

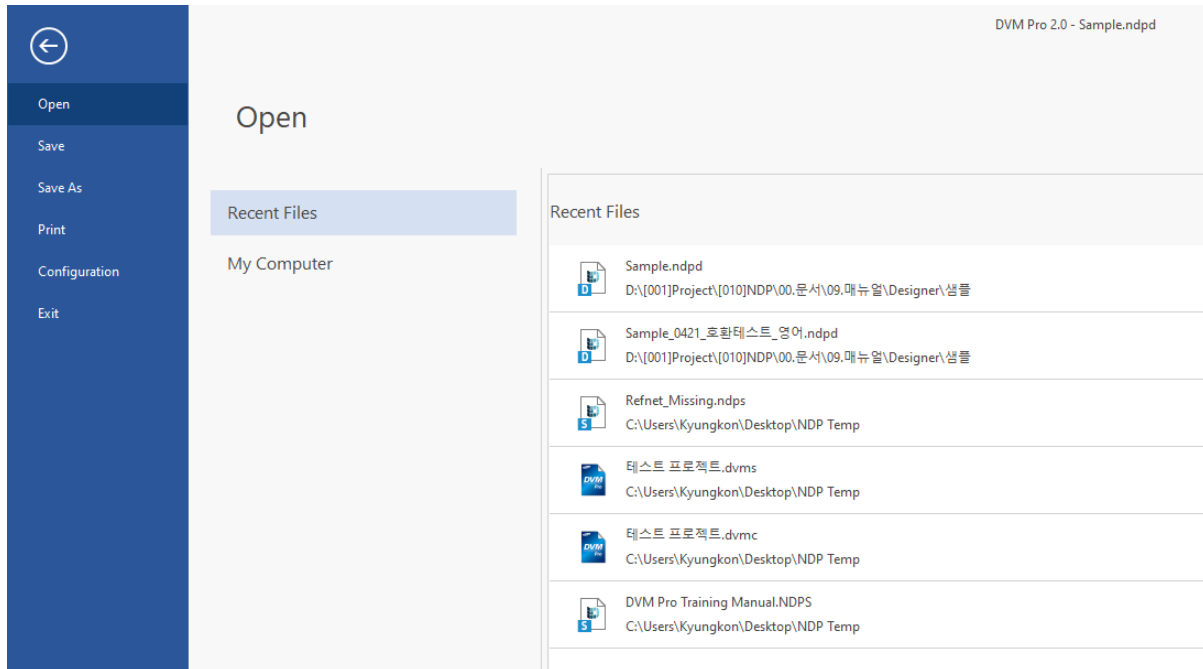
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1. Application Menu

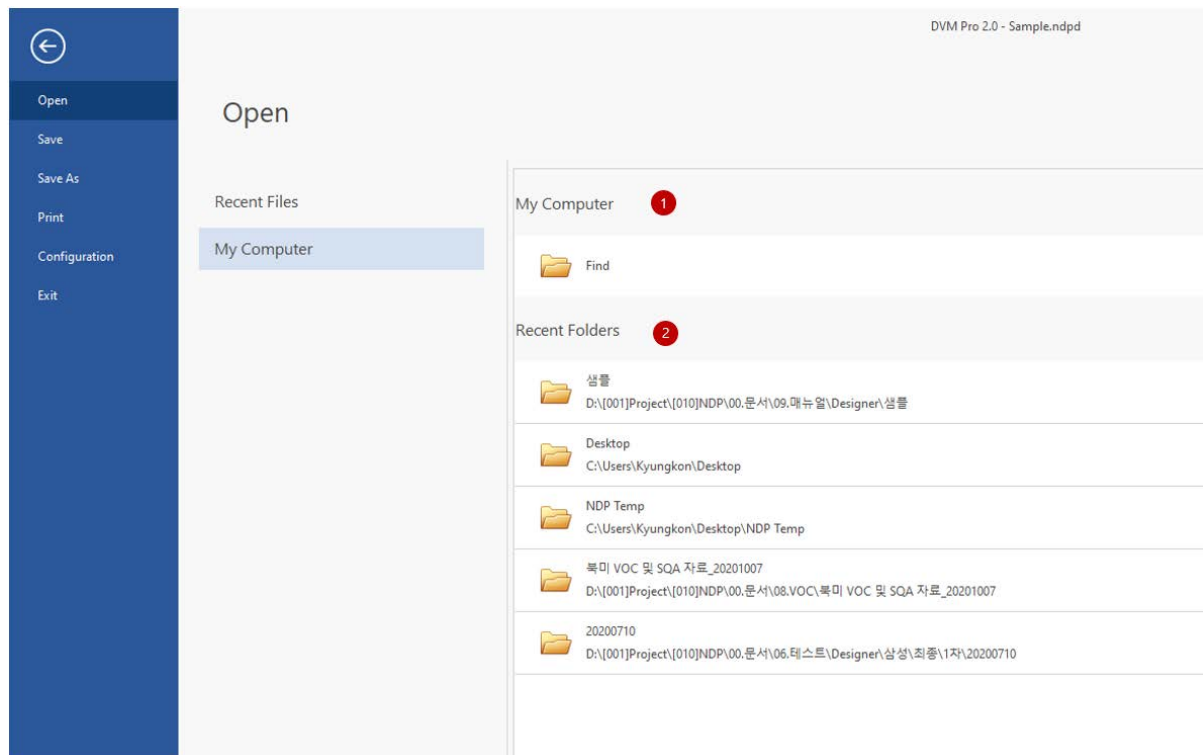
1.1. Open

1.1.1. Recent Files



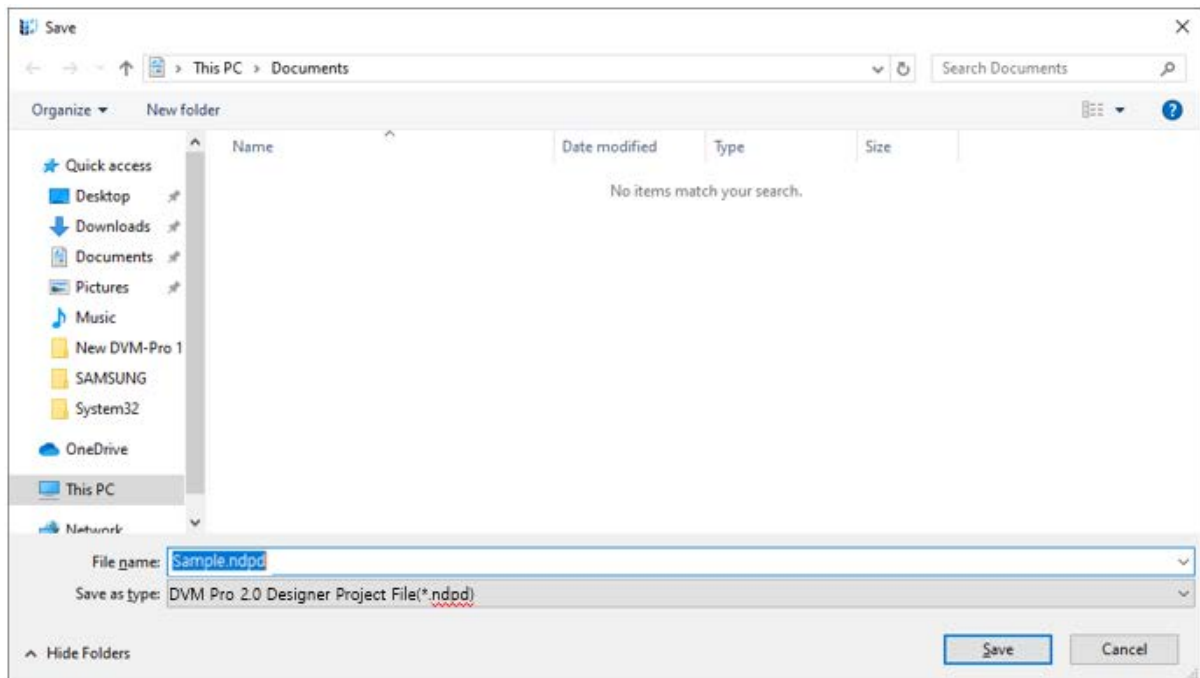
A list of recently worked project files is displayed, and the project file is opened when double-clicked. The number of project files is expressed up to 20.

1.1.2. My Computer



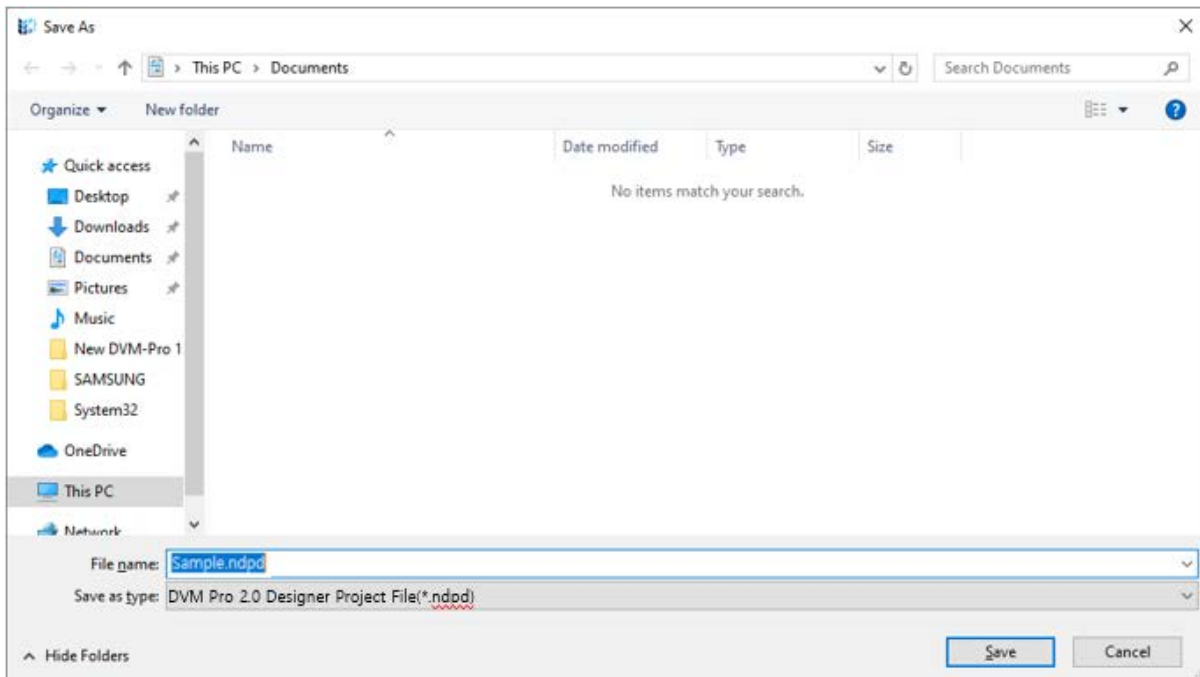
- ① My Computer : The Open window is activated and you can find the project file to open in that Open window.
- ② Recent Folders : Up to 10 lists of recently worked folders are displayed, and the Open window to the folder location clicked on the folder item is activated, making it easier to open project files.

1.2. Save



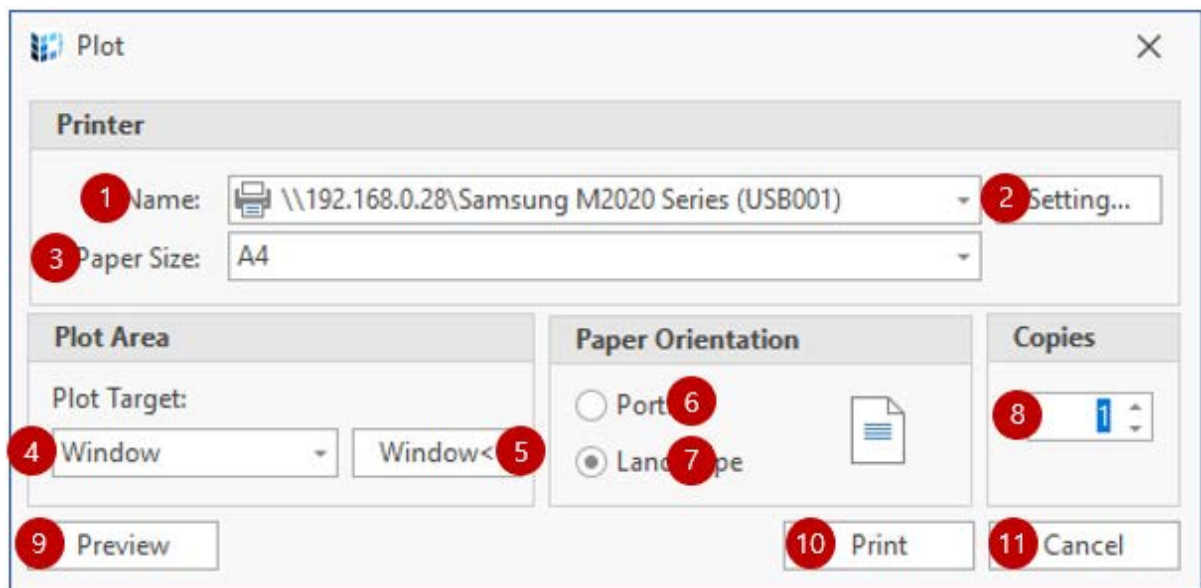
If it is a saved file, the save window is not activated and it is saved.

1.3. Save As

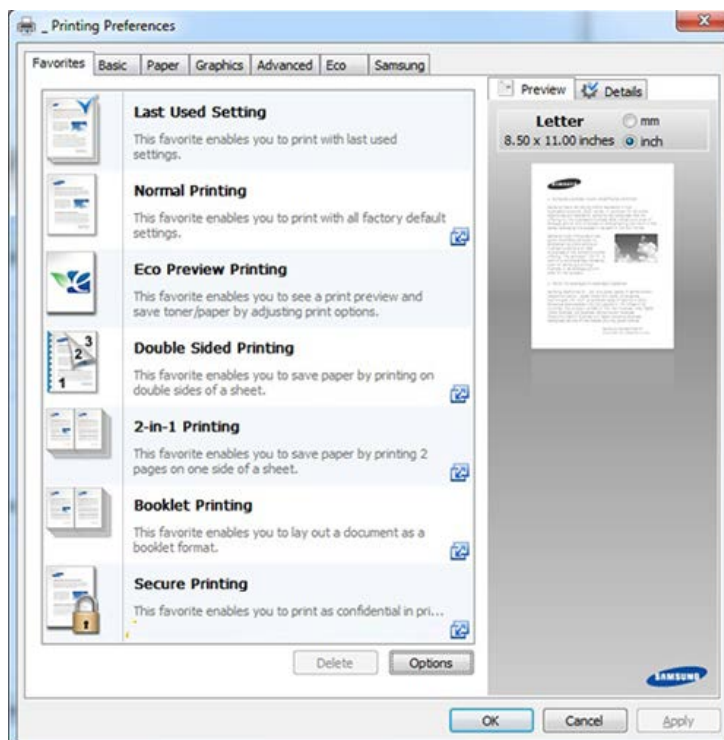


You can save the currently designed project with a different name, whether or not you save it.

1.4. Plot



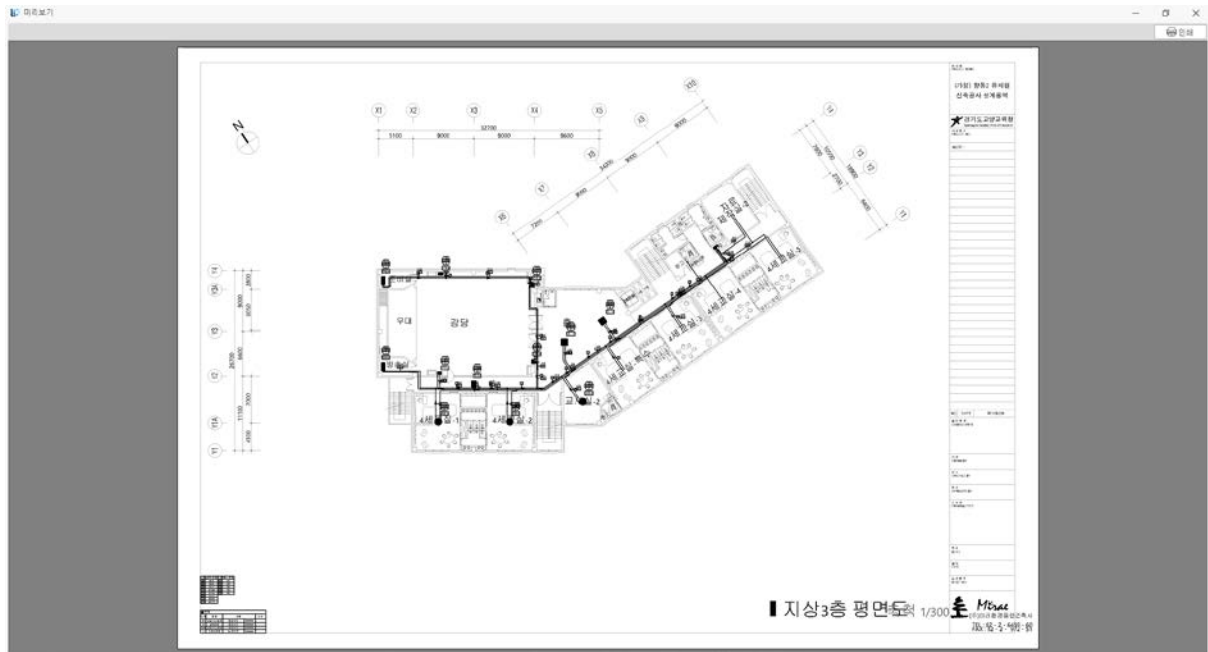
- ① Name : Expresses the printer path to be printed.
- ② Settings : The printer setting OS provided by Window is activated, and you can configure the printer.



- ③ Paper Size : Select the paper size.
- ④ Plot Target : Select the output object (range, screen display, window).
- ⑤ Window : It is displayed only when the plot target is a window. When the button is clicked, the

print window is closed, and you can specify the area to be output (two points) in the drawing. After specifying the area, the print window is activated again.

- ⑥ Portrait : Set the orientation of the paper to be printed vertically.
- ⑦ Landscape : Set the orientation of the paper to be printed Horizontally.
- ⑧ Copies : Set the number of copies.
- ⑨ Preview : You can preview the content to be printed.



- ⑩ Print : When the button is clicked, it prints out and closes the window.
- ⑪ Cancel : Cancel the output and close the window.

1.5. Configuration

1.5.1. General

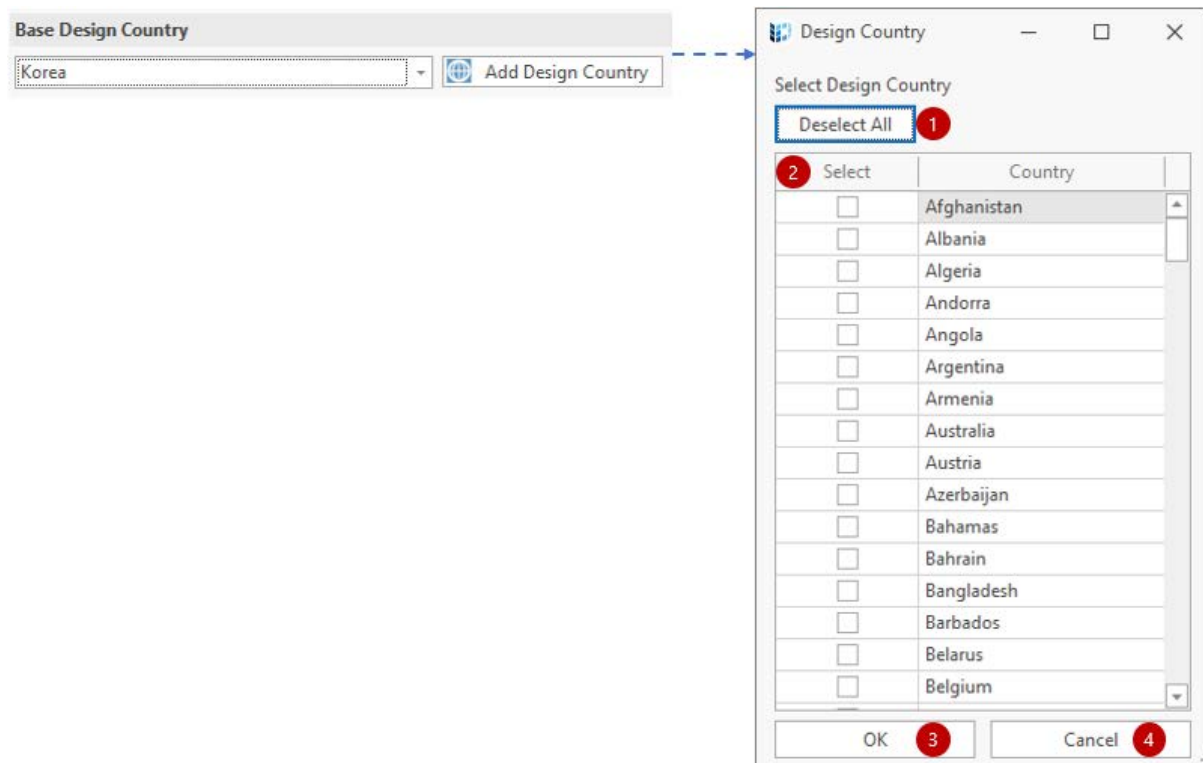
The screenshot shows the 'Configuration' window of DVM Pro 2.0, specifically the 'General' tab. The window has a dark blue sidebar on the left with navigation buttons: Open, Save, Save As, Print, Configuration (highlighted), and Exit. The main area is titled 'Configuration' and contains several sections:

- General**:
 - Base Design Country**: A dropdown menu set to 'Korea' with an 'Add Design Country' button.
 - Language**: A dropdown menu set to 'English'.
 - User image**: A text field containing 'samsung.png'.
 - Auto Save**: A checkbox that is checked.
 - Save Interval**: A spinner set to '5' with a unit of 'Minute'.
 - Save Directory**: A text field showing 'C:\Users\Kyungkon\AppData\Local\Samsung Electronics\NDP\2.0\AutoSave ...'.
- Prefix settings**:
 - Indoor Unit Name**: A text field with 'IDU' and a checked 'Include Room Name' checkbox.
 - System Name**: A text field with 'System'.
 - Room Name**: A text field with 'Room'.
 - MCU Name**: A text field with 'MCU'.
- Outdoor Unit Combination Rate**: A spinner set to '100' with a '%' symbol.
- Design Option**:
 - MCA/MOP display type**: Radio buttons for 'Combination Module' (selected) and 'Single Module'.
 - Pipe Specification**: Radio buttons for 'Use ASTM' (selected) and 'Use Non ASTM'. Below 'Use Non ASTM' is a list of pipe sizes: [25.4(1")/ 38.1(1-1/2")/44.2(1-3/4")].
 - MCU Y-joint(2 ports connection)**: Radio buttons for 'Service Parts Usage' and 'Use Y-joint' (selected).
- Unit**: A table listing various units and their default settings.

Unit	Default
Pipe Length	m
Piping Diameter	mm
Length	mm
Altitude	m
Area	m ²
Volume	m ³
Pressure	Pa
Airflow	CMM
Cooling Capacity	kW
Heating Capacity	kW
Temperature	°C
Weight	kg
Efficiency	W/W
Flow Rate	LPM
Water Pressure	kPa

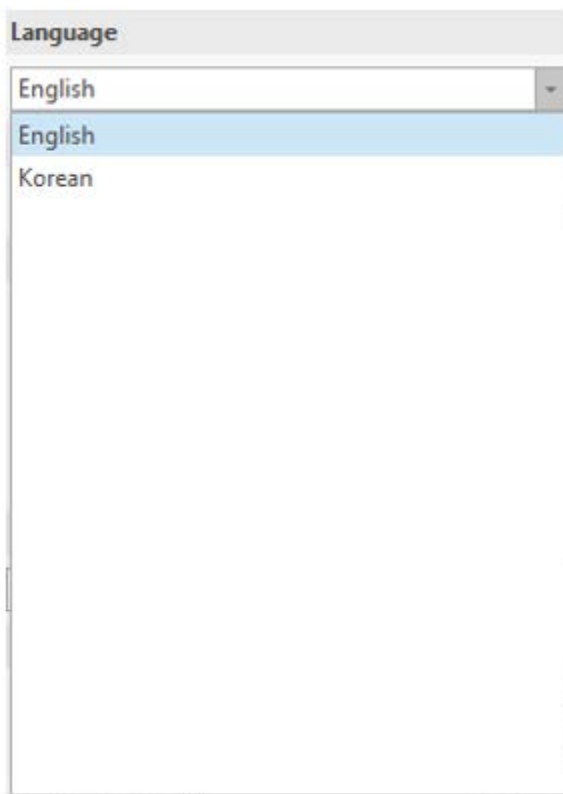
General configuration is the environment setting value commonly used by Sales and Designer, and you can set the default design country, program language, user image, auto save, prefix setting, outdoor unit combination rate, design option, and unit.

1.5.1.1. Base Design Country



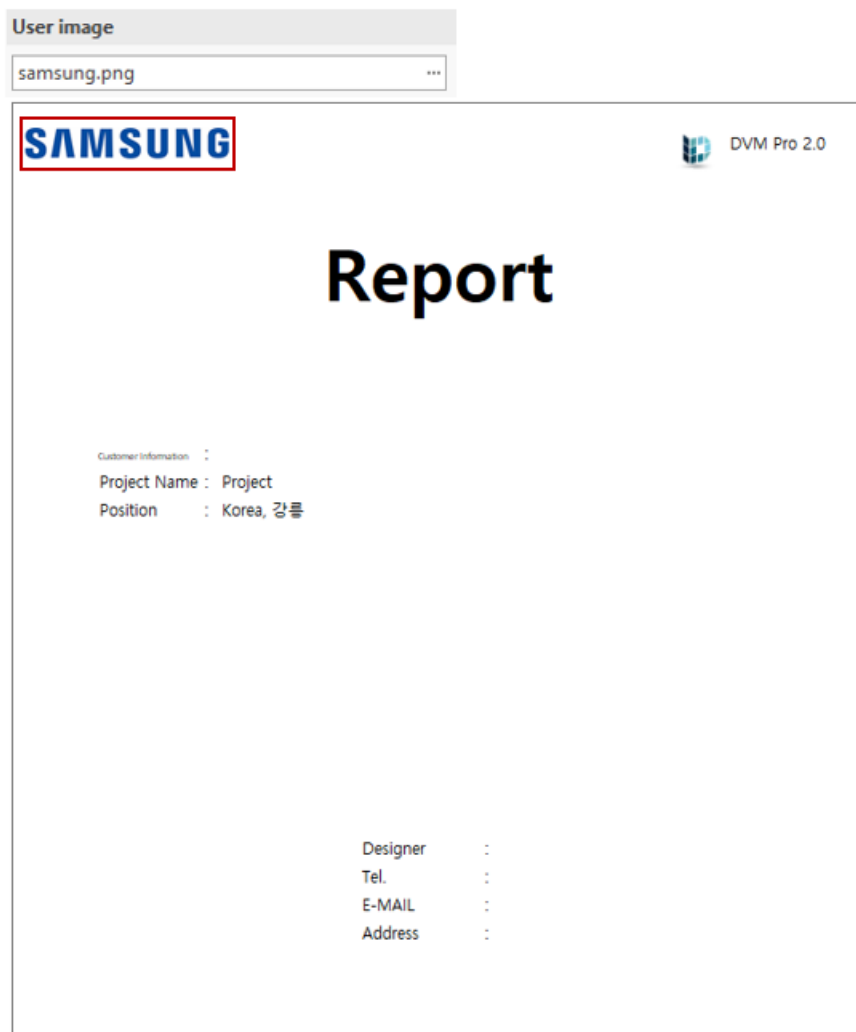
- ① Deselect All : Deselect all selected countries.
- ② Country List : You can see a list of countries and whether they can be designed (selected), and you can add (select) or delete (deselect) designable countries.
- ③ OK : When the button is clicked, the current setting is saved and the database for the added (selected) country is downloaded. When the download is complete, the Design Country window closes.
- ④ Cancel : When the button is clicked, the current setting is canceled without saving.

1.5.1.2. Language



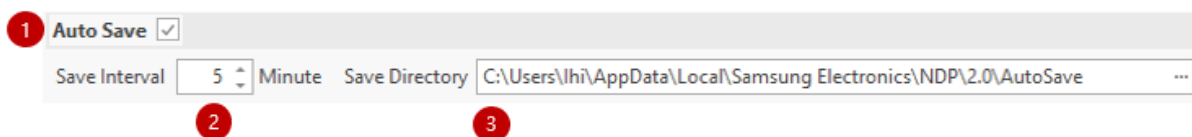
You can set the language of the program. Languages will be added later.

1.5.1.3. User Image



When exporting a basic report, you can set the company logo on the top left of the cover page.

1.5.1.4. Auto Save



- ① Auto Save : You can set whether to automatically save the project file.
 - ② Save Interval : You can set the saving interval in minutes during auto save.
 - ③ Save Directory : You can set the save location when auto save.
- Up to 10 project files are saved in the storage location at each set interval.

1.5.1.5. Prefix Settings

Prefix settings

1 Indoor Unit Name IDU 2 ☒ Include Room Name

System Name System 3

4 Room Name Room

MCU Name MCU 5

System, indoor unit, room, and MCU prefix can be set. You can choose whether to include the room name in the prefix for the indoor unit.

1.5.1.6. Outdoor Unit Combination Rate

Outdoor Unit Combination Rate

100 %

Equipment

Indoor Unit Outdoor Unit Piping Material

Search

DVM S/Heat Pump

Required Condition

Combination Table 2019_고온형 HP_380V_

Usage Condition

Design Condition

Hydro Operating Simultaneously ☒

Maximum Indoor Unit Combination Ratio 100.00 %

Maximum Hydro Combination Ratio 80.00 %

Continuous Cooling Operation under -5°C (23°F) ☐

☐ Altitude 0.00 m

Defrosting Correction ☐

Search

When searching for outdoor units, you can set the default of maximum indoor unit combination ratio in the design conditions.

1.5.1.7. Design Option

Design Option		
MCA/MOP display type ① <input checked="" type="radio"/> Combination Module <input type="radio"/> Single Module	Pipe Specification ② <input checked="" type="radio"/> Use ASTM <input type="radio"/> Use Non ASTM [25.4(1")/ 38.1(1-1/2")/44.2(1-3/4")]	MCU Y-joint(2 ports connection) ③ <input type="radio"/> Service Parts Usage <input checked="" type="radio"/> Use Y-joint

- ① MCA/MOP Display Type : You can set the default value of the circuit breaker expression form of the module outdoor unit.
- ② Pipe Specification : You can set the piping specification to be used when the piping size is increased.
- ③ MCU Y-joint(2 Ports Connection) : When the MCU and indoor unit are connected with 2 ports, you can set the option for Y-joint selection.

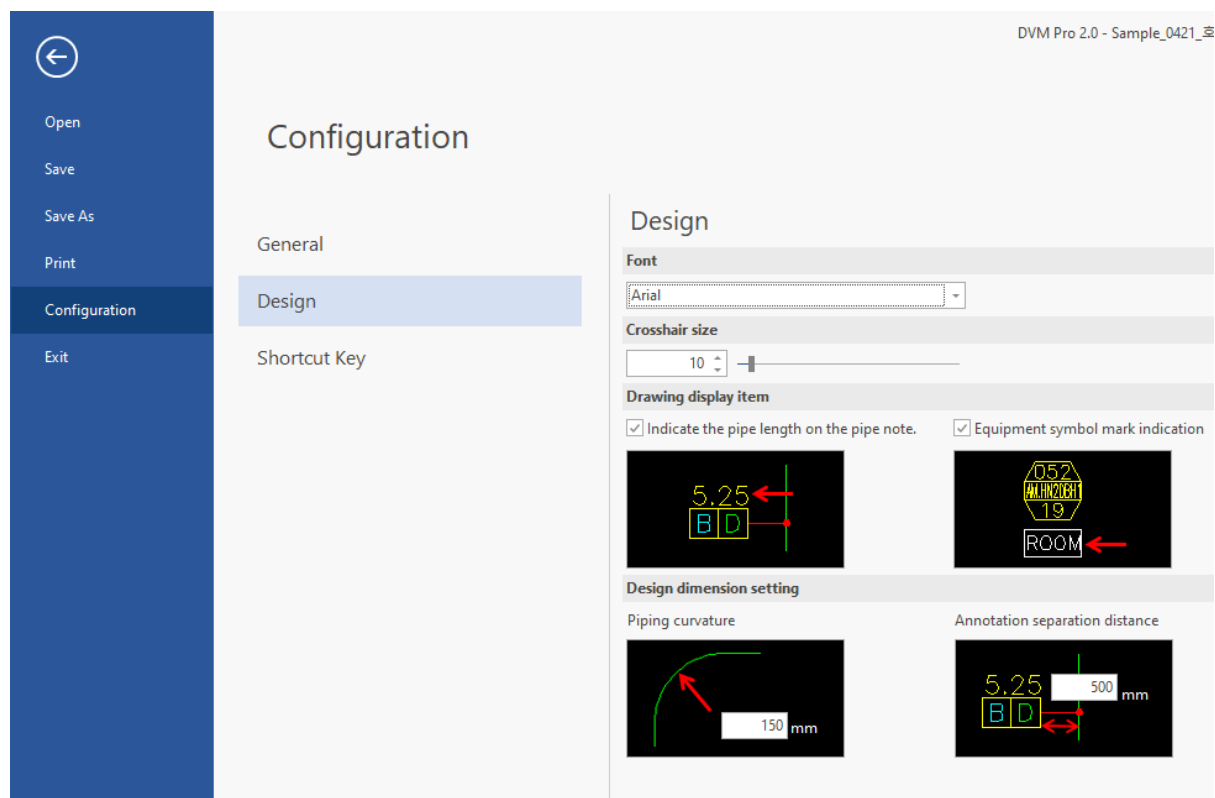
1.5.1.8. Unit

Unit		
Pipe Length	m	<input checked="" type="radio"/> Default to SI unit ① <input type="radio"/> Default to US unit ②
Piping Diameter	mm	
Length	mm	
Altitude	m	
Area	m ²	
Volume	m ³	
Pressure	Pa	
Airflow	CMM	
Cooling Capacity	kW	
Heating Capacity	kW	
Temperature	°C	
Weight	kg	
Efficiency	W/W	

You can set the units used in the program.

- ① Default to SI unit : All units can be initialized to SI units.
- ② Default to US unit : All units can be reset to US units.

1.5.2. Design



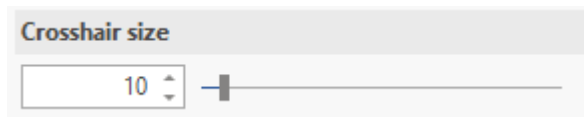
The design environment setting is an environment setting value that is not commonly used with Sales. You can set the font, crosshair size, drawing display items, and design dimension values of the Designer program.

1.5.2.1. Font

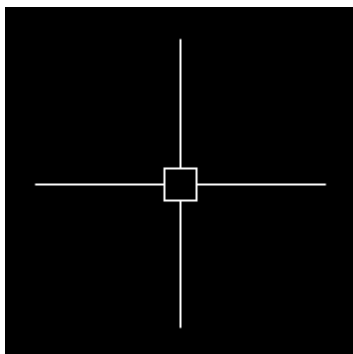


When designating an architectural drawing, set the font to be substituted when an unknown font exists in the architectural drawing.

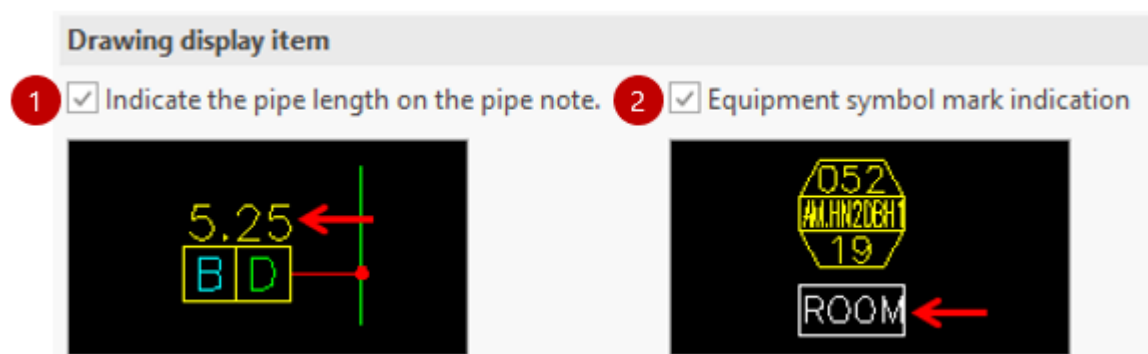
1.5.2.2. Crosshair Size



Sets the size of the crosshairs.



1.5.2.3. Drawing Display Item



① Indicate the pipe length on the pipe note : Sets whether or not the pipe length is represented in the pipe annotation.

② Equipment symbol mark indication : Sets whether to express the name of indoor/outdoor unit in indoor/outdoor symbol.

1.5.2.4. Design Dimension Setting



- ① Piping curvature : When creating a pipe, you set the radius of curvature of the pipe.
- ② Annotation separation distance : Sets the distance between the pipe annotation and the pipe.

1.5.3. Shortcur Key

Set up shortcuts for basic Designer commands.

Shortcut Key		
<div> 1 Reset default 2 Apply </div>		
Shortcut key 3	Original command 4	Description 5
L	LINE	Drawing > Drawing > Line
PL	POLYLINE	Drawing > Drawing > Polyline
RECT	RECTANGLE	Drawing > Drawing > Rectangle
C	CIRCLE	Drawing > Drawing > Circle
T	TEXT	Drawing > Drawing > Text
I	INSERT	Drawing > Drawing > Block
E	ERASE	Drawing > Modify > Erase
CP	COPY	Drawing > Modify > Copy
M	MOVE	Drawing > Modify > Move
RO	ROTATE	Drawing > Modify > Rotate
SC	SCALE	Drawing > Modify > Scale
X	EXPLODE	Drawing > Modify > Explode
S	STRETCH	Drawing > Modify > Stretch
EX	EXTEND	Drawing > Modify > Extend
O	OFFSET	Drawing > Modify > Offset
TR	TRIM	Drawing > Modify > Trim
	COPYCLIP	Drawing > Clipboard > Copy
	CUTCLIP	Drawing > Clipboard > Cut
	PASTECLIP	Drawing > Clipboard > Paste
DI	DIST	Drawing > Measure > Distance
AA	AREA	Drawing > Measure > Area
Z	ZOOM	View > Zoom ratio
ZI	ZOOMIN	View > Zoom in
ZO	ZOOMOUT	View > Zoom out
ZR	ZOOMRECT	View > Zoom window
ZA	ZOOMALL	View > Zoom extents
LA	LAYER	Show/Hide > Layer
	DvmShowObject	Show/Hide > Object
	SNAPANG	Etc. > Snap angle
U	UNDO	Etc. > UNDO
	REDO	Etc. > REDO
SFA	DvmSetFloorEachArea	Design > Space > Specify floor
SBA	DvmSetFloorBlocArea	Design > Space > Specify all floors
SRA	DvmSetRoomEachArea	Design > Space > Specify the room
SDL	DvmDeleteSpace	Design > Space > Delete

- ① Reset default : Delete the shortcut information set by the user and set it to the initial value.
- ② Apply : Apply the set shortcut.
- ③ Shortcut key : You can express and set the shortcut keys of basic commands.
- ④ Original command : Express basic commands.

- ⑤ Discription : Represents the command's menu position.

1.6. Exit

Exit the Designer program.