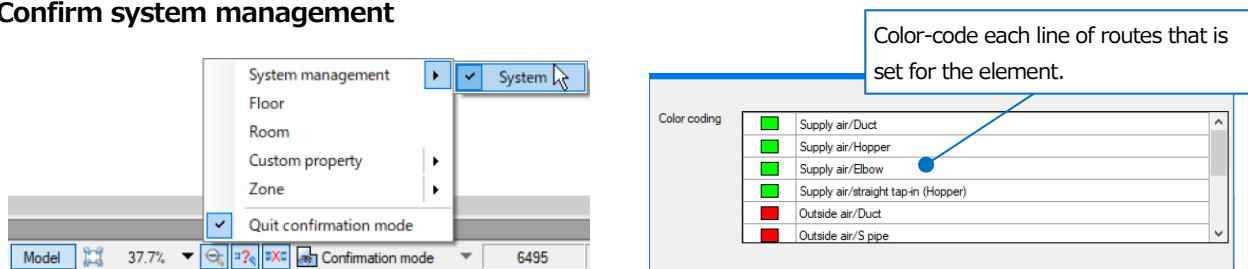
As for confirmation mode

In the case that Room, System management, Custom property, etc. are set, you can left-click [Confirmation mode] to color-code and show drawings or CGs.

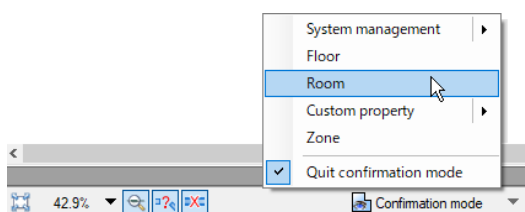


For Color-coding, Custom property, Zone type, etc., confirm at "▼" next to the "Confirmation mode" icon.

Confirm system management



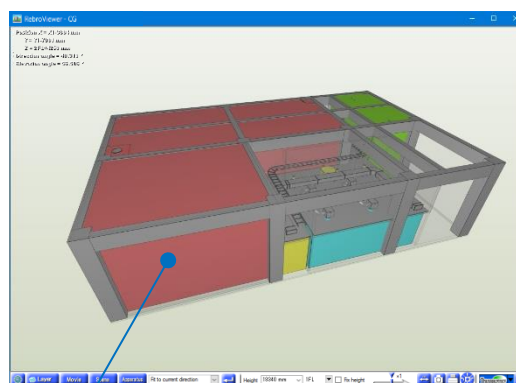
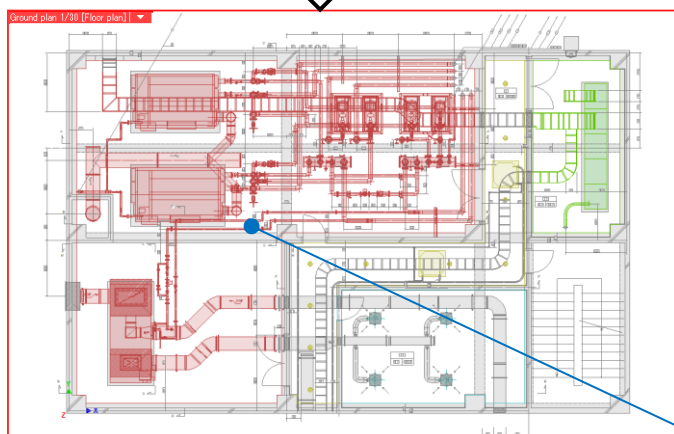
Confirm each room



Color coding

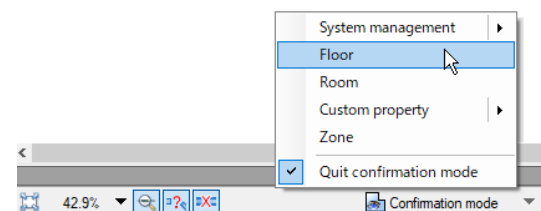
■	Air-conditioning machine room
■	Locker room
■	Electric room
■	Corridor

Color-code each room that is set for the purpose.



Each room that is set will have a color.

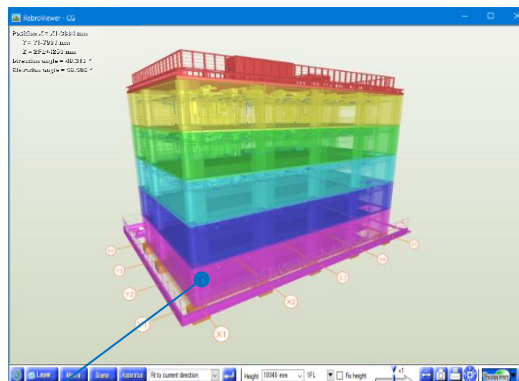
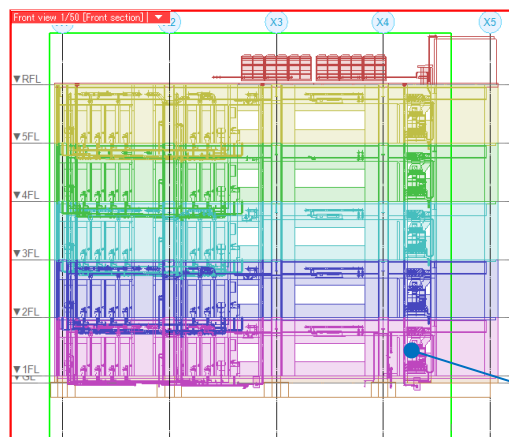
Confirm each floor



Color coding

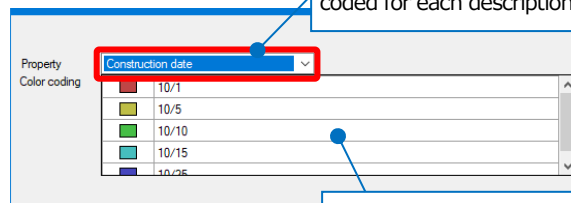
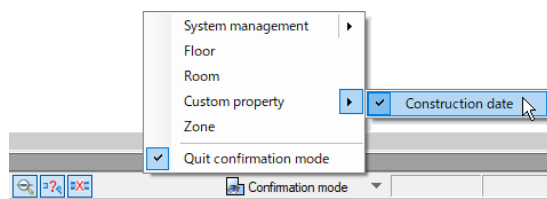
■	RFL
■	5FL
■	4FL
■	3FL
■	2FL
■	1FL

Color-code each floor.



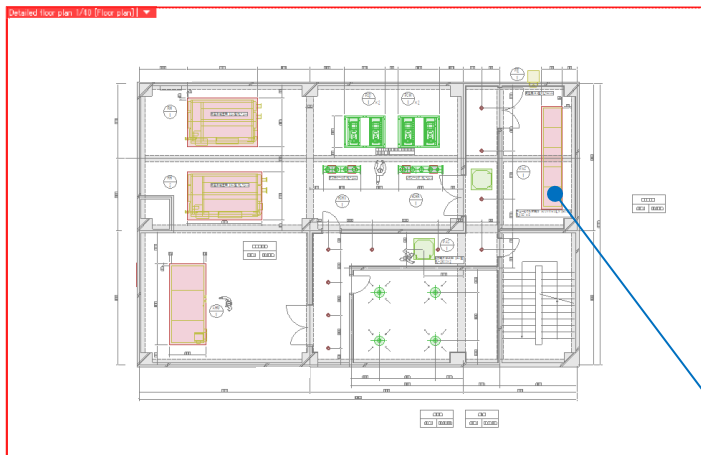
Elements will be colored for each reference floor.

Confirm custom property



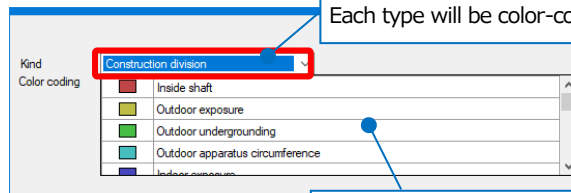
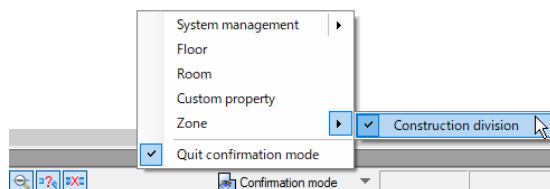
Select the property. The display is color-coded for each description of the property.

You can confirm a table of values and colors that are set for the property.



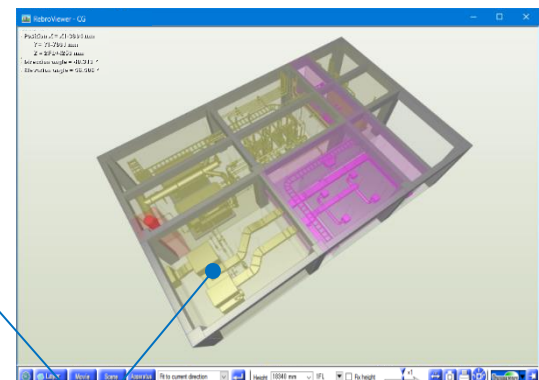
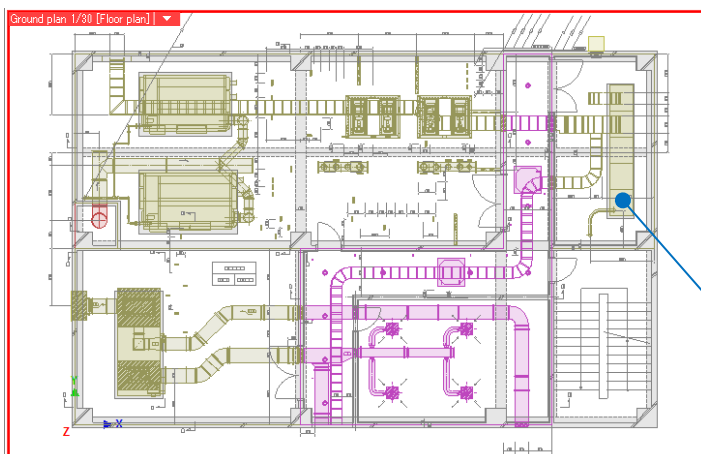
The element for which you set custom properties will be colored.

Confirm each zone



Select one in the types you set. Each type will be color-coded.

You can confirm a table of names and colors that are set for the zone.



Elements will be colored in each zone.

How to detect clashes

You can confirm the clash detection results by opening the drawing for which Rebro detected clashes.

Home

Tool

Capture

Distance

Area

Convert to Rebro format of past version

Save as PDF

Capture

Confirmation of drawing

Conversion

Left-click [Detect clash] to open [Clash detection] panel.

Need to execute detect clash and editing / output of detect clash result in Rebro. Detect clash and edit / output result of detect clash needs to be done in Rebro.

Position of interference

List of exclusion

Number of indication(62) / The number of clashes(62)

Indication

Filter

NO.	Element name	Element name	X
8	Ventilation Pipe 5...	Beam 200×600H	
9	Waste water Pipe...	Floor 150H	
10	Soil water Pipe 80A	Floor 150H	
11	Soil water Pipe 1	Floor 150H	
12	Waste water Pipe...	Floor 150H	
13	Ventilation Pipe 1...	Floor 150H	
14	Spiral duct fitting (...)	Spiral duct fitting (...)	
15	Ventilation Pipe 6...	Floor 150H	
16	Water supply Pip...	Floor 150H	
17	Water supply Pip...	Floor 150H	
18	Waste water Pipe...	Floor 150H	
19	Water supply Pip...	Floor 150H	
20	Soil water Pipe 80A	Floor 150H	
21	Soil water Pipe 80A	Floor 150H	
22	Water supply Pip...	Floor 150H	
23	Water supply Pip...	Floor 150H	
24	Soil water Pipe 80A	Floor 150H	
25	Exhaust air Duct ...	Beam 300×800H	
26	Exhaust air Duct ...	Beam 300×800H	
27	Water supply Pip...	Floor 150H	
28	Flexible fitting for	Floor 150H	

[Clash detection] panel

4FL Ground plan 1/50 (Floor plan)

WC-M
CH=2500
FL±0

Balloons appear on the dash points. Left-click the dash number on the panel to change the balloon color with the same number.

Need to execute detect clash and editing / output of detect clash result in Rebro. Detect clash and edit / output result of detect clash needs to be done in Rebro.

Position of interference

List of exclusion

Number of indication(62) / The number of clashes(62)

Indication

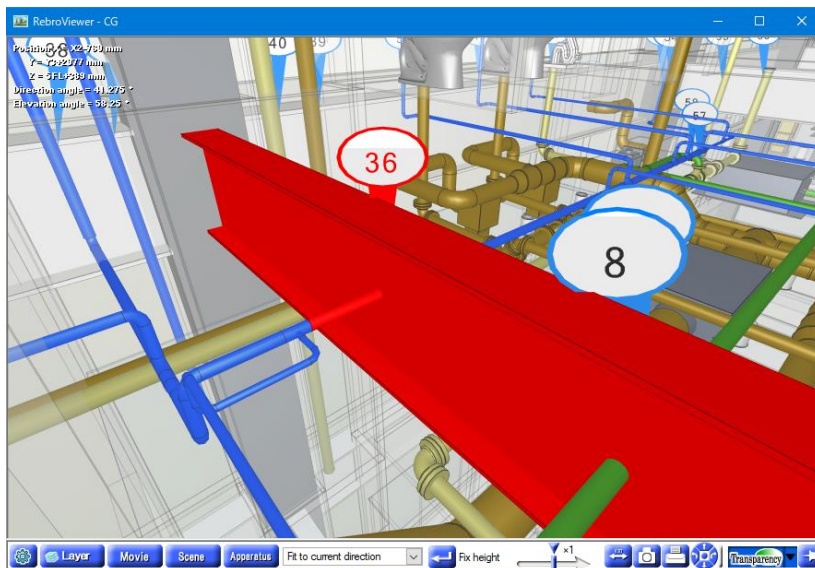
Filter

NO.	Element name	Element name	X	Y	Z	The quantity of clashes (upper)	The quantity of clashes (lower)
1	Waste water Pipe...	Floor 150H	X1+0	Y3+2800	4FL+3650	657	123
2	Waste water Pipe...	Floor 150H	X1+0	Y4-1300	4FL+3650	677	123
3	Waste water Pipe...	Floor 150H	X1+1884	Y3+2022	4FL+3725	686	446
4	Water supply Pip...	Floor 150H	X1+1784	Y3+2022	4FL+3725	263	412
5	Waste water Pipe...	Floor 150H	X1+284	Y3+2022	4FL+3725	670	446
6	Water supply Pip...	Floor 150H	X1+984	Y3+2022	4FL+3725	263	412
7	Water supply Pip...	Floor 150H	X1+184	Y3+2022	4FL+3725	263	412
8	Ventilation Pipe 5...	Beam 200×600H	X2+5	Y4-2854	4FL+3300	381	281
9	Waste water Pipe...	Floor 150H	X1+1084	Y3+2022	4FL+3725	678	446
10	Soil water Pipe 80A	Floor 150H	X1+1360	Y4-478	4FL+3725	843	151
11	Soil water Pipe 1	Floor 150H	X1+1000	Y4-1000	4FL+3725	817	1323
12	Waste water Pipe...	Floor 150H	X1+357	Y4-543	4FL+3725	672	151
13	Ventilation Pipe 1...	Floor 150H	X1+500	Y4-150	4FL+3725	6551	1165
14	Spiral duct fitting (...)	Spiral duct fitting (...)	X1+1915	Y4-326	4FL+3201	125	158

On the drawing, switch between balloon shapes, or Indication/Hide for clash points.

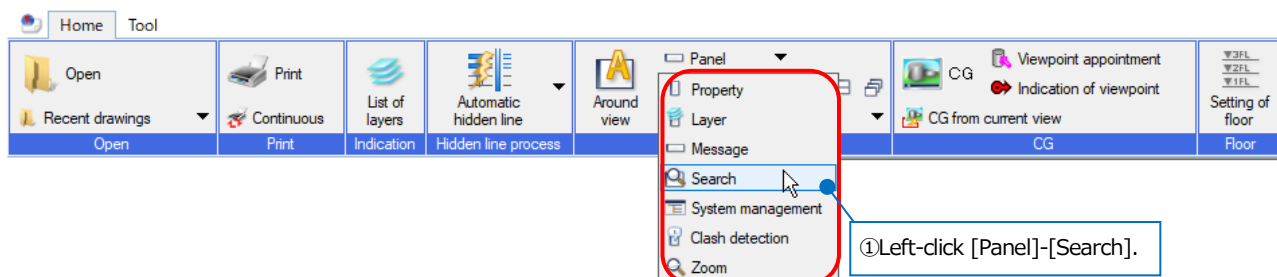
Left-click the table to confirm the quantity of clashes.

When you double left-click the table or balloon, CG screen appears and brings the viewpoint close to the clash point.

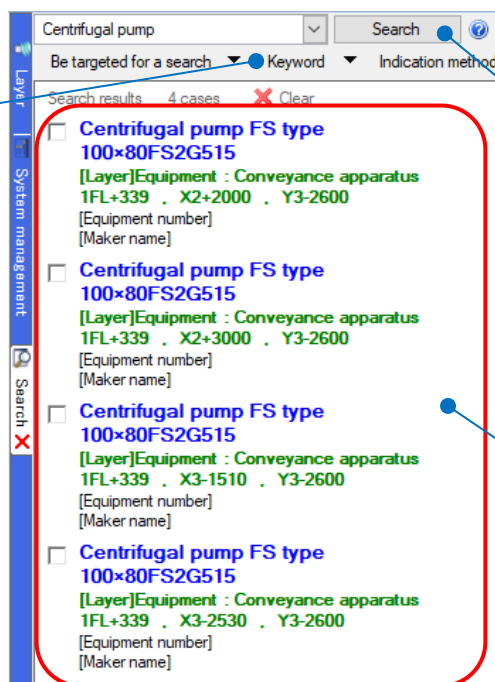
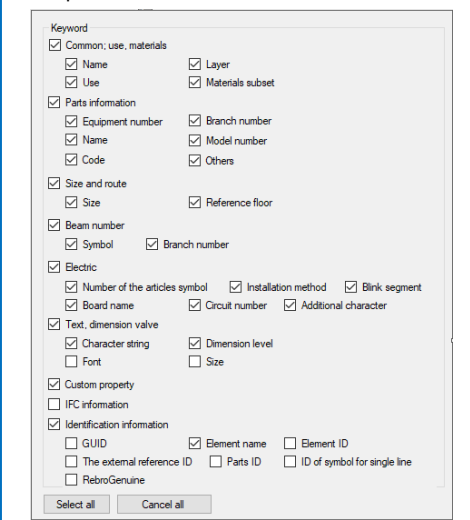


How to search for characters and so on

By entering keywords, you can search for characters, parts and so forth on the drawing.



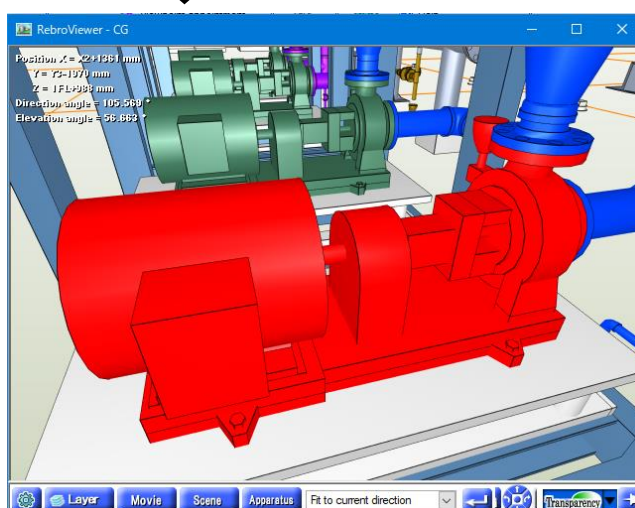
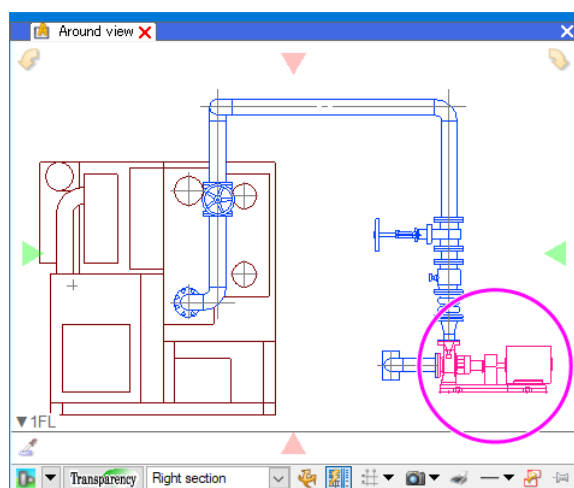
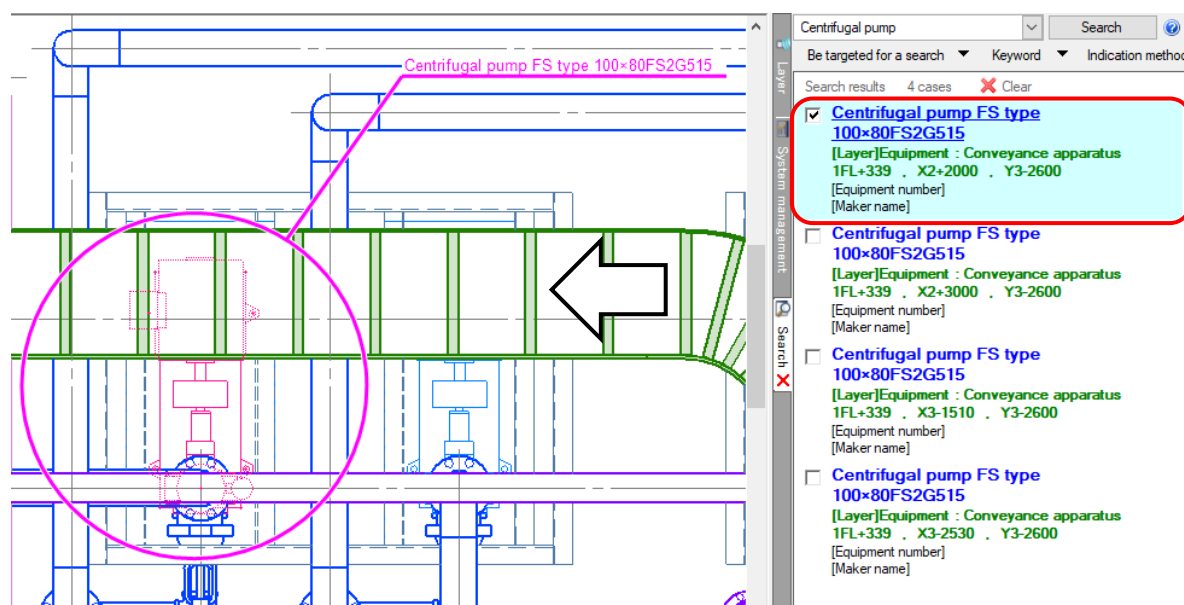
Narrow down keywords for property descriptions.



② Enter a keyword and left-click [Search].

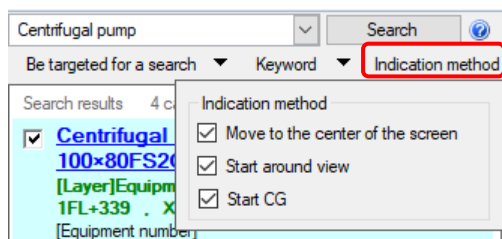
③ Matching elements appear in list form.

If you select the part from the search results, you can confirm the part on a drawing, around-view, or CG.



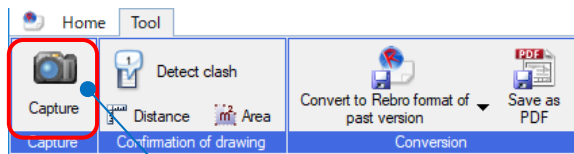
Memo

Left-click [Indication method] to select whether to display or hide CG or around-view, when you select a search result list.

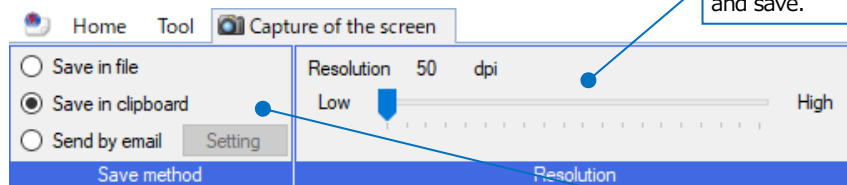


How to capture images

You can save a specified area on Rebro screen as an image.



① Left-click [Capture].



You can set the resolution and save.

[Save in file]

: You can save the images into BMP, JPEG, GIF, TIFF, and PNG image format.

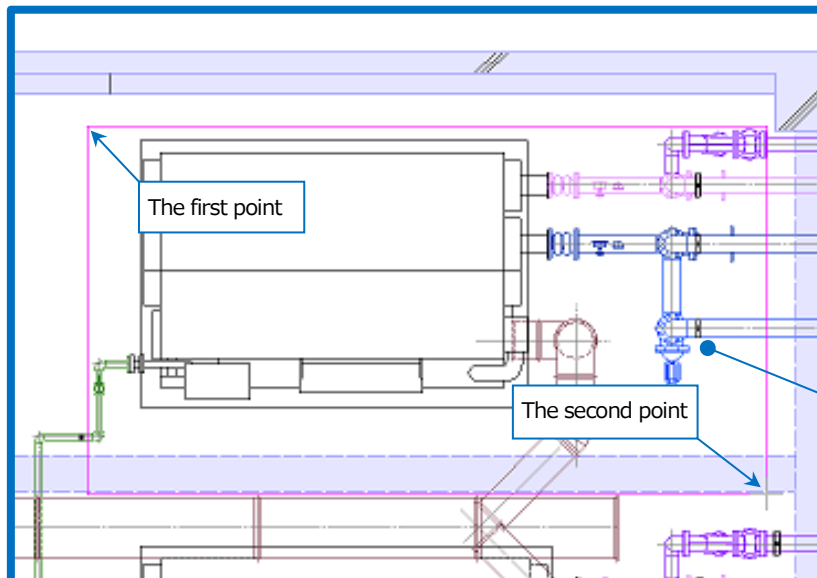
[Save in clipboard]

: You can paste the images onto Word or Excel.

[Send by email]

: You can send the saved images by e-mail.

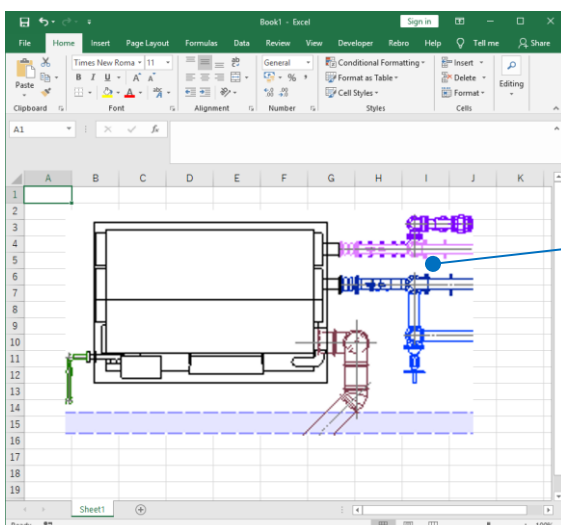
Left-click [Setting] to enter an email address, subject, and main text.



The first point

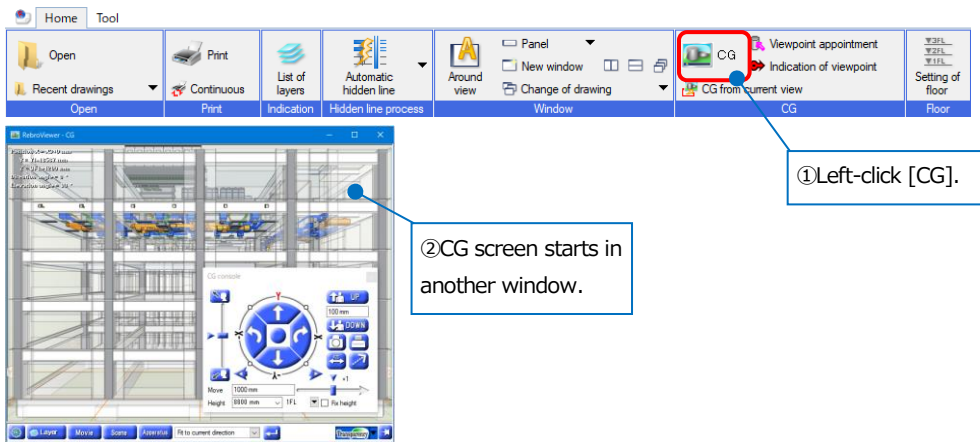
The second point

② Specify the area to capture with two diagonal points.



③ If you select [Save in clipboard] as a save method, you can paste the captured images onto Word or Excel.

4.CG



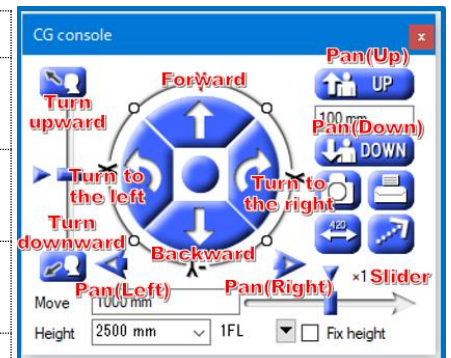
As for mouse actions

Wheel	Go forward or backward by rotating. Move the screen by dragging.
Left-drag	Turn the screen up, down, left, and right around the current position.
Right-drag	Rotate the screen around the position (on the element) where the mouse points.
Double left-click (sweeping)	Bring the viewpoint closer to the specified element.
Double right-click	Make the screen level.

Note: If you rotate the wheel while pressing Ctrl, the screen moves at twice the distance.

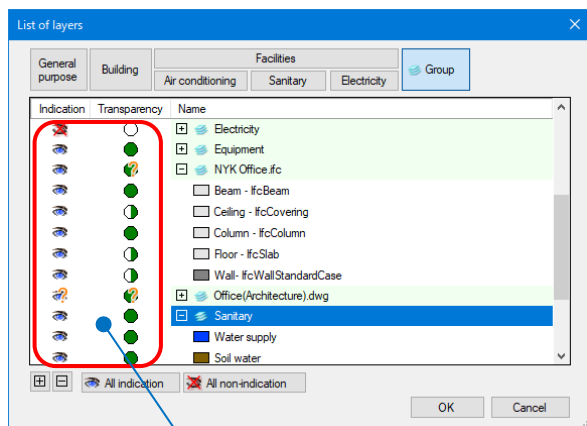
How to operate screens on a CG console panel

Forward or backward	Move the viewpoint forward or backward.
Turn to the left or turn to the right	Turn the viewpoint to the left or right.
Turn upward or turn downward	Turn the viewpoint upward or downward.
Slider handle	Adjust the speed and quantity of movement when moving on the screen.
Move	Specify a moving distance. Set the distance at a pitch of one-click for moving forward or backward.
Pan (Up) or (Down)	Move the viewpoint up or down at the input value.
Pan (Left) or (Right)	Move the viewpoint to the left or right.
Height	Select the floor name and enter the viewpoint height directly to move the screen.
Fix height	Checkmark in the box, to fix the current height and move the screen forward, backward, left, or right.



As for layers

On CG screens, you can set up Indication/Non-indication layers and layers transparency.



Left-click the icons to switch them.

Left-click [Indication] icon to switch the settings.



Indication





Non-indication

[Transparency] can be changed by left-clicking the icon.

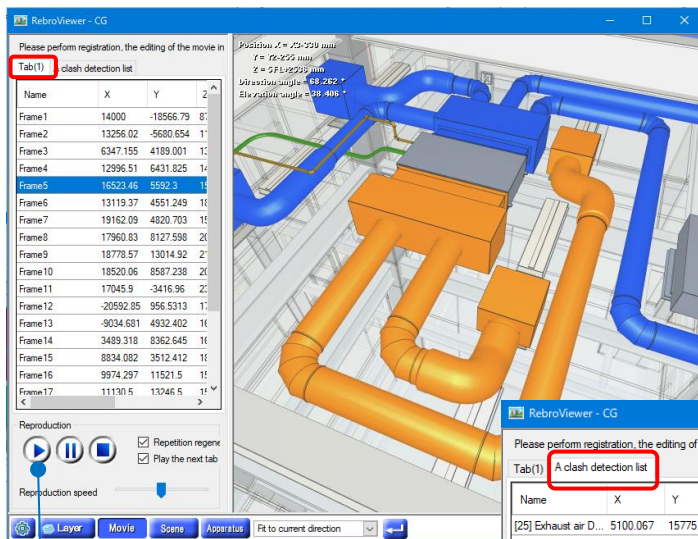
As the white ratio increases, the transparency increases.



When Non-indication  is left-clicked, the transparency icon will be .

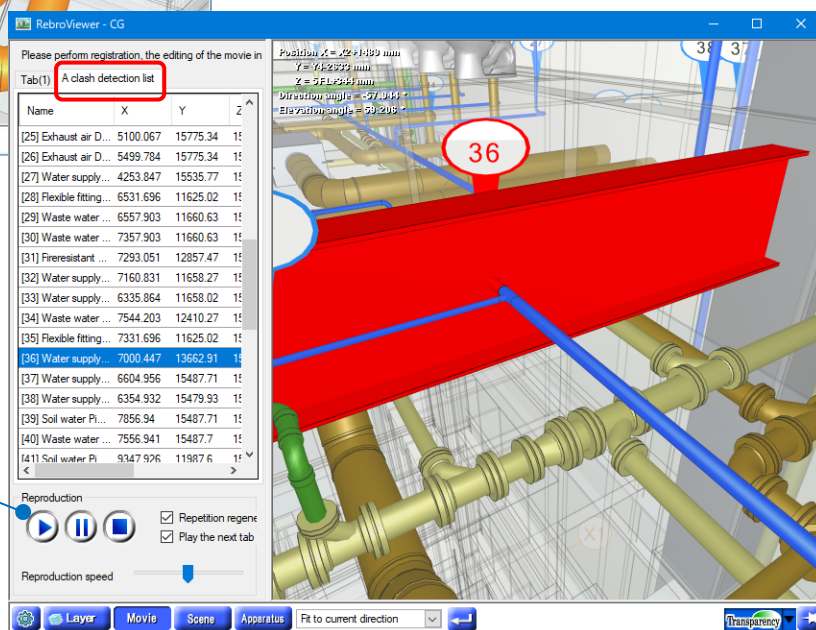
As for a movie

You can play movies created with Rebro, or [CG movie output] output with [Clash detection].



Play the registered frame.

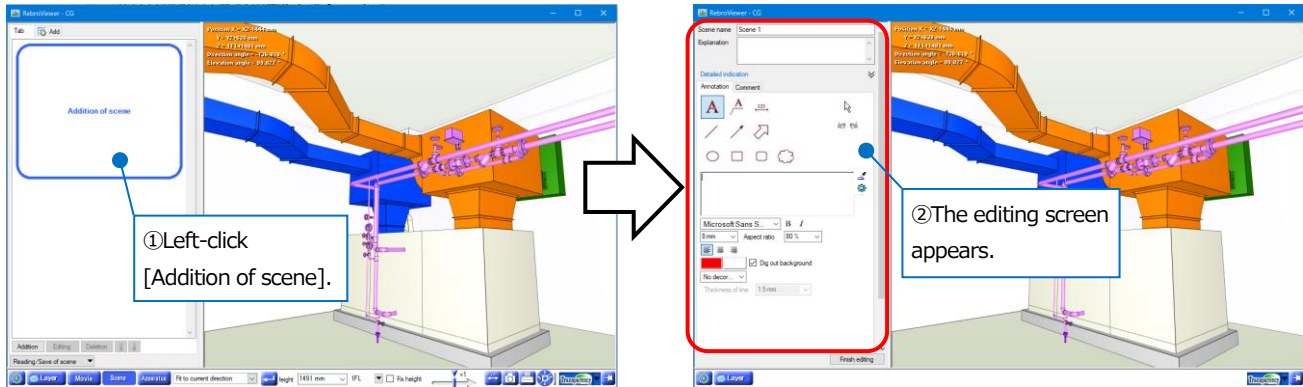
Play CG Scenes of the registered clash points.



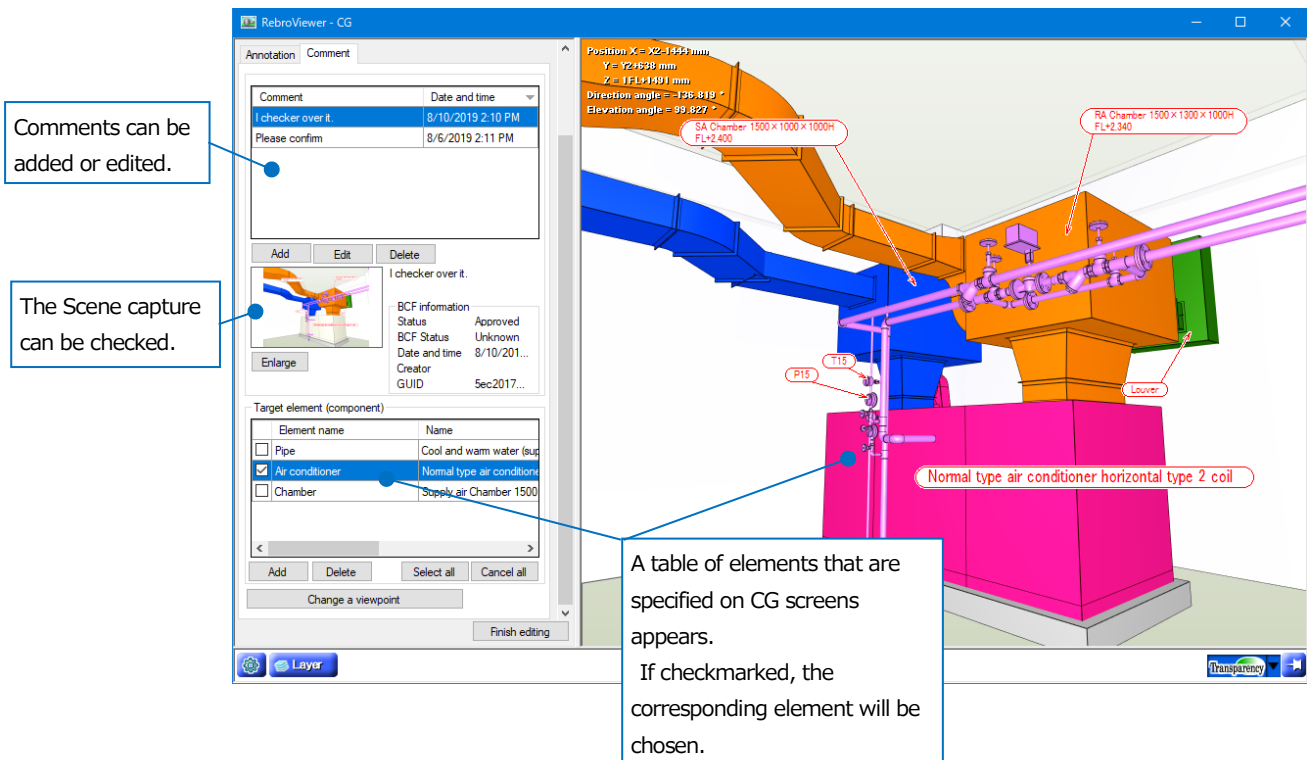
As for Scenes

You can register the currently shown CG screen as Scene, and fill out with characters, dimension lines, or figures on it by using [Annotation] tab.

The registered Scene can be printed, saved, and also passed to Rebro.

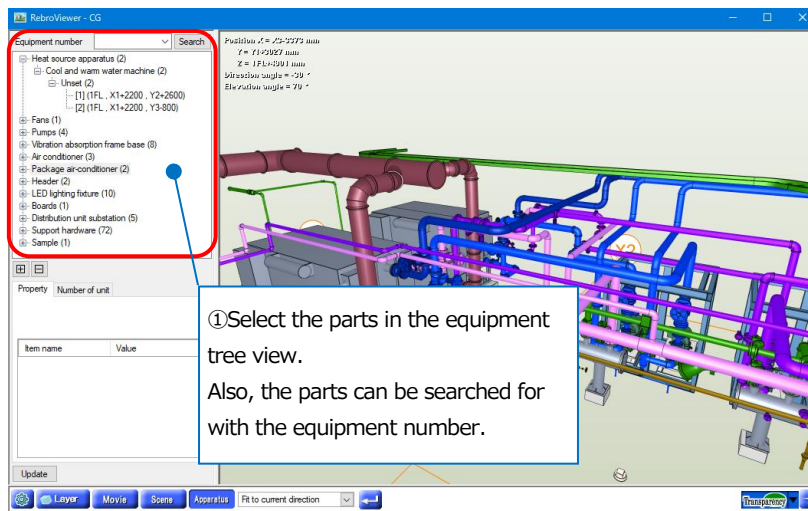


Comments on Scene can be exchanged in [Comment] tab. You can also pass the data to Rebro, if you save or read in BCF, you can pass it to other CAD.

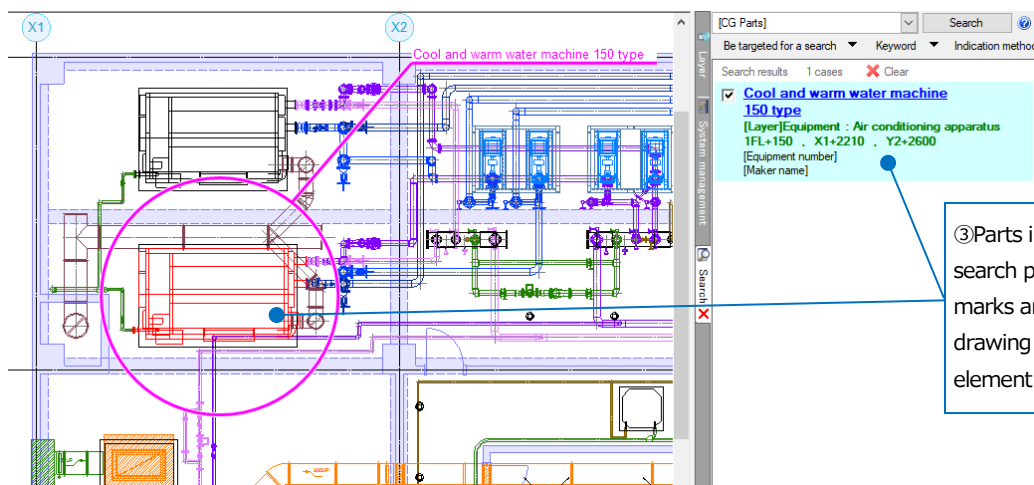
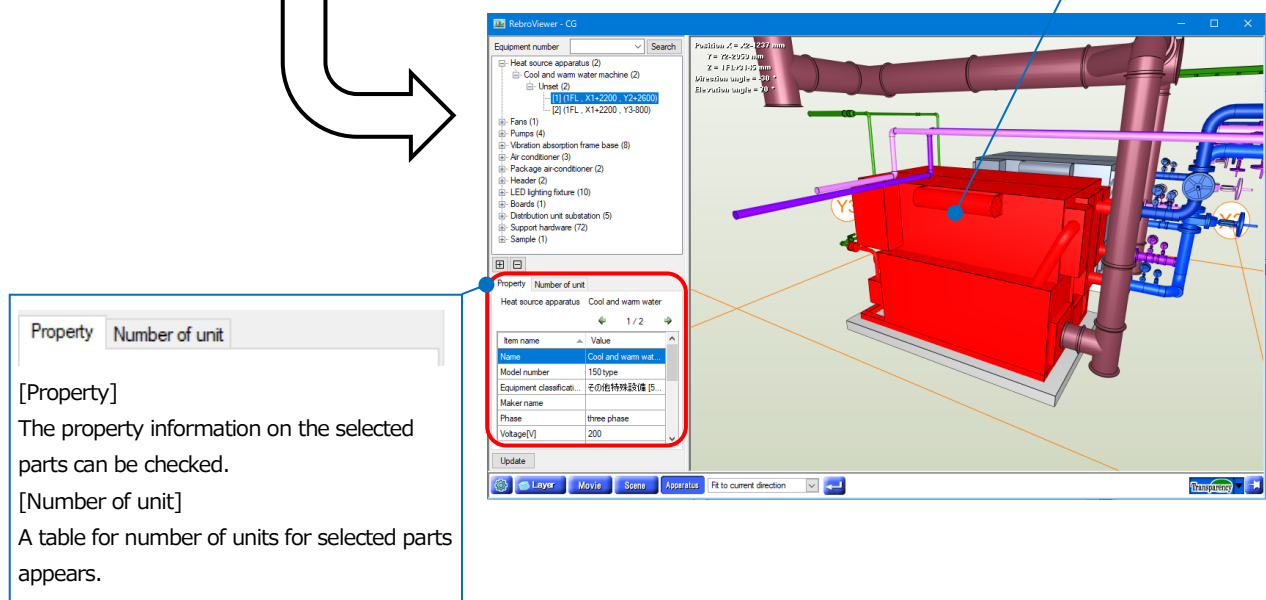
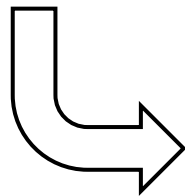


As for equipment

You can check the position of placed parts on CGs or drawings.



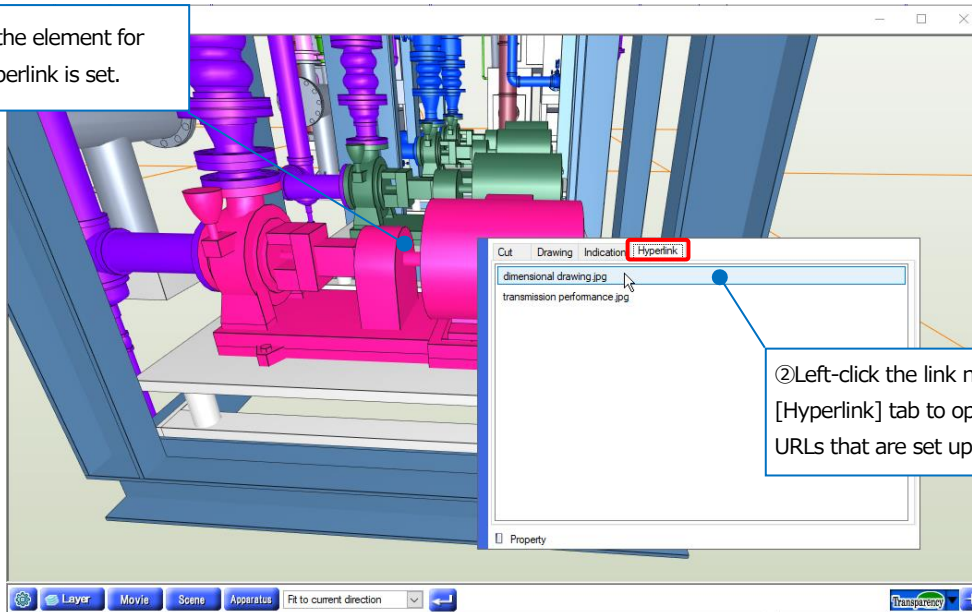
② The screen moves to the position where you can see the selected parts.



As for hyperlinks

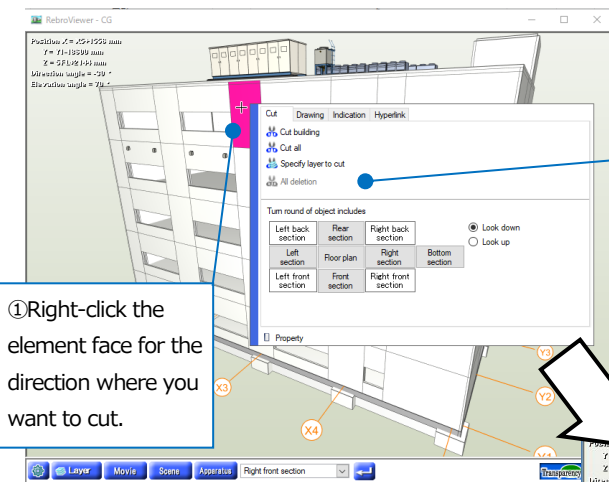
On CG, you can refer to the linked files or URLs for the equipment that you set up hyperlinks.

①Right-click the element for which the hyperlink is set.



How to cut a cross section

You can cut a cross section of element on CG.



②Specify elements to cut.

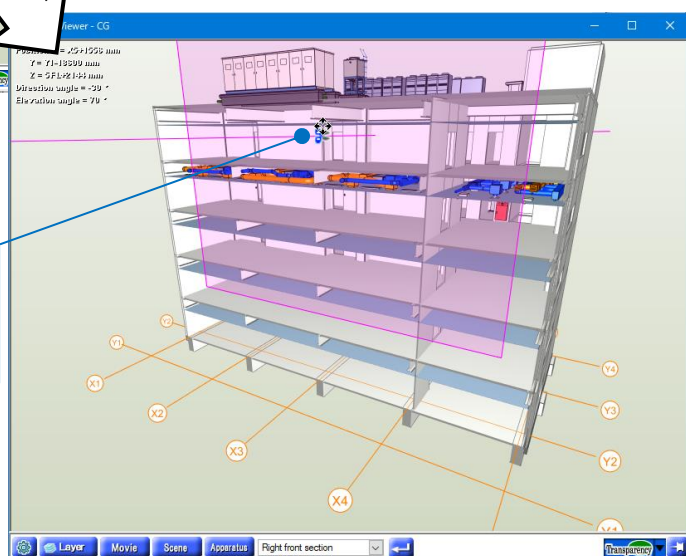
"Cut building": Cut elements in an architectural layer.

"Cut all" : Cut elements in all layers.

"Specify layer to cut"

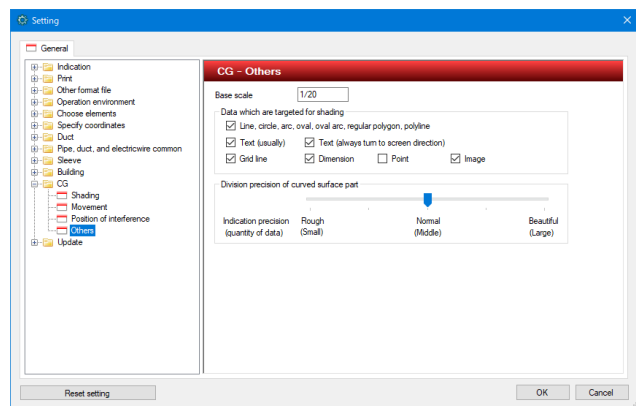
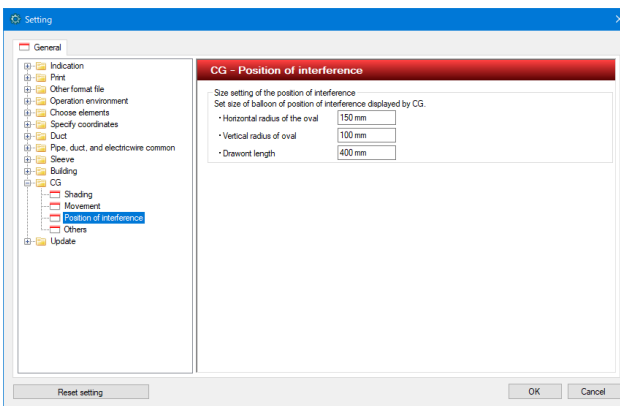
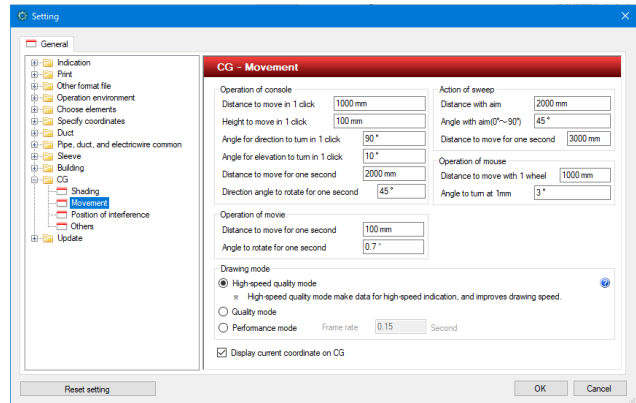
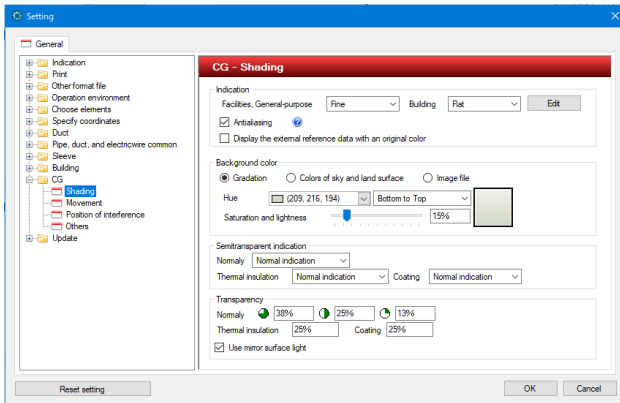
: Specify a layer in which the element to cut exists.

③Left-drag the scissors pointer to cut CG.



How to set up the displays and so on

In [Setting], you can set up the indications and movements on CG screens.

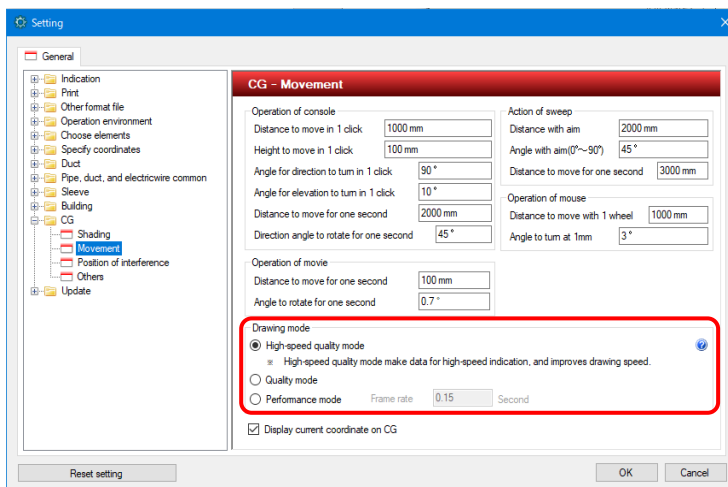


As for "Drawing mode"

"Quality mode": Move a screen after showing all elements.

"Performance mode": Move a screen while drawing the screen.

"High-speed quality mode": Move a screen even in the middle of drawing while keeping the image quality of Quality mode.



5. Print

How to print

You can print Rebro drawings.

① Left-click [Print].

② Select a printer.

③ Select the print color and number of copies in [Output setting].
If you uncheck "Change scale of line class, thickness to print scale", Rebro prints the line types and thickness as specified when drawing, without reference to the printing scale.

④ Select the paper size and printing orientation in [Paper setting].

⑤ Select the enlargement ratio for the drawing in [Print scale].

⑥ Left-click [Print].

Select [Change of print area] to return to the drawing and specify the printing size and position with a mouse.

When printing, you can change the line thickness per scale in [Pen setting].

Printing line thicknesses per scale

Thickness	Remarks	... 1/10	1/20	1/30	1/50	1/100	1/200	1/300	1/400	1/500	1/600	1/601 ...
0.01mm	The thinnest lin...	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
0.05mm		0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
0.07mm		0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07
0.09mm		0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09
0.10mm		0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
0.13mm		0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13
0.15mm		0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15
0.18mm		0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18
0.20mm	Pipe arrange...	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2

Line thicknesses on the drawing

How to print continuously

You can print layouts of multiple Rebro drawings collectively.

①Left-click [Continuous].

②Select a printer.

③Select multiple drawing files in [Addition of file]. You can also select drawing files collectively by specifying a folder with [▼] on the right of the tab.

④Checkmark the layout to print.

⑤Left-click [Print].

Continuous printing

Printer name: [REBRO-01 (USB, 256MB, 100%)]

Output setting: ☒ Monochrome ☐ Color ☐ Gray scale

☐ Print painting
☒ Change scale of line class, thickness to print scale
☒ Print unoperatable layers with original color
☒ Print the external reference data with an original color

Paper setting: Number of copies: 1, Paper size: A4 (210 x 297 mm), Paper direction: ☐ length ☒ width, Paper feed tray: [Auto]

Pen setting: ☒ Equal ☐ Fit to paper

Setting of the offset: ☐ Drawing size: A1(841mm×594mm), ☒ Mark: ☒ Mark: ☒ Mark: ☒ Mark

File name	Layout name	Drawing size	Mark	State
<input checked="" type="checkbox"/> CG-eng.reb	Layout group 1-Whole ground plan	A1(841mm×594mm)	Mark	
<input checked="" type="checkbox"/> CG-eng.reb	Layout group 1-Section plan of pipe	A1(841mm×594mm)	Mark	
<input checked="" type="checkbox"/> CG-eng.reb	Layout group 1-Equipment layout drawing	A1(841mm×594mm)	Mark	
<input checked="" type="checkbox"/> OFFice building-en.reb	Sanitary_Air conditioning,Electricity-5F Sa...	A1(841mm×594mm)	Mark	
<input checked="" type="checkbox"/> OFFice building-en.reb	Sanitary_Air conditioning,Electricity-4F Duct	A1(841mm×594mm)	Mark	
<input checked="" type="checkbox"/> OFFice building-en.reb	Sanitary_Air conditioning,Electricity-RF Ele...	A1(841mm×594mm)	Mark	
<input checked="" type="checkbox"/> OFFice building-en.reb	Sanitary_Air conditioning,Electricity-Groun...	A1(841mm×594mm)	Mark	
<input checked="" type="checkbox"/> OFFice building-en.reb	Sanitary_Air conditioning,Electricity-4 direc...	A1(841mm×594mm)	Mark	

Select all Cancel all Number of drawings(8)

Print Close

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