

Dualz

Software bv



Multiviewer Screens

User manual

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INTRODUCTION

This document describes how to setup MOSAIC screens via the MOSAIC screen manager. This configuration is done only once, and doesn't need any changes, if the number of screens or their location does not change.

INSTALLATION

INSTALLATION PROCEDURE

Install MOSAIC multiviewer: Setup.exe

If a previous installation was done on your system, please uninstall that instance first.

LICENSING AND TRIAL PERIOD

DONGLE LICENSE

If you have received a license on a dongle, just insert the dongle in a USB port, and the MOSAIC multiviewer is licensed,

OTHER LICENSING OPTIONS

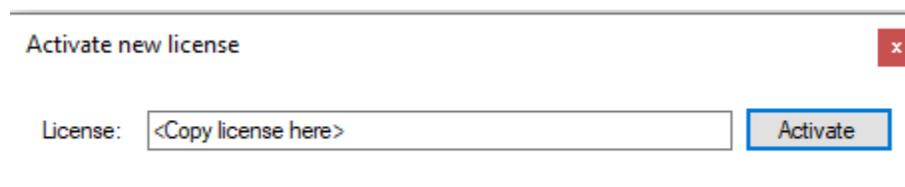
By default a trial period (7 days) can be activated. After that period (or directly if you have a license), you can activate the full licensed version.



When a screen is started, select the icon in the Windows task bar :

In the Mosaic screen form, select Help-License-Activate new license.

If you have received a license, you can activate that by copy/paste that in this field:



The screenshot shows a dialog box titled "Activate new license" with a close button (X) in the top right corner. Inside the dialog, there is a text input field labeled "License:" containing the placeholder text "<Copy license here>". To the right of the input field is an "Activate" button.

MONTHLY SUBSCRIPTIONS

You can purchase monthly/yearly subscriptions. The license shall be activated, based on your paid subscriptions.

NOTE: You'll need remote access to our license server, directly or through a proxy server.

PERPETUAL LICENSE

You can purchase a perpetual license, either via a dongle. Or via our license server.

NOTE: In case of license server, you'll need remote access to our license server, directly or through a proxy server.

CONFIGURATION

DEFAULT 1 SCREEN

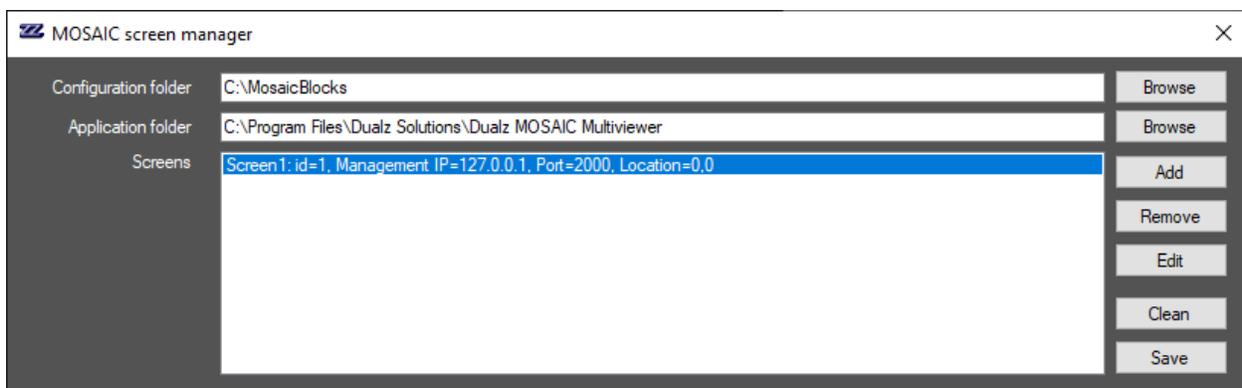
After installation, by default 1 screen is configured. If you need to configure a more complex setup with another screen location or multiple screens, you can start the screen manager, that is described below.

SCREEN MANAGER

The screen manager can be started via:

Program menu -> Dualz Software BV -> MOSAIC screen manager

The following form is shown:

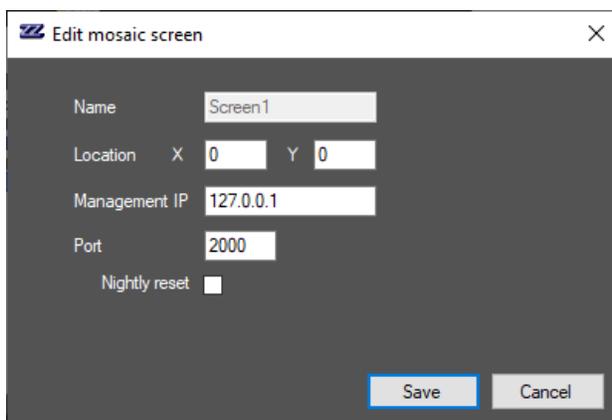


It is important to enter the correct Configuration folder (that was entered during startup).

The Application folder is the installation folder of the Multiviewer (player).

Screens can be added, removed or edited.

Per screen, the following settings can be given:



Name: Name of the screen

Location: Location on your windows desktop, can be on extended monitor, for example (1920,0).

Management IP: The management network IP address, the editor must be in the same LAN. If the editor runs locally (on the same system), localhost 127.0.0.1 can be used here. Recommended to use "0.0.0.0" (any card).

Port: Network port, used for communication with the editor, must be unique per system.

Nightly reset: Specify whether, and if enabled at what time a complete screen reset must be done.

SHORTCUTS

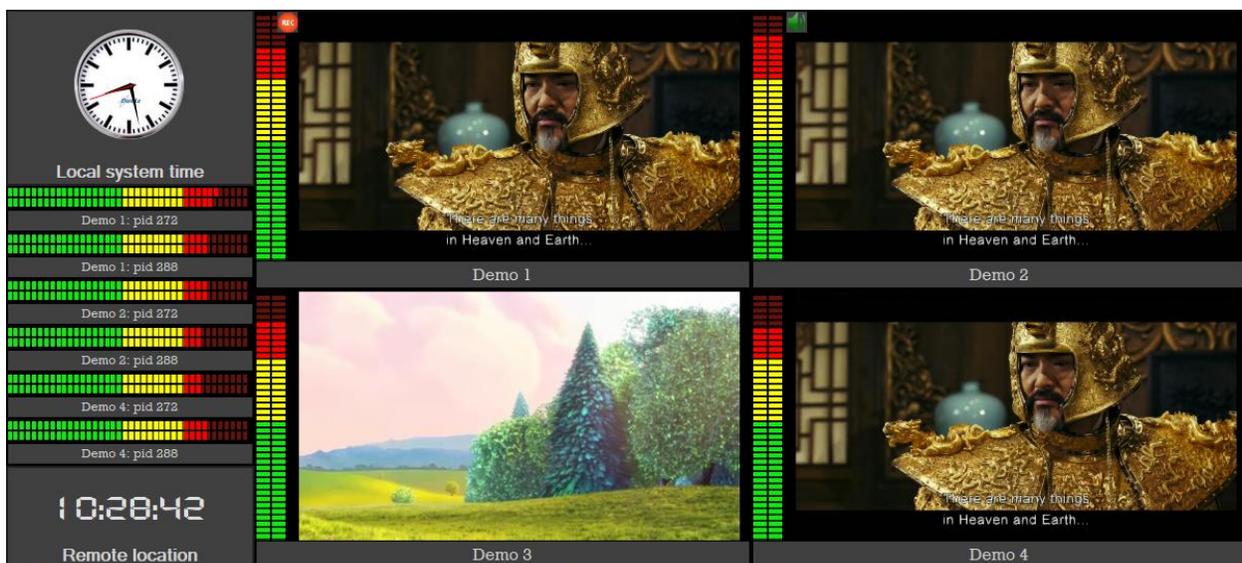
During saving the screen list, the screen manager shall request for saving shortcuts to the desktop. With these shortcuts the screens can easily be started, or added to the startup folder, in order to start automatically after system startup.

The configuration folder is the location where the mosaic configuration and temporary files are stored. We recommend to not change the default configuration folder, unless there is a reason for it.

MULTIVIEWER SCREEN

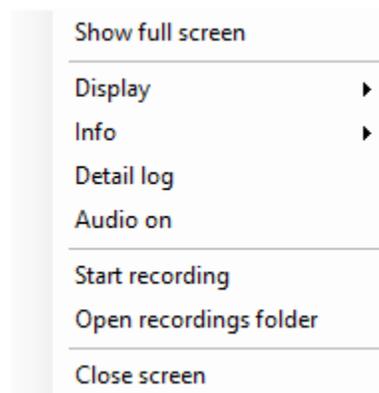
In order to run a multiviewer screen, select the corresponding MOSAIC multiviewer shortcut on the desktop.

If needed, push the new configuration from the editor to the multiviewer via "Update all multiviewers".



POPUP MENU

If you right click on a tile, the popup menu appears.



The following functions are available:

- Display rebuild: Resets this tile, in case a problem occurred.
- Show full screen: Shows this channel in full screen and audio over speaker (same as double click on tile)
- Info:
 - Channel properties: information on the channel settings
 - Show alarms: Shows current alarms
 - Show statistics: Shows channels statistics, like number of frames and audio samples
- Detail log: For analysis purpose, create more logs temporarily..
- Audio on/off: Enables or disables audio over speaker. In case audio is on, the 'audio' indication is shown.
- Start/Stop recording: Starts or stops recording of this channel (license needed). The recording creates a .ts file of max 50 MB, the recording stops automatically when 50MB has been reached. During recording the 'recording' indication is shown.
- Open recording folder: Opens recording folder in file explorer
- Close screen: Closes this screen.

OUTPUT STREAMING

The multiviewer signal can be encoded and send over UDP (TSoIP). The destination can be a streaming engine (Wowza, NGINX, AWS live streaming, ...).

This way the multiviewer can be presented as a high resolution or adaptive web stream.

For example, install a local NGINX docker image in Windows, using Docker Desktop for Windows. The system accepts the incoming UDP streams form the screens and presents them, using HLS for example. View the streams from anywhere on any device (PC, tablet, phone).

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