

POLYWALL
ANY SOURCE ON ANY DISPLAY

Operator Manual

Version 2.607

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Content

Basic definitions and abbreviations	4
Get started.....	5
Change of displaying units layout	6
Scale change	6
Content.....	6
Content display	7
Software sources	7
Hardware sources	7
Management of Polywall sources	7
Drawing over the sources	8
PDF.....	8
Video	8
Microsoft PowerPoint	8
Microsoft Word	9
Microsoft Excel.....	9
Web-page	9
Image.....	9
VNC	9
Hardware source.....	9
Streaming video.....	9
Polywall source characteristics	9
Additional data about the source	9
Create source.....	11
Scenario	12
Create scenario	12
Scene creating	12
Filling in scene content.....	12
Preliminary setting of scene sources.....	13
Linking the scenes	13
Linking types.....	13
Parallel scenarios in scenario graph.....	13
Scene management.....	14
Scene naming.....	14

Setting of scene display duration.....	14
Save scenario	14
Scenario display	15
Scenario display with possibility to select 'Play scene'	15
Scenario display with each scene timing.....	15
Stop scenario display.....	15
Open scenario	15
Schedule	16
Save schedule	16
Stop scenario display.....	16
Contacts	16

Basic definitions and abbreviations

Term	Definition
Designer	Web-interface to operate with displaying units downloaded through Mozilla Firefox browser.
Displaying tool or Display	Video wall or standard display.
Content	Information content that includes some data.
Scene	Functional content of displaying tool in a certain period of time containing the name and data sources.
Scenario and User's scenario	A set of connected scenes. The scenarios are needed for content preparation beforehand.
Repository	File storage in computer available for the further use.



Get started

Open Mozilla Firefox browser and enter in address line
'Server IP-address:8080/Polywall/designer'.
Polywall Designer interface will be opened.



Polywall Designer contains 4 sections.

Section **'Live'** and **'Files'** opened.

'Live'. Displays data loaded through displaying units at the moment.

'Files'. The section contains files/sources directories available for view.

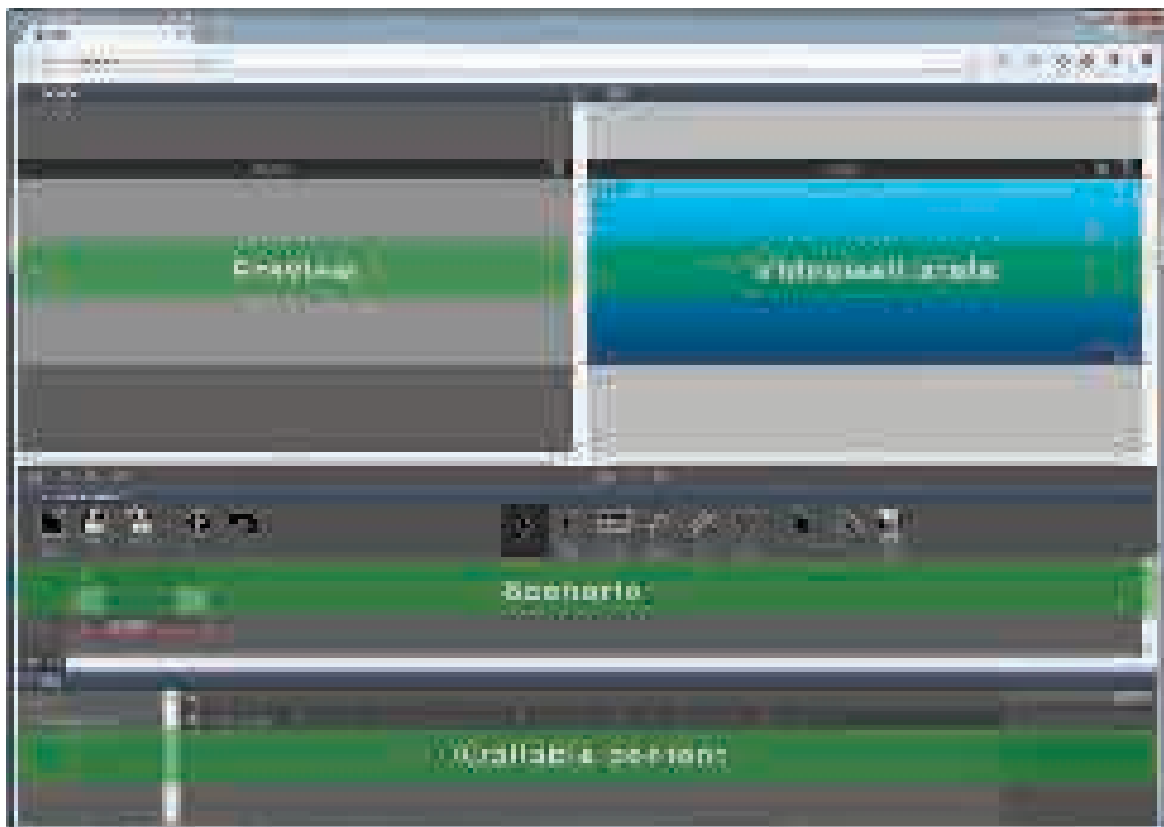


Sections **'Scenario'** and **'Preview'** are hidden.

'Scenario'. Intended for scenario planning and saving to display the content.

'Preview'. Intended for preliminary scene preview.

Full Polywall Designer interface contains:

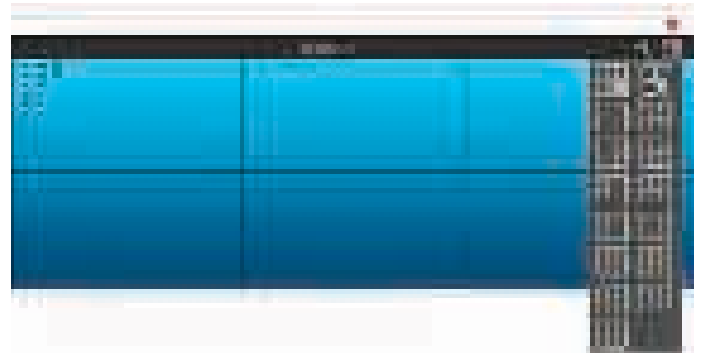


Change of displaying units layout

The section 'Live' shows available displaying tools.

Find the layout button on the dashboard and choose the needed layout.

Layouts available will change depending in video wall configuration.



Free movement of image at displaying source.



Movement of image at displaying source to grid.

Scale change

In the left lower corner of 'Live' section is located a scale panel with the next functionality:

- return to default scale at the Designer screen;
- zoom out of displaying units at the Designer screen;
- zoom in of displaying units at the Designer screen.



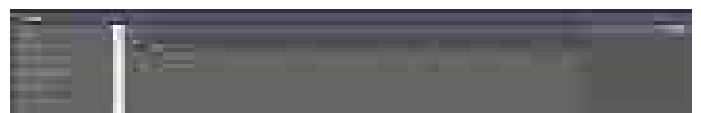
Content

Content available for displaying is located in section 'Files' in the bottom of Polywall Designer.

The left corner contains the available repository. They vary depending on configuration of your system.

- '**Local computer**' is a folder in operator computer.
- '**Schedule**' is intended to show scenario schedules available in this folder/server.
- '**Hardware sources**' contain a set of hardware sources.

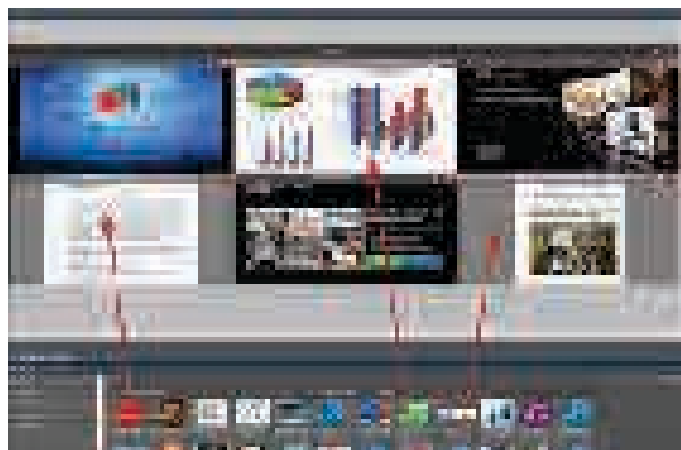
All the other folders can be located at the other computers.



Content display

Move the needed content to the displaying tool.

Move the content to the required place at the display in needed.



The following types of displaying sources are supported:

Software sources	Hardware sources
MS Office (DOC, XLS, PPT, DOCX, XLSX, PPTX);	Hardware RGB-source;
Image (JPG, JPEG, BMP, GIF, PNG);	Computer, server station;
Video-file (AVI, MPEG, WMV, 3GP, 3G2, MOV, AVI, MPG, ,MPEG, MP4, FLV, MKV);	Video-conference communication terminal;
Web-pages, Web-applications;	Document-camera;
Video scream from IP cameras (RTSP, H.264);	Video camera (hardware video-source);
Remote desktop (VNC Viewer);	DVD-player;
PDF.	TV-tuner.

Management of Polywall sources

Push the button with cursor and manage the content.

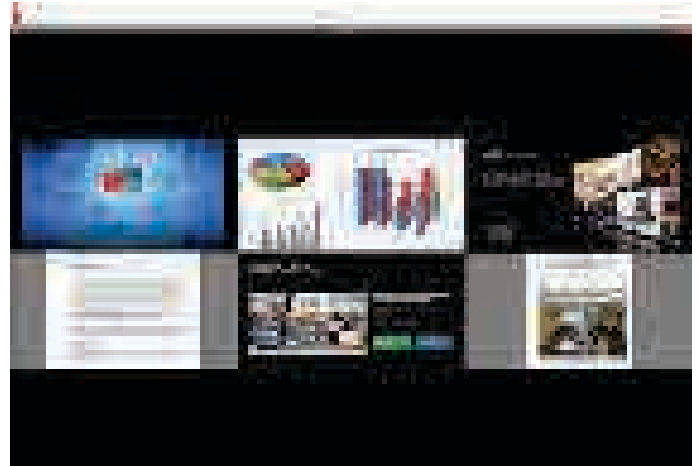


Drawing over the sources

During management of Polywall sources push the market icon in the left upper corner.

The next functions are available:

- Instrument selection: marker and eraser;
- Colour selection: red, green and blue;
- Thickness selection: 1, 3, 5, 10, 20, 30;
- Full erasing of all drawn at the display;
- Cancel of full erasing.



Polywall system provides its control elements for each source type. Control elements are shown during selection of displaying source at display.

PDF. Functionality:

- document navigation in 4 directions using arrows;
- scaling using '+' and '-' buttons;
- shift to page up/down using '▷▷' and '◁◁' buttons;
- shift to first/last page using '◁◁◁' and '▷▷▷' buttons.



Video. Functionality:

- video Rewind forward/back using '◁◁' and '▷▷' buttons;
- Pause button '⏸';
- Stop button '■';
- Reverse button '▷'.



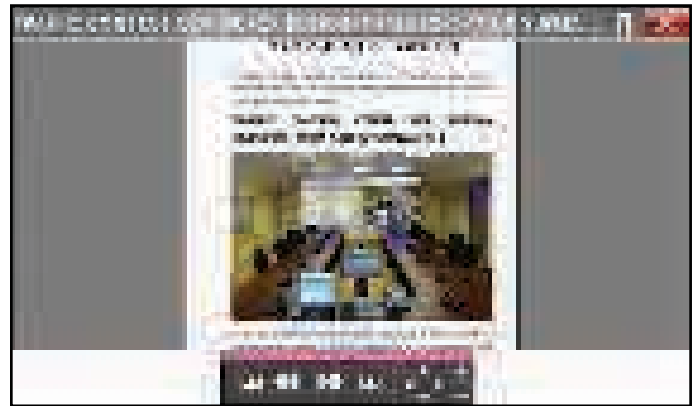
Microsoft PowerPoint. Functionality:

- shift to page up/down using '▷' and '◁' buttons;
- shift to first/last page using '◁◁' and '▷▷' buttons.



Microsoft Word. Functionality:

- document navigation in 4 directions using arrows;
- scaling using '+' and '-' buttons;
- shift to page up/down using '▷▷' and '◁◁' buttons;
- shift to first/last page using '◁◁◁' and '▷▷▷' buttons.



Microsoft Excel. Functionality:

- document navigation in 4 directions using arrows;
- scaling using '+' and '-' buttons;
- shift to page up/down using '▷▷' and '◁◁' buttons;
- shift to first/last page using '◁◁◁' and '▷▷▷' buttons.



Web-page. Functionality:

- Web-page navigation in 4 directions using arrows;
- scaling using '+' and '-' buttons.



Control panels are absent for **Image**, **VNC** и **Hardware source** source types.

Control panel contains no functionality for source **Streaming video**.

Polywall source characteristics

Additional data about the source

Push the settings button at the panel with the source name. Data source characteristics depend on the data format.



Field	Definition	Where to use
Aspect ratio	The type of the display source: the source has an original aspect or is extended along the window width.	VNC
Bottom_y	Y-coordinate of the right lower pixel is to cut a source image. The coordinate is ranged from 0 to initial size.	VNC Video Image Video stream
Duration	Duration of video-record.	Video
Group (sync. sheet.)	Several presentations with the same value 'Group of synchronous sheets' can be flipped simultaneously, using buttons '<' and '>'. Acceptable values are digits.	Microsoft PowerPoint
Height	Original height of a source image.	Microsoft Word Microsoft PowerPoint PDF VNC Hardware sources Web-page Video Image Video stream
Input number	This parameter is responsible for controller input number the source is connected with.	Hardware sources
Keep aspect ratio	The type of the display source: the source has an original aspect or is extended along the window width.	Hardware sources Image
Left_x	X-coordinate of the left upper pixel of streaming video image is to cut a source image.	VNC Video Image Video stream
Looap All	Replay of source displaying.	Video
Origin size	Original size (image resolution) of the data source.	Video Image
Pages count	Number of pages in file.	Microsoft Word Microsoft PowerPoint PDF
Right_x	X-coordinate of the right lower pixel of streaming video image is to cut a source image. The coordinate is ranged from 0 to initial size.	VNC Video Image Video stream
Scale	This parameter is responsible for document scaling during displaying.	Microsoft Excel Microsoft Word PDF Web-page
Sheets count	Number of pages in file.	Microsoft Excel
Size	Original size (image resolution) of the data source.	PDF Video stream
Source size	Image resolution of a source data.	Hardware sources

Field	Definition	Where to use
Top_y	Y-coordinate of the left upper pixel of streaming video image is to cut a source image.	VNC Video Image Video stream
Width	Original width of a source image.	Microsoft Word Microsoft PowerPoint PDF VNC Web-page Video Image Video stream
X	There is a possibility to place several data sources on a displaying device. X – X-coordinate of the left upper pixel on a displaying source.	Microsoft Word Microsoft PowerPoint PDF VNC Hardware sources Web-page Video Image Video stream
Y	There is a possibility to place several data sources on a displaying unit. Y – Y-coordinate of the left upper pixel image on a displaying unit.	Microsoft Word Microsoft PowerPoint PDF VNC Hardware sources Web-page Video Image Video stream

Create source

At the files-sources control panel push the **‘Create source’** button.

Select source type:

- Video-stream,
- Web-page,
- VNC protocol.



The settings of the created source depend on the selected source type.

If the source is password protected push '**Secure access**' and enter login (if any) and password to the corresponding fields. Basic authorization is supported for web-pages.

Rules to fill in the field '**Path**' for sources:

- Web-page: Url-address as 'http://...';
- VNC Protocol: IP-address of computer;
- Video stream: URL address as 'rtsp://IP-source_address:port/name'.



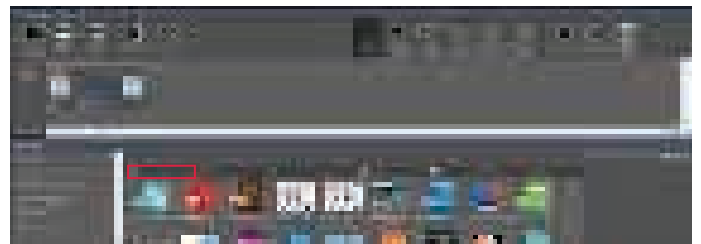
Scenario

To create a scenario create scenes, fill them with the needed content and link them.

Create scenario

At the files control panel press the '**Create scenario**' button.

In the opened section '**Scenario**' the first scene will be created at default.

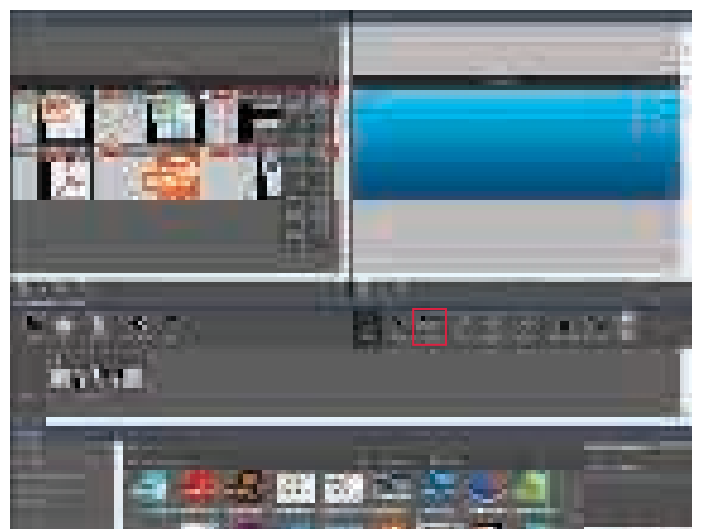


Scene creating

Select "**Create scene**" instrument and push mouse in the free space of '**Scenario**' section.

Filling in scene content

In '**Preview**' section select layout for available display units and drag the needed content into the selected layout of each pixel.



Preliminary setting of scene sources

Push the source setting button.



Data sources characteristics in preliminary setting are equal to source characteristics during displaying (see Polywall source characteristics) and depend on data format.

Below the additional setting are provided for preview.

Field	Definition	Where to use
Auto start	Automatic display of video file during the next scene show.	Video
Start page	Select page number to start the display of the file.	Microsoft Word PDF
Start slide	Select slide number to start the display of the presentation.	Microsoft PowerPoint

Linking the scenes

Select '**Link scenario**' instrument and connect 2 scenes in the scenario graph.



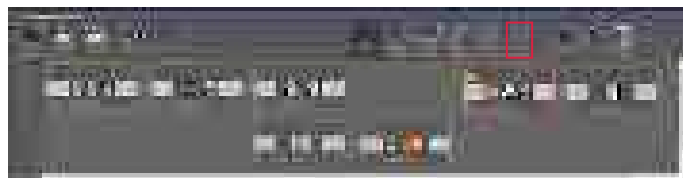
Linking types

Linking can be basic and alternative. In case of several scenario variants the scene with basic link will be displayed.

Push '**Set default link**' button to set the existing link as default.

Parallel scenarios in scenario graph

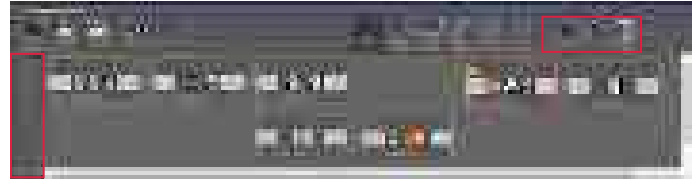
Select one of parallel scenarios and set the first scene using '**Set first scene**' button.



Scene management

It is possible to scale both the content of 'Scenario' section and the section 'Scenario' itself.

The copy, paste, scene erase, and select one or several scenario elements functions are provided.



Scene naming

Push left mouse button to the grey field of scene heading and enter scene name.

Setting of scene display duration

In the lower part of the scene set timing for scene display according to schedule.



Time setting does not affect the scenario display from the edit window.

Save scenario

After content layout is set push 'Save' or 'Save as' button.

Select directory and file name.

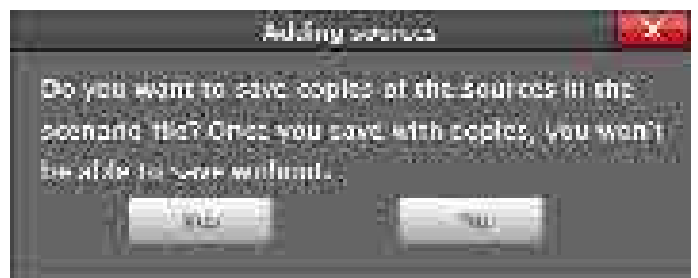


Save source copies in the scenario file.



Without source copies you will not be able to:

- rename sources ,
- move sources to other directory.

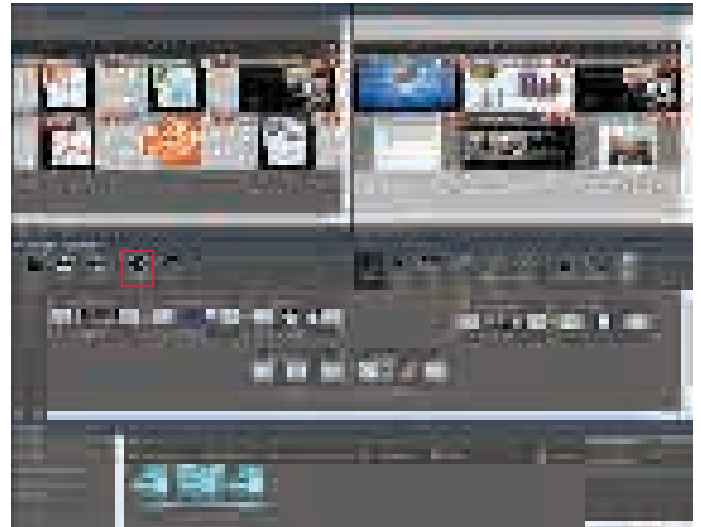


Scenario display

Scenario display with possibility to select 'Play scene'

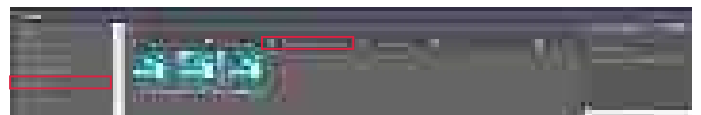
Select scene and push '**Play scene**' and the content will be displayed on the display unit in the selected place.

In subsequent push '**Play scene**' button the next scene will be displayed.



Scenario display with each scene timing

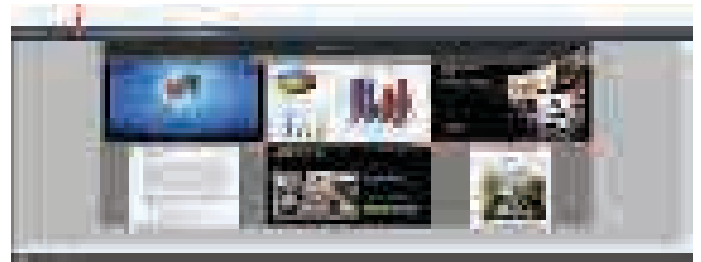
In repository '**Schedule**' select the scenario and push '**Start showing scenario**' button at the control panel.



Stop scenario display

During the scenario displaying in '**Display**' section the information will be provided on which scenario and scene are shown at displays.

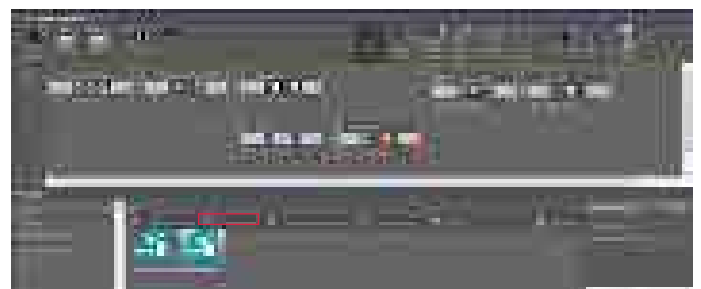
In order to stop displaying push the button close displaying.



Open scenario

Select a file with scenario in directory and push '**Edit scenario**' button.

Selected scenario will be opened in scenario graph.

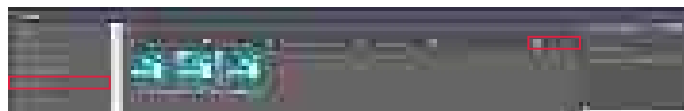


Schedule

Schedule is created at the current day. By the end of the current day the last scenario from schedule is shown until it is closed in Designer. After the Designer tab is closed the scenario display will continue as scheduled.

Each schedule record contains start time of displaying scenario and its name. All the scenarios in repository 'Schedule' are available for schedule creation.

Select directory '**Schedule**' and push '**Schedule**' button.



Each schedule record can be added or deleted.

Save schedule

Save schedule editing.

After 'Save' button is pushed the records will be saved and sorted in order they are shown at displays.



Stop scenario display

During the scenario displaying in 'Display' section the information will be provided on which scenario and scene are shown at displays.

In order to stop displaying push the button close displaying.



Contacts

Address 29 bld.1, Krzhizhanovskogo str.,
Moscow, 117218, Russia

Tel: +7 (495) 956 85 81

Fax: +7 (495) 956-85-84

Schedule: 9:00 - 18:00 Local time: GMT + 4

E-mail: globalsales@polymedia.ru

www.polymedia.ru <<http://www.polymedia.ru/>>

www.polywall.net <<http://www.polywall.net/>>