

Picture Settings

Picture settings

For each picture, it is possible to define a group of parameters such as description, size, background color, bitmap, etc. These parameters are defined in the dialog box opened by clicking the item **Picture settings** from the menu **Settings**. This item is included in the [popup menu](#) opened by pressing the right mouse button on the picture when no graphic object is selected.

The name of the picture, the parameters of which are being defined is displayed in the title bar. But if the default parameters are defined, the picture name is not displayed in the title bar.

Picture Settings - S_DI_Valve - DI - Valve - Gate valve

Description: DI - Valve - Gate valve

Help: |

Window type

☒ MDI window

☐ Dialog

☐ Dock

Color Palette

Size

Width: 819

Height: 548

Minimal size

Width: 0

Height: 0

Maximal size

Width: 0

Height: 0

Background

Background

Logo

Pattern

Draw background

☒ Use Zoom

Attributes

☐ Application-modal

☒ Proportional

☐ Historic coordinate system

☐ Server Script

☐ Hide in HI Lists

☒ Scrollbars when zoom

☒ Minimize box

☒ Maximize box

☒ Border

☐ Invisible

☒ Close

☒ Refresh in HI

☒ Reopen in RD

☐ Close on user change

☒ Min.size for subpicture

Java thread: POOL

Script functions: StdLayout

Picture position in HI

Layers

Num: 1

Assign to components groups

☒ Electrical engineering

☒ Electrical engineering 2

☒ Industrial processes

☐ Others

Navigator

Main:

Previous:

Next:

Export subdirectory

Assign to groups

☐ Alarmy_1

☐ Alarmy_2

☐ Alarmy_3

☐ L1

☐ L2

☐ L3

☐ Workshop

Apply

Apply & Cancel

Cancel

Description

Description of the picture.


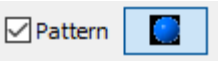
Possibility to use the [Dictionary](#) (to open press **CTRL+L**).

Help

The parameter allows defining a page of [application help](#) to be opened after pressing the F1 key while the picture is active. If the parameter is not defined and the picture is in another picture, the help setting is taken from it. If the picture still has no help, the main application help page setting from the application settings is used. If the parameter is still undefined or the application does not use application help, the title page of D2000 help will be opened.

Basic parameters

The following parameters define the size and background color of the picture.

Parameter	Meaning
Size - Width	Width of the picture (in pixels). Minimum: 10 pixels. The picture dimensions in the HI process can only be changed from the picture script, it is not possible to determine a cut in the picture. In case of a change in picture dimensions, the position and dimensions of the picture elements remain unchanged. This type in the new schemes can be achieved by using the same values for the min and max dimensions of the picture.
Size - Height	Height of the picture (in pixels). The picture dimensions in the HI process can only be changed from the picture script, it is not possible to determine a cut in the picture. In case of a change in picture dimensions, the position and dimensions of the picture elements remain unchanged. This type in the new schemes can be achieved by using the same values for the min and max dimensions of the picture.
Minimal size - Width	Minimal width of the picture (in pixels). If the picture is main, the user cannot change its size out of the range. If the picture is opened as a sub-picture with enabled Min. size for the subpicture parameter, then when its size is changed under this value, a zoom change stops at this point and a scrollbar is added. This behaviour does not apply if in that sub-picture set the user zoom. If the min and max sizes of the picture are set to the same value, it has special behaviour. A picture margin does not allow to change in width and height. The minimum dimensions are not accepted and the picture reduced from the script does not get scrollbars.
Minimal size - Height	Minimal height of the picture (in pixels). If the picture is main, the user cannot change its size out of the range. If the picture is opened as a sub-picture with enabled Min. size for the subpicture parameter, then when its size is changed under this value, a zoom change stops at this point and a scrollbar is added. This behaviour does not apply if in that sub-picture set the user zoom. If the min and max sizes of the picture are set to the same value, it has special behaviour. A picture margin does not allow to change in width and height. The minimum dimensions are not accepted and the picture reduced from the script does not get scrollbars.
Maximal size - Width	The maximum width of the graphical picture in points (x-dimension). If the picture is opened as a master picture, the user can not change its size beyond this dimension. If the value is 0, the maximum dimension of the picture is given by the monitor size but at least to the value of 1920.
Maximal size - Height	The maximum height of the graphical picture in points (y-dimension). If the picture is opened as a master picture, the user can not change its size beyond this dimension. If the value is 0, the maximum dimension of the picture is given by the monitor size but at least to the value of 1200.
Background - Color	<p>Selection of background color and a color gradient of the picture.</p>  <p>The basic underlying color of the scheme is specified, followed by the Gradient Select button and the gradient color selection button. If no gradient is selected, the gradient color button is crossed out and inactive. Pressing the gradient box opens a window allowing you to select the gradient fill type (more ...).</p>
Background - Pattern	<p>Selection of color for the picture background.</p>  <p>The bitmap is selected from a list of bitmaps. Restrictions of the operating system are applied to this bitmap.</p>

* Exception for pictures with title bar - minimum size is 100 pixels (a feature of the Windows operating system).

The process [D2000 GrEditor](#) also allows the user to resize the picture in another ways than in the dialog box above mentioned. This way is described in the topic [Resize a picture](#).

Bitmaps

The configuration dialog box allows defining two bitmaps - a picture background and a logo placed in the picture foreground.

Parameter	Meaning
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Background - bitmap	Selection of a bitmap for the picture background (see the topic Selection of a background bitmap).
Background - position	Selection of a background bitmap position (stretch, centre, up, down, left up, left down, right up, right down).
Logo - bitmap	Selection of a bitmap (logo) for the picture. The logo is drawn over the other graphic objects in the picture.
Logo - position	Selection of a position for the logo bitmap (centre, left up, left down, right up, right down).
Use zoom	When drawing a background, use zoom from the windows.

A list for the second bitmap (logo) contains all bitmaps placed in the directory **BITMAPS** (a subdirectory of the [application directory](#)).

Warning: The bitmap to be used, must be placed in the directory **BIGBMP** and the bitmap (logo) in the directory **BITMAPS** (subdirectories of the [application directory](#)). Those files must be BMP files.

Window type

The parameters define a type of window containing the picture contents and its behaviour. The default setting is the MDI window on the desktop of the process [D2000 HI](#).

Parameter	Meaning
MDI window	The picture window is placed on the HI desktop as a common window (so-called MDI window).
Dialog	<p><i>Dialog window</i> type. In the process, D2000 HI, an opened picture of this type is placed above all opened graphic information windows (graphs, reports, pictures – non-dialog).</p> <p>When the radio button is selected, there will appear the checkbox Modal - the picture is a <i>Dialog-modal window</i> type.</p> <p><input checked="" type="radio"/> Dialog <input type="checkbox"/> Modal</p> <p>If this picture is opened in the HI process, it is possible to control only this picture not the other objects of HI process.</p>
Dock	<p>The radio button allows a user in the process D2000 HI to dock the picture to the given margin of the D2000 HI desktop. When you click on the radio button, the placement menu appears. They represent the margins of the HI desktop.</p> <p><input type="radio"/> Dialog <input checked="" type="radio"/> Dock Placement: Up ▼</p>

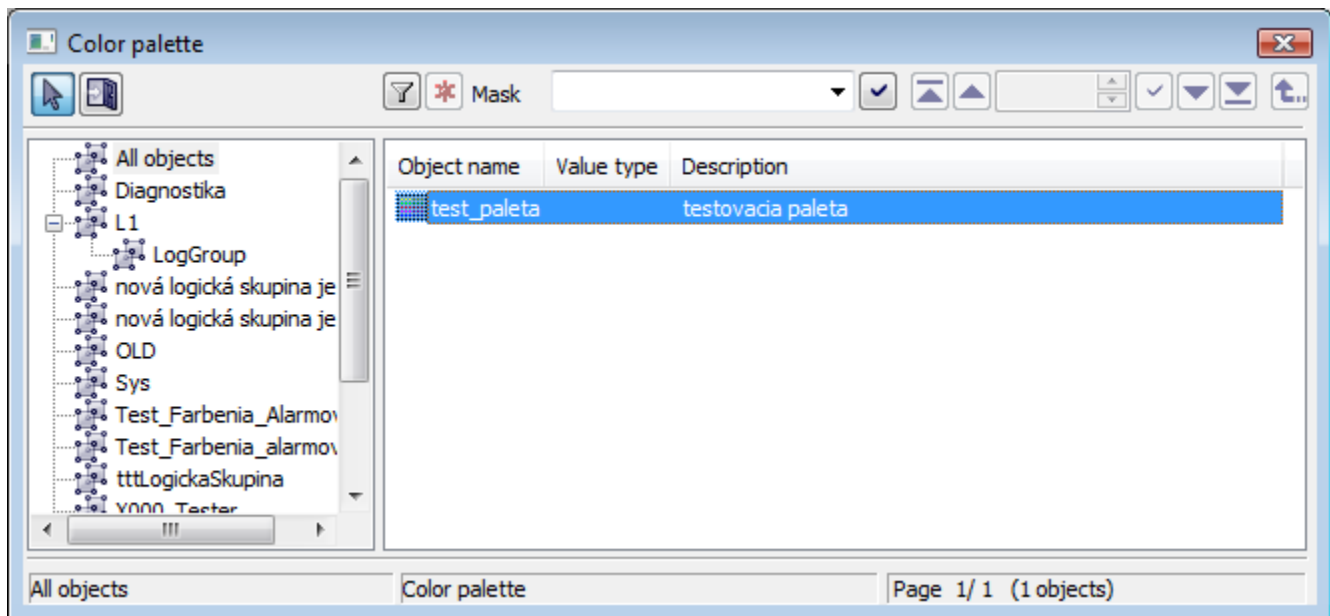
Color palette

This parameter enables to select a color palette that will be used for a given picture. To select the required palette, click the button next to the entry field.

Color Palette

▼

The dialog window for the selection of the required palette opens:



Attributes

They define the special features of the picture.

Parameter	Meaning
Application-modal	The picture can be opened only once in the system. The feature can be used in an application with several HI consoles (processes).
Proportional	Keeps the aspect ratio of the picture in the window
Min. size for the subpicture	Specifies whether to apply the minimum size even when the picture is opened as a subpicture.
Historic coordinate system	Enables/disables the original (historical) coordinate system - the 0, 0 point is placed at the corner left bottom. The new coordinate system has the 0, 0 point placed at the upper left corner. Note: The parameter can be edited only by the user with administrator rights.
Server Script	Enables/disables the remote ESL script .
Invisible	The picture will be invisible after opening. It can be used as a user's control script carrier.
Hide in HI lists	The picture will be visible only to the users with administrator rights. For the others, it will be hidden.
Refresh in HI	If the picture is opened in the process D2000 HI , it will be automatically reopened after saving any changes in the process D2000 GrEditor .
Reopen in RD	The parameter may be used only for the application in a redundant system . If the picture is opened in the process D2000 HI , it will be reopened after changing the HOT server.
Scrollbars when zoom	Displays the scrollbars in the window when the picture is zoomed. If the shift in zoom is disabled, the shift is possible through SHIFT+left mouse button+ movement.
Minimize box*	Enables/disables the minimize button in the title bar of the picture.
Maximize box*	Enables/disables the maximize button in the title bar of the picture. For the fixed-size pictures, the button is always disabled.
Border	Enables/disables border around the picture.
Close*	Disables the close button in the title bar of the picture.
Close on user change	The picture will be closed when the user is changed or logged off.

Java thread	<ul style="list-style-type: none"> • SWT 1) - the user code of the picture will be executed in the SWT thread, i.e. all pictures with this setting share this thread. SWT library requires executing any callings from this thread. • Own - each picture has its own thread to execute the user code. • SWING 1) - the user code of the picture will be executed in the AWT/SWING thread (Event Dispatch Thread), i.e. all pictures with this setting share this thread. SWING library requires executing any callings from this thread. • POOL - recommended - thread, on which a picture code will be executed, is allocated automatically from a pool of threads
Scrip functions	<p>Parameter was created to ensure backward compatibility of behavior of positional functions (%HI_SetPos*, %HI_GetPos*, %HI_SetSize*, %HI_GetSize*) in the existing ESL/Java scripts.</p> <ul style="list-style-type: none"> • Zoom - functions behave compatibly with the pictures that were in previous versions of D2000 - the types <i>Resize with zoom</i> and <i>Resize with layers</i>. • Layout - functions behave compatibly with the pictures that were of type <i>Resize with a layout manager</i>. • StdLayout - standard behavior, explained in the descriptions of each function.

* If both minimize and maximize checkboxes are not checked off, the picture does not contain these buttons. If one of them is checked off, both are visible but the disabled button is inactive.

(Note: The above-mentioned is not applied to the pictures opened in other pictures - because these pictures do not have a title bar).

If the picture is opened in the D2000 HI, minimize, maximize and close buttons are placed in the upper right corner.

1) WARNING: If SWT or SWING thread is set on a picture, the functions that require communication with the **D2000 Server** cannot be called from this picture. Moreover, the synchronous requests on D2000 HI cannot be called. An attempt for calling these functions causes the exception RuntimeException ("WrongThread"). It relates to these functions:

- all functions %HI_GetXXX,
- getObjectByHOBJ
- getObjectByName
- openObjectByHOBJ
- openObjectByName
- callESLSync
- callJavaSync
- setConnectedObj
- openPictureDirectSyncXXX
- getArchArr
- getArchiveValues

Layers

A picture may have from one to ten layers. If the number is greater than 1, then there are entered the parameters of the layers (number and ratio of reduction (as in the scale maps), the range, from which the layer is visible, e.g. 5 means a drawing ratio of 1: 5). The basic first layer has a resolution for zoom 1: 1 - e.g. picture resolution 8000:6000, in which the picture is drawn.

Transformation

The parameters define behaviour of the picture in the process [D2000 HI](#).

If the picture size is greater than the maximum size of the monitor, then the size of the picture that is being opened in the process [D2000 HI](#) will be automatically adjusted to the permitted maximum size in this process.

The exception is the monitors with a size of less than 1920x1200. For such monitors, the maximum is set to 1920x1200.

Picture position in HI



The parameter defines the position of the picture on the desktop after opening the process [D2000 HI](#) and its behaviour when it is resized. There are several positions on the HI desktop.



The first position places the picture opened in HI in the centre of the desktop in the original picture size. Other positions change the picture size to fill the selected part of the HI desktop. The position and relative size of the picture are represented by the red rectangle.

Assign to groups

The assigning of the picture to groups allows for specifying the groups to which the picture will belong. Select a group in the list and click the buttons to assign/remove the picture to/from the group.

	Includes a picture in the selected logical group.
	Excludes a picture from the selected logical group.


Navigator

For the picture opened in HI, it is possible to define a main, previous and next picture/composition, which are being opened by means of the [navigation toolbar](#).

Parameter	Meaning
Main	Starting picture/composition.
Previous	Previous picture/composition.
Next	Next picture/composition.

Export subdirectory

Setting the export subdirectory can be done in two ways:

1. Direct entering to the edit field.
2. Clicking the button  which opens the window to search the required directory with CVS.
Click the **OK** button to confirm your selection. If the CVS subdirectory with the *Repository file* is not placed in that directory, the user can cancel the action or use the selected path but without the path to the [XML Repository folder](#) at the beginning. This path will occur in the edit field.



Related pages:

[Default picture settings](#)
[Selection of a background bitmap](#)
[Picture layers](#)