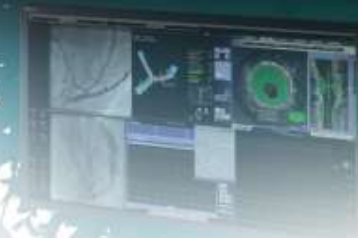


Large Monitor Manager Setup

LMM0802 & LMM56800

Making Each Life Visual



LMM system - Configurations

Quick Start Guide

- **LMM0802 Set up and configuration**
 - Configuration
 - General Setup
 - Connection example
 - Configuring the input signals
 - Creating Layouts
 - Network Settings
 - System control (user interface)



Configuration

- For Configuration, following two methods are available:

1. **Web Browser via a network**

- Equipment required:
 - Monitor (mandatory)
 - LMM0802 (mandatory)
 - Standard PC with a web browser installed
 - Monitor with minimum 1280 x 1024 screen resolution
 - Network switch if more than one device is connected to the LMM (optional)

2. **Standalone LMM via keyboard and mouse**

- Equipment required:
 - Monitor (mandatory)
 - LMM0802 (mandatory)
 - USB Keyboard and Mouse (mandatory)

General Setup – Web Browser

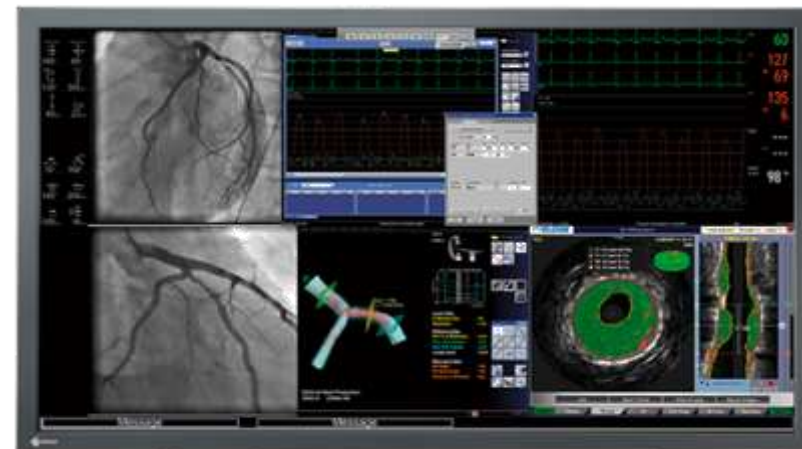


PC for configuration



LMM0802



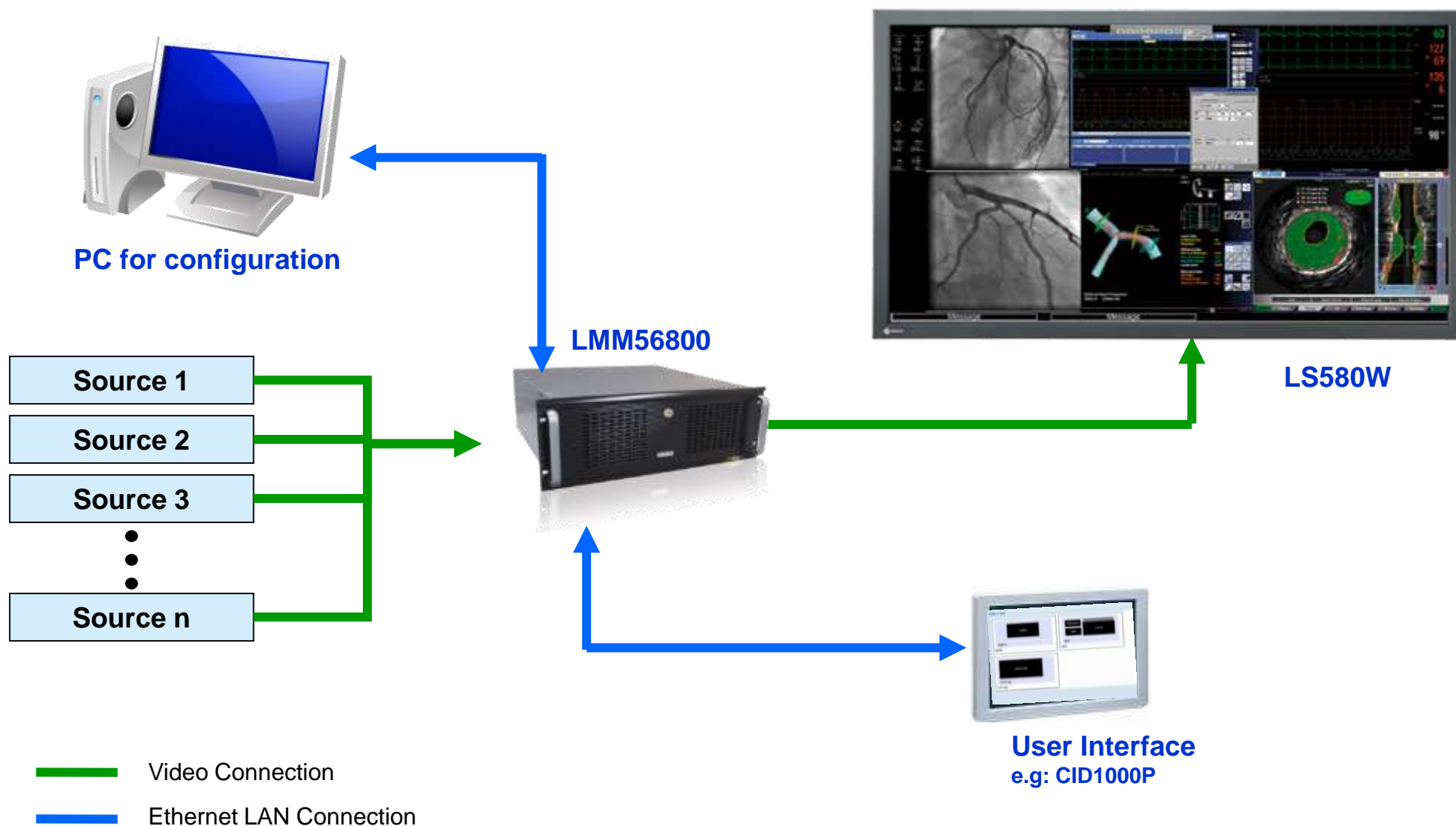
IP address:
169.254.213.144



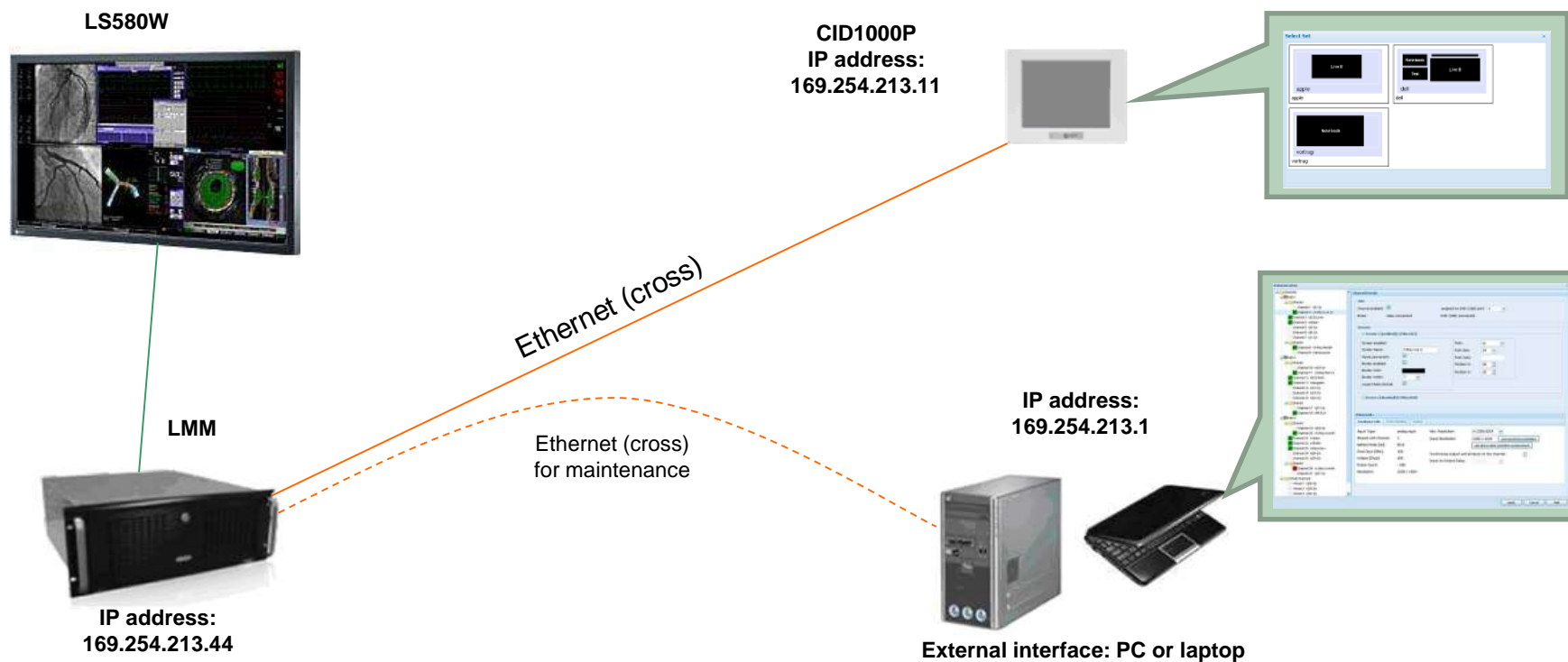
LS580W, LX550W

-  Video Connection
-  Ethernet LAN Connection

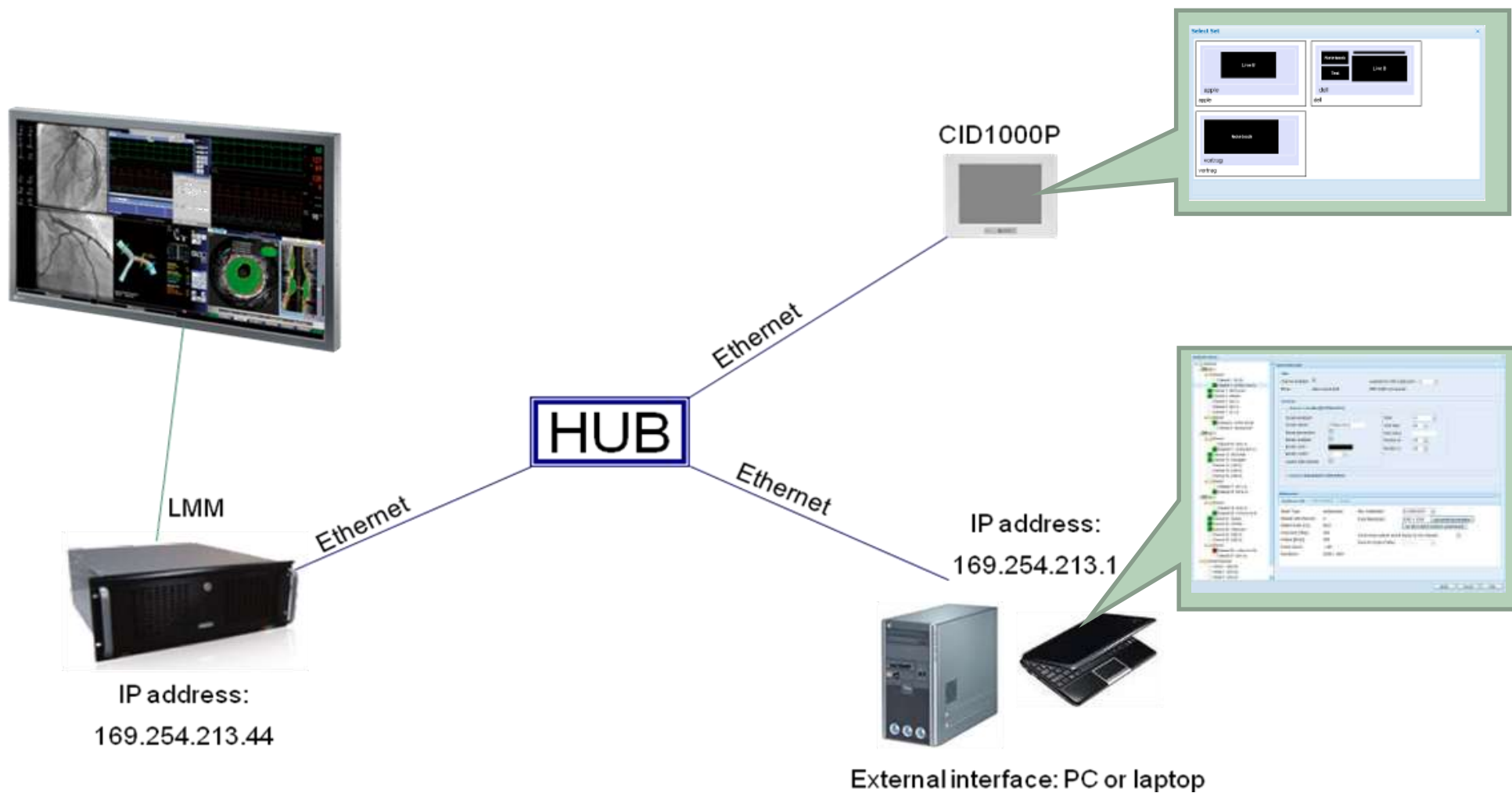
General Setup – 2



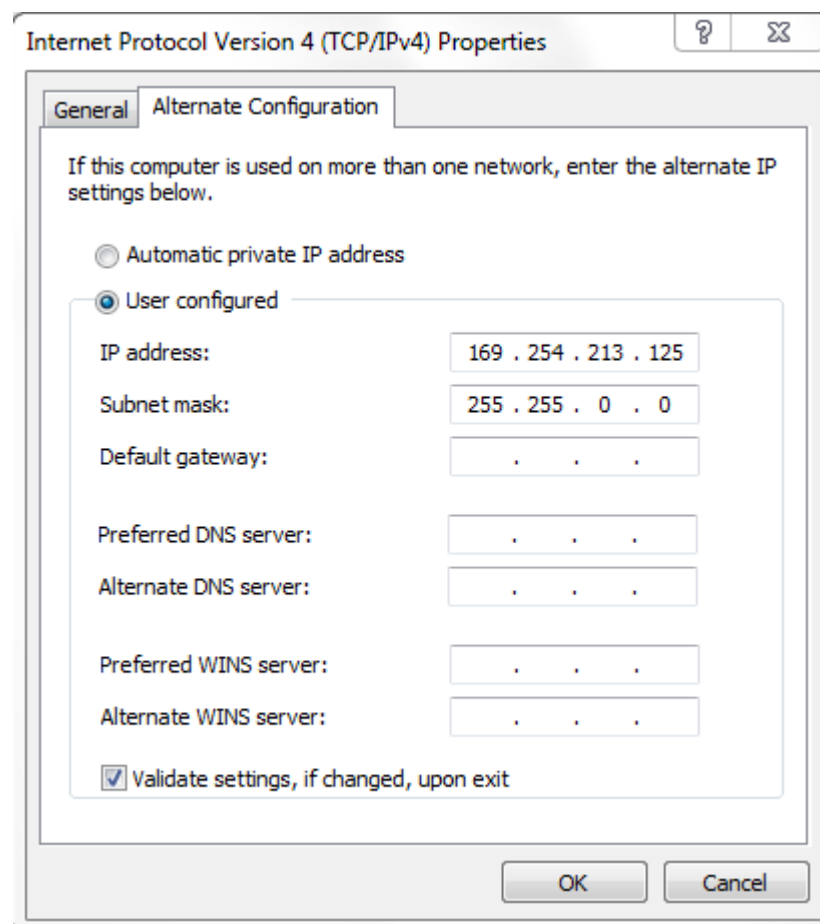
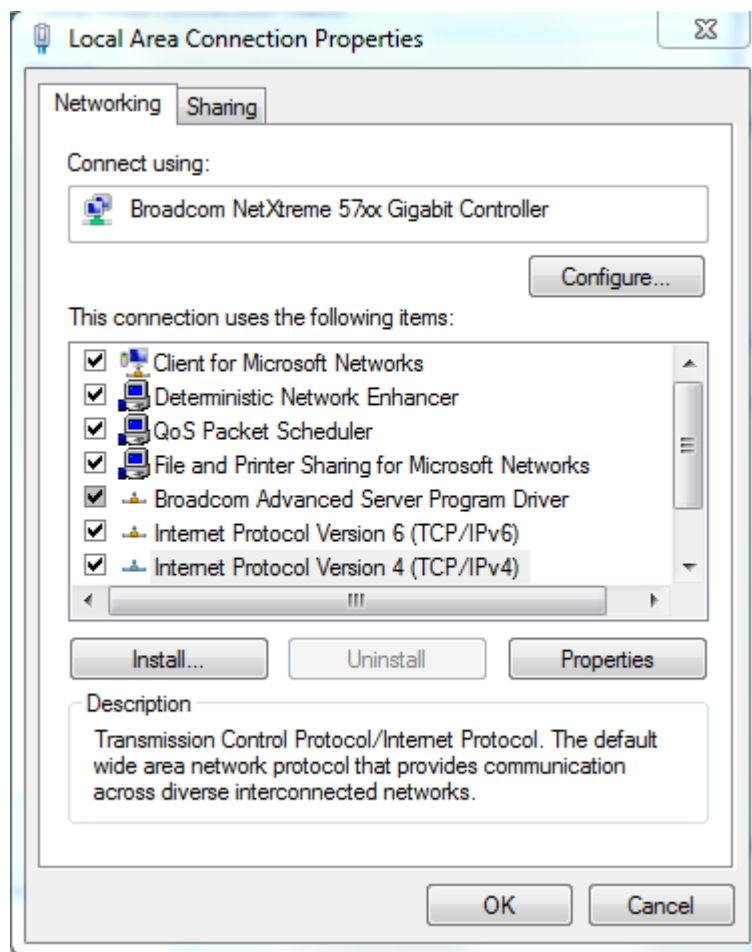
Connection Example1



Connection Example2

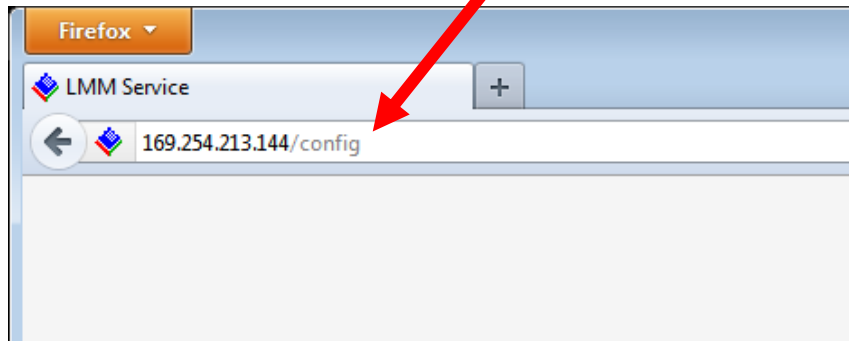


Computer IP Settings



Web Browser Control of LMM

- Entering the configuration menu
 - Enter the IP Address of the LMM in the address bar of a web browser



Note

Recommended browsers (IE can cause unusual difficult to understand problems), instead use:

Chrome

or

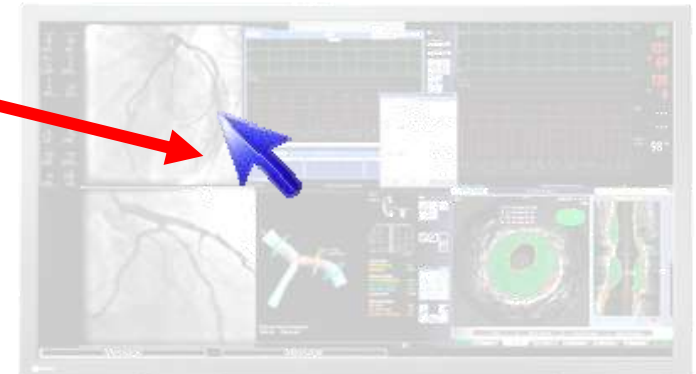
Mozilla Firefox Version 10 or higher

General Setup – Standalone


1. Connect a keyboard and mouse to connection panels X1 ... X6.

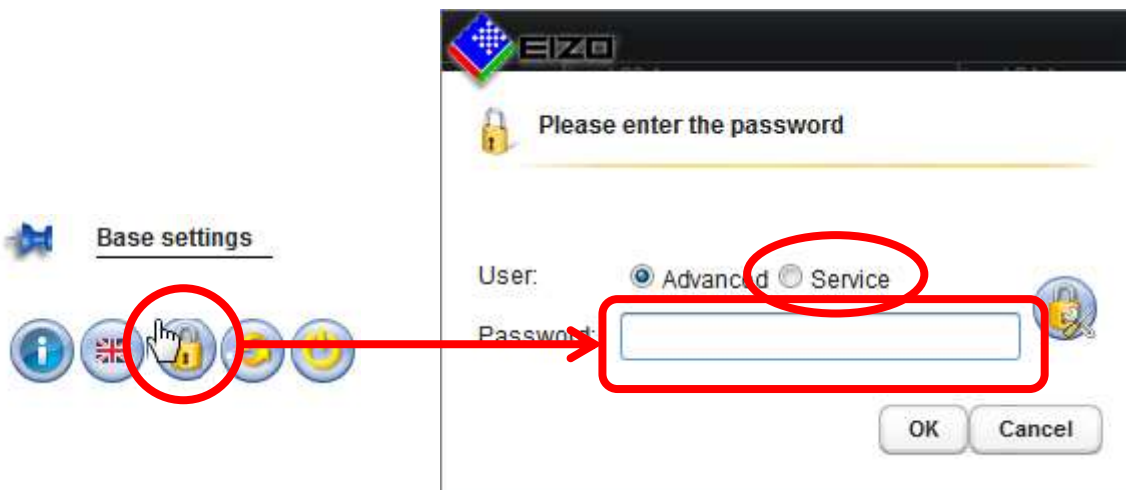


2. Confirm you have blue mouse cursor on monitor(s) connected to the LMM output.



Log on as "Administrator"

1. Open Base settings sidebar.
2. Click “”
3. Select “Service”
4. Input “super” as Admin password.

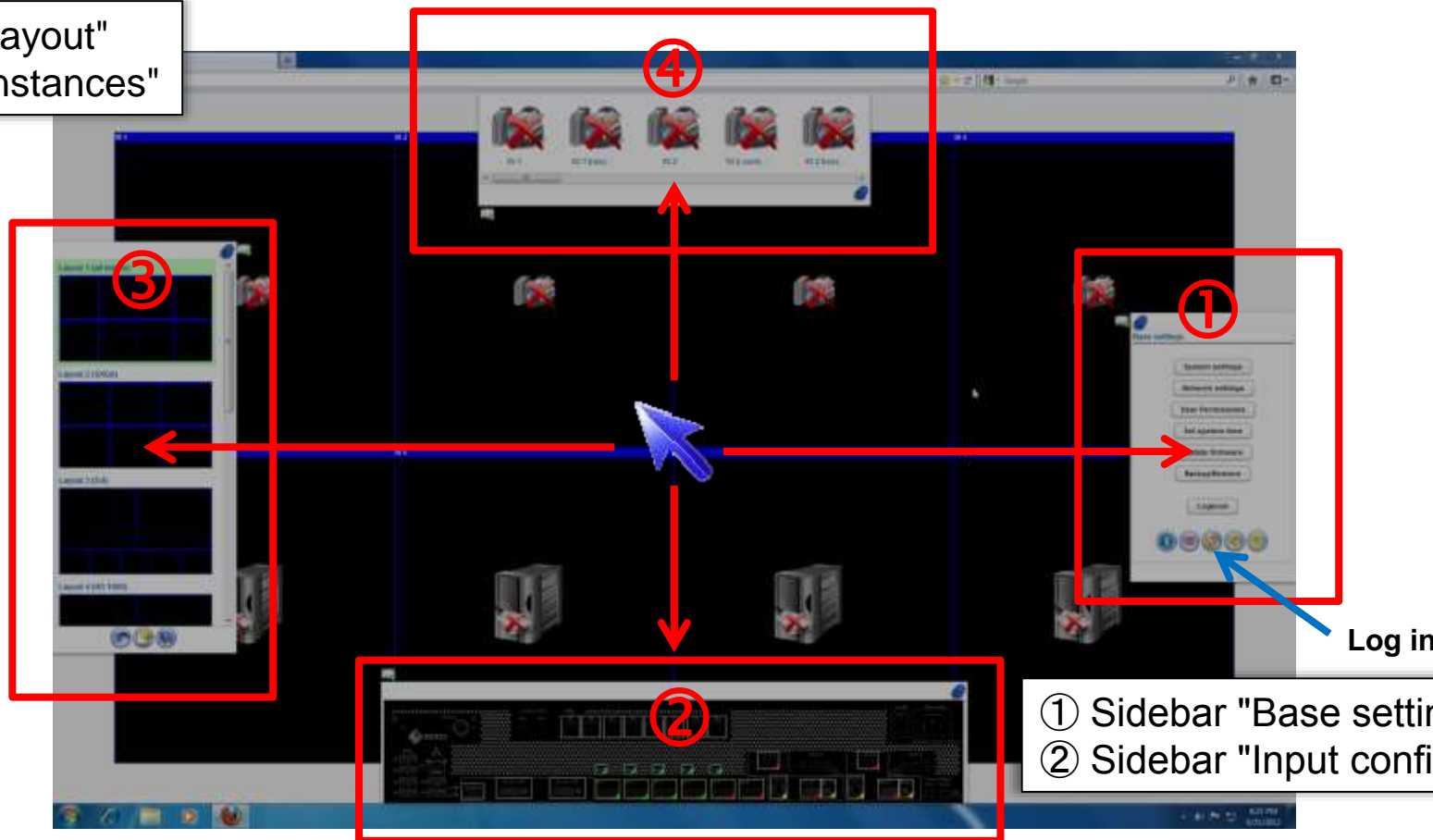


Base Settings menu activated.



User Interface Overview

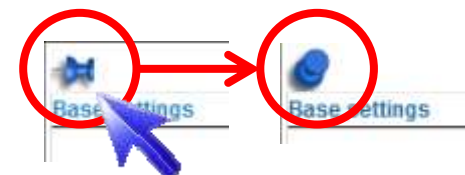
- ③ Sidebar "Layout"
- ④ Sidebar "Instances"



- ① Sidebar "Base settings"
- ② Sidebar "Input configuration"

Basic Operation for sidebar

1. Sidebar pops up when mouse cursor approach to each sides.
2. Click "pin" icon to keep the sidebar opened.



Configuring the input signal

1. Connect the video signals from the sources to the LMM



2. Open the "Input configuration" Sidebar of the LMM.



3. Confirm if the port shows green sign.
Signal info can be checked by moving cursor over the port.



Symbol legend:



Channel is not active



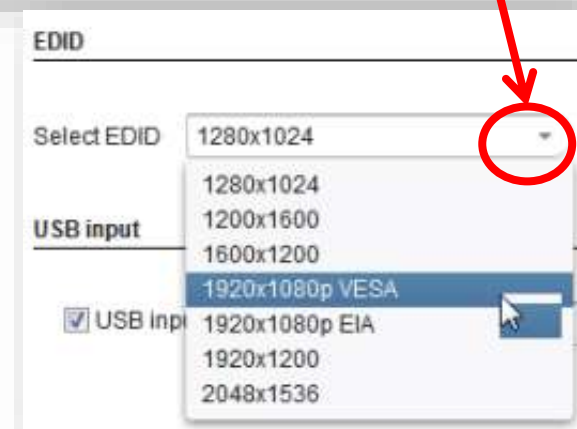
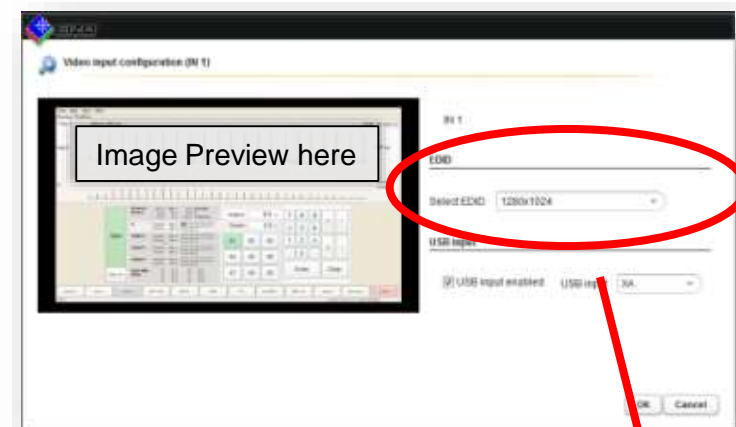
Channel is active, but the signal information can not be read.



Channel is active and the signal from the source is recognized

Configuring the digital input signal

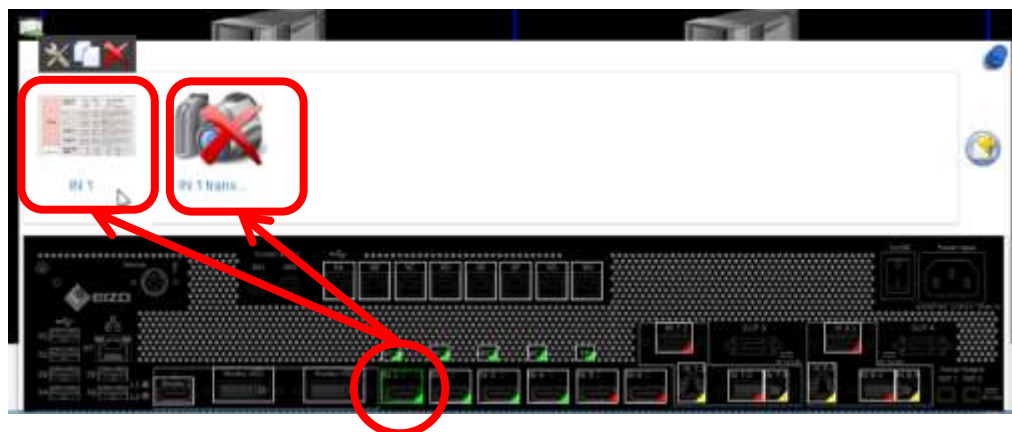
4. Double-click left on the port where input signal is connected. Video configuration window appears on the center of the screen.
5. Define EDID (Resolution) of this input port by selecting from the pull-down menu.
6. Click OK to close the Video configuration window.



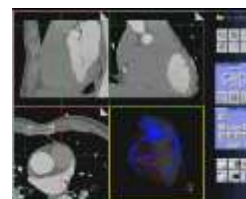
Creating instances

Understanding the concept of “instance” on LMM0802.

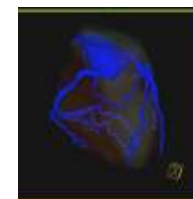
- ✓ Defined presentation of a video signal of a video source within a window of a layout. For each video input of the LMM0802, multiple instances can be displayed with different presentations, e.g. 1:1, with a border, or as a cropping area.
- ✓ One instance has already been created by default for each video input.
- ✓ Each instance can be assigned to one or more windows and layouts.



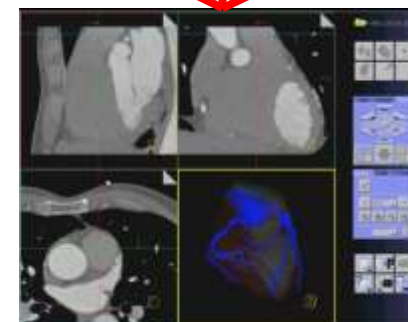
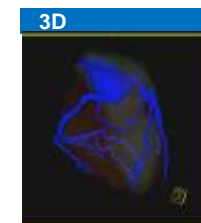
Instance 1
1:1 Full Screen



Instance 2
Cropped



Instance 3
Cropped w/border/title



Original Image source

Creating instance



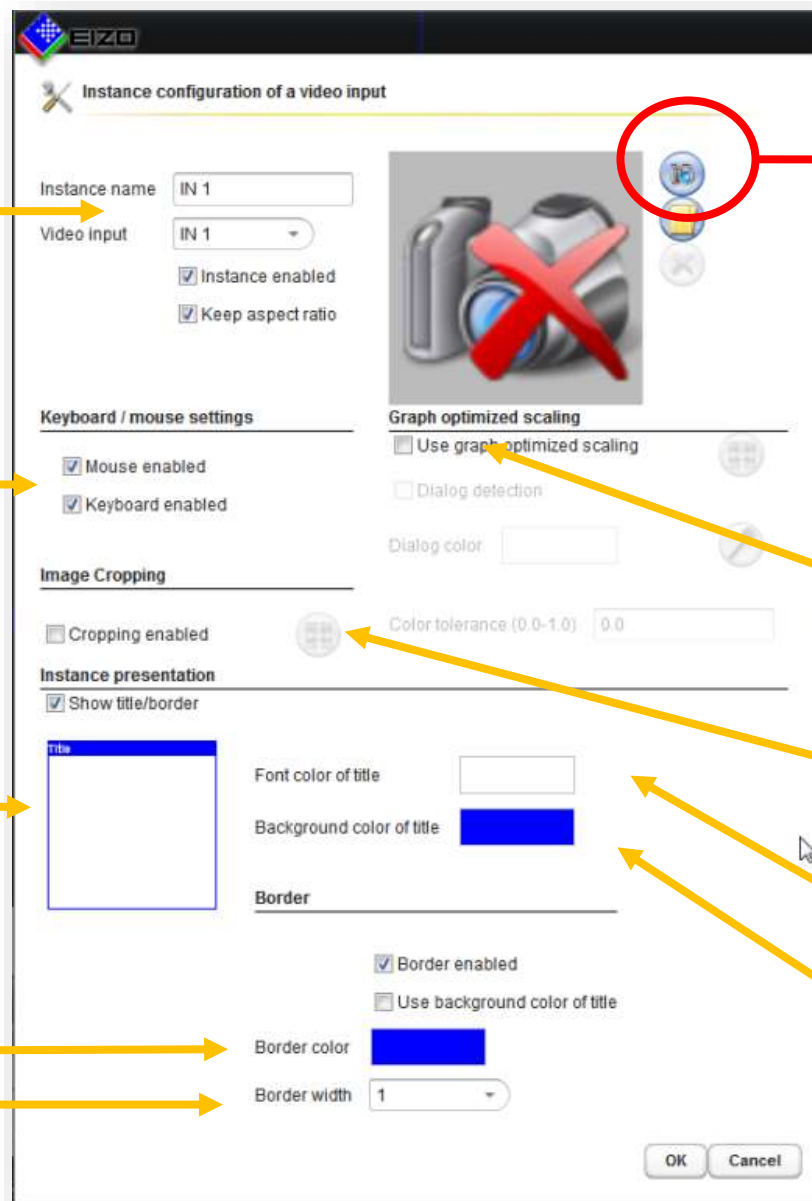
Name of the source signal

Activate KVM function, see the slide (KVM settings).

Check these boxes to show the signal name on the screen and to display a border around the signal window.

Select the color for the border.

Select the thickness of the border.




Create/delete miniature thumbnail for each instance.

Activate this option when displaying vital functions or ECG images in a layout smaller than 1:1.


Check this to make advanced settings like zooming or cropping.

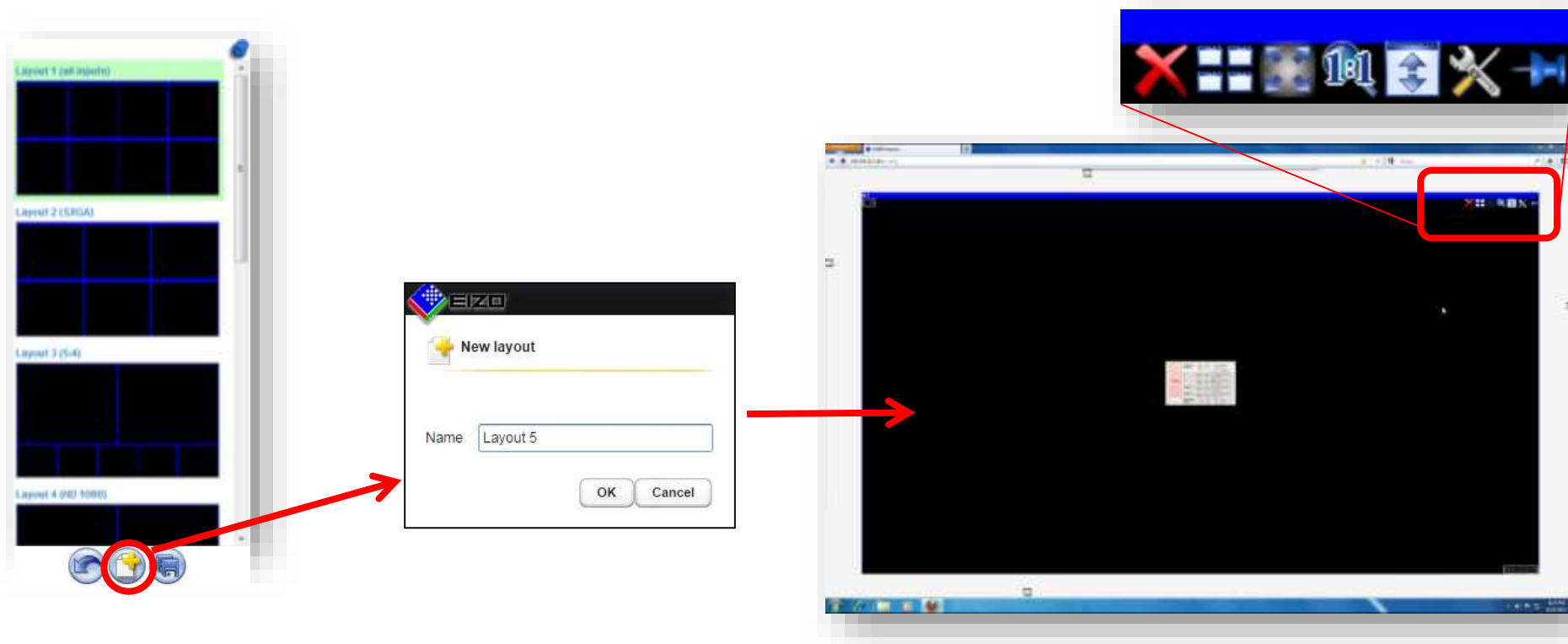
Select the font color for the name.

Select the background color of the title.

Creating layouts

New Layout

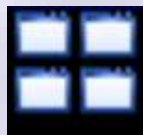
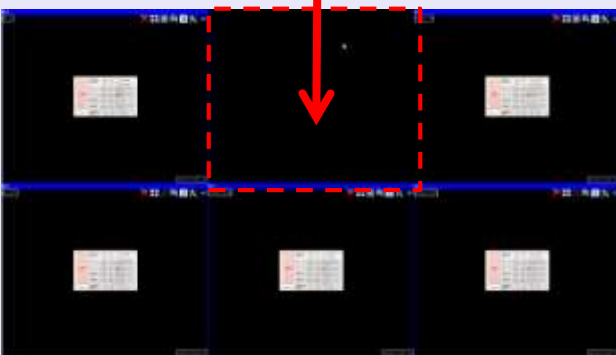
1. Open “Sidebar layout”, click “” to create new layout.
2. Specify the name of the new layout
3. One single window will be open as a new layout.
4. Tool icons will be shown on the top right. (see next page for details)



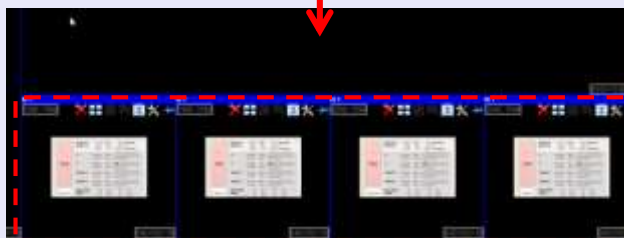
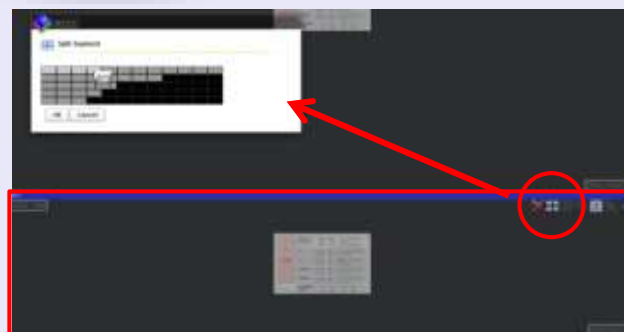
Creating layouts



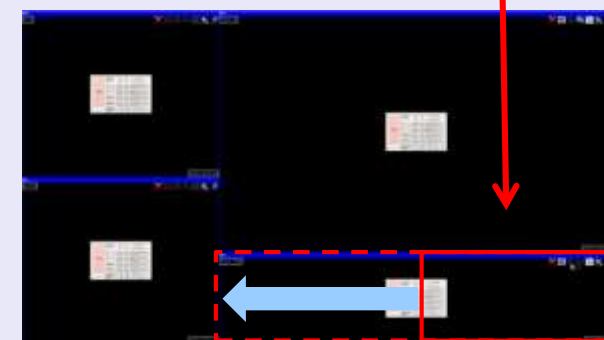
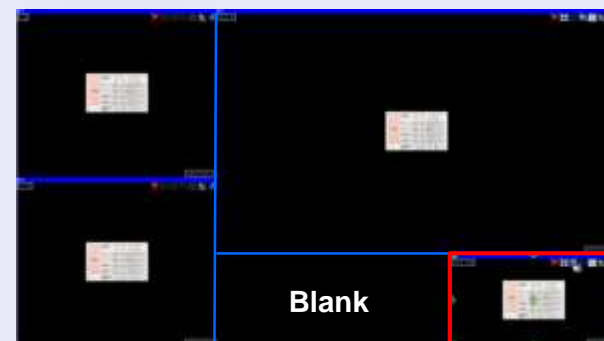
Delete



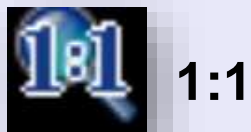
Split



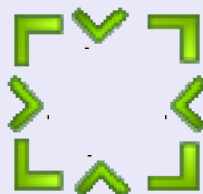
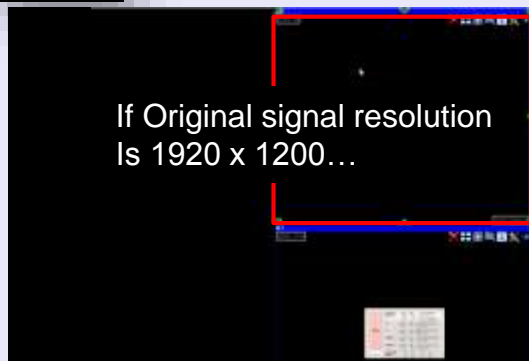
Expand



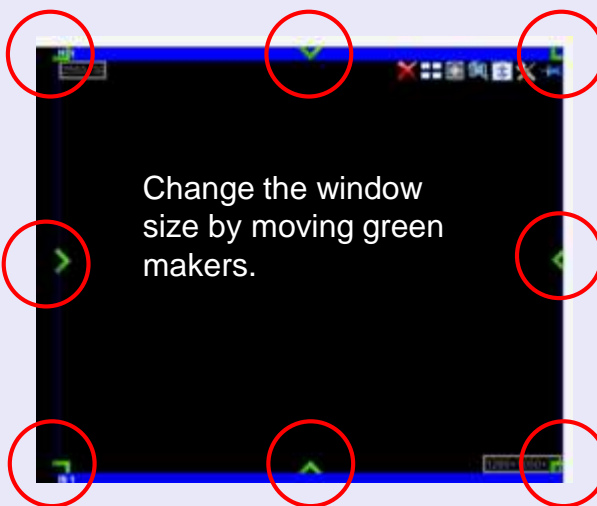
Creating layouts



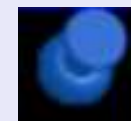
1:1



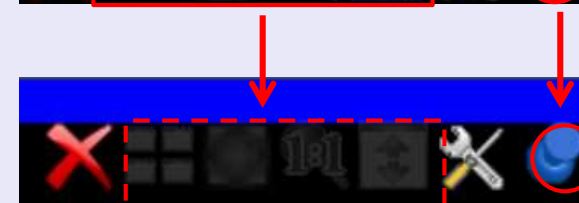
Makers



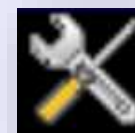
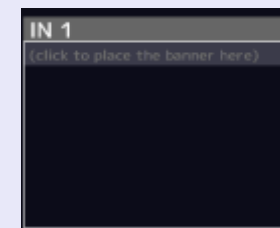
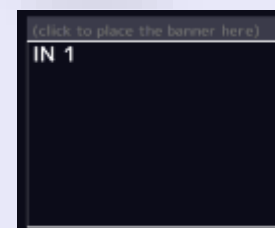
Fix



Fixed



Banner position



Go to Instance config.

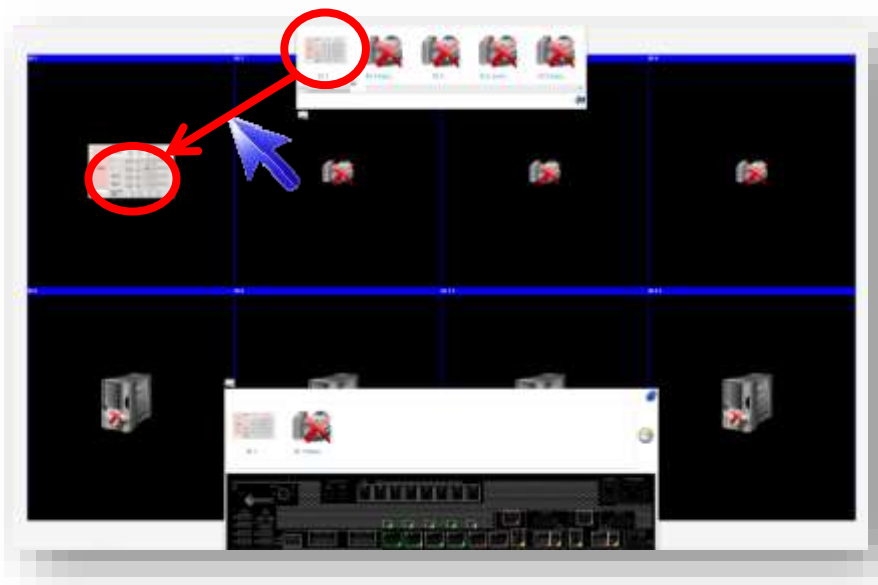
Assigning instances to layout

"Instances" Sidebar

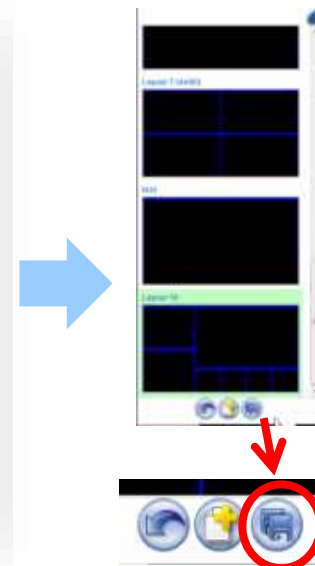


Instances can be assigned to the windows of the selected layouts. (Drag and drop operation)

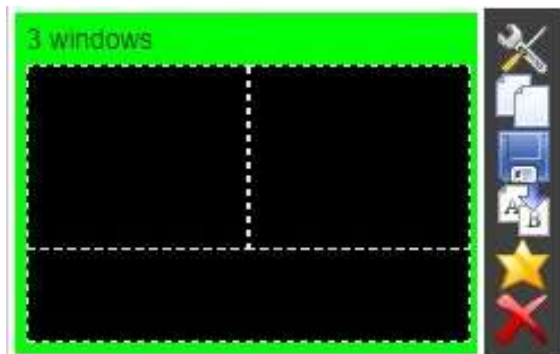
All the instances created are listed on the "Instances" sidebar.










Save Layouts



Other layout controls

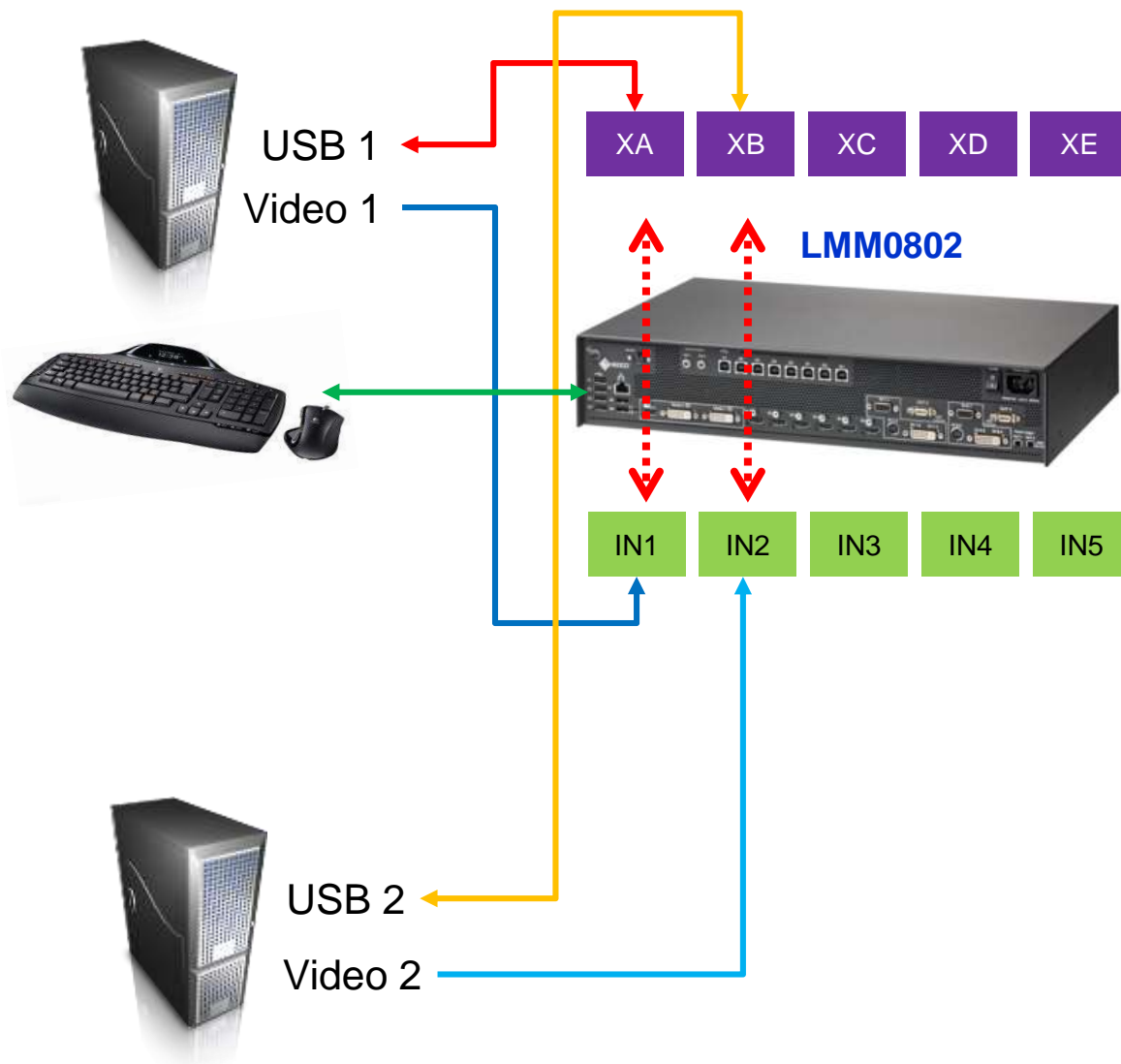


Icon	Description
	Click the button to edit the layout.
	You can save layout changes. To do this, click on the button.
	You can define a layout as the default layout. To do this, click on the button.
	You can duplicate the layout. To do this, click on the button. A copy of the layout will be displayed.
	You can assign a user-defined name to the layout. To do this, click on the button.
	You can delete the layout. To do this, click on the button.
	If the icon is shown in gray, the layout cannot be deleted. In this case, the selected layout is defined as the default. To delete it, a different layout must be defined as the default.

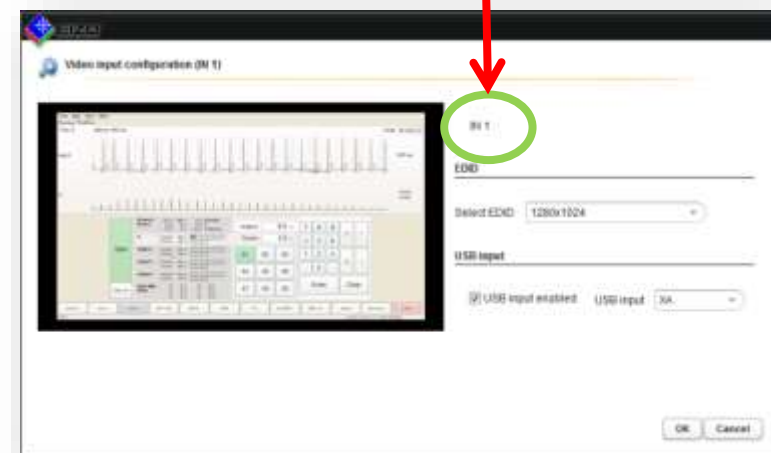
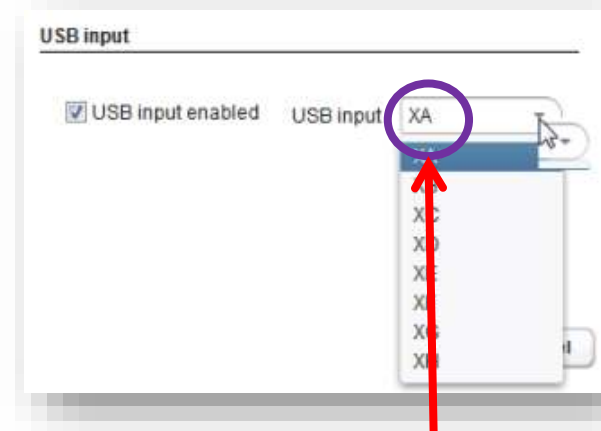
Note: The order of layouts can be changed by doing the following:

- 1) Duplicate layouts in the order you wish them presented.
- 2) Delete the copies of layouts that are not in the desired order

KVM Settings



Video Input/USB Configurations



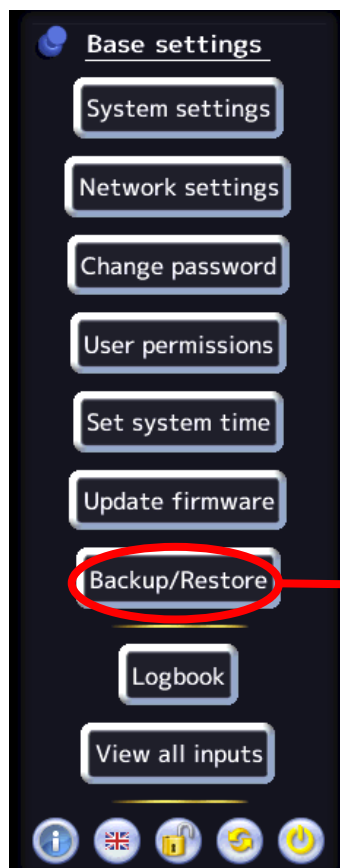
Network settings

1. Open “base settings” sidebar.
2. Click “Network Settings”.
3. Open the Menu Network settings



Backup/Restore

In a backup/restore, you can back up and restore user data and restore the factory defaults. To open the "Backup/Restore" dialog box, click the "Backup/Restore" button in the "Base settings" (complete) sidebar.

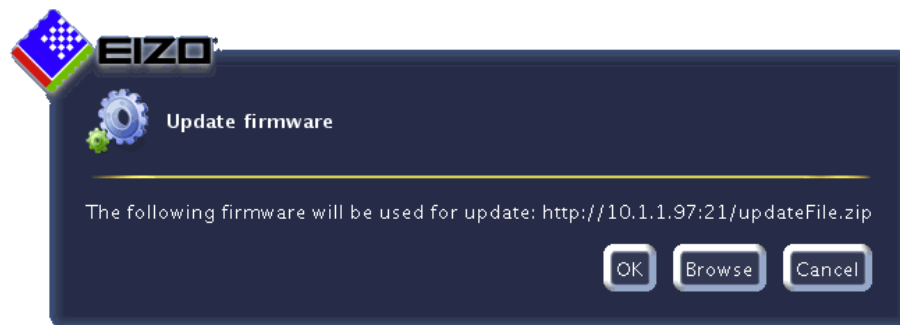


Function	Description
Backup User Data	The user-defined settings are backed up. Click the "Backup User Data" button. A dialog box opens in which you can specify the storage location. Use a USB stick as the storage location.
Restore User Data	The previously saved settings will be restored.
Restore Factory Defaults	Attention If you reset the Large Monitor Manager to the factory defaults, all the user-defined settings are lost. To restore the factory defaults, click the "Restore Factory Defaults" button. A dialog box opens.

Update Firmware

The new firmware file can be imported locally using a USB memory stick.
The file name always starts with "UpdateFile" and has the file extension "ZIP".

1. Click the "Update firmware" button. The "Update firmware" dialog box appears.



2. Click "Browse".
3. Select the update file, which was stored before on a USB memory stick

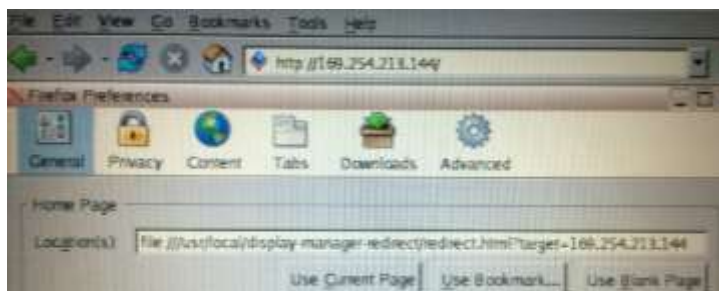
System Control – CID1201P-EU

The CID1201P-EU is shipped with default start page of the browser for LMM56800.

Please follow these steps to change default start page of the browser for LMM0802, LMM0804.

Procedure located in “7.3 Change home page” section of CID1000P Instructions for Use, 10/2014 manual.

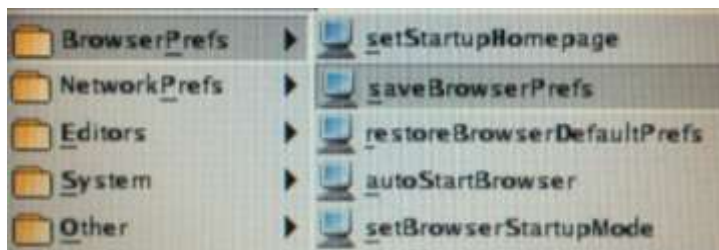
1. Connect a USB-keyboard and USB-mouse to the CID1201P-EU and press F11 to access Firefox web browser.
2. Select Edit-> Preferences from pull-down menu.
3. Enter text string:
 - LMM56800: <file:///usr/local/display-manager-redirect/redirect.html?target=169.213.254.44>
 - LMM56800 View Management <file:///usr/local/display-manager-redirect/redirect.html?target=169.213.254.44&context=/vm>
 - LMM0802/0804: Standard Interface <file:///usr/local/display-manager-redirect/redirect.html?target=169.213.254.144>
 - LMM0802/0804 View Management <file:///usr/local/display-manager-redirect/redirect.html?target=169.213.254.144&context=/vm>



LMM56800 default IP address = 169.254.213.44

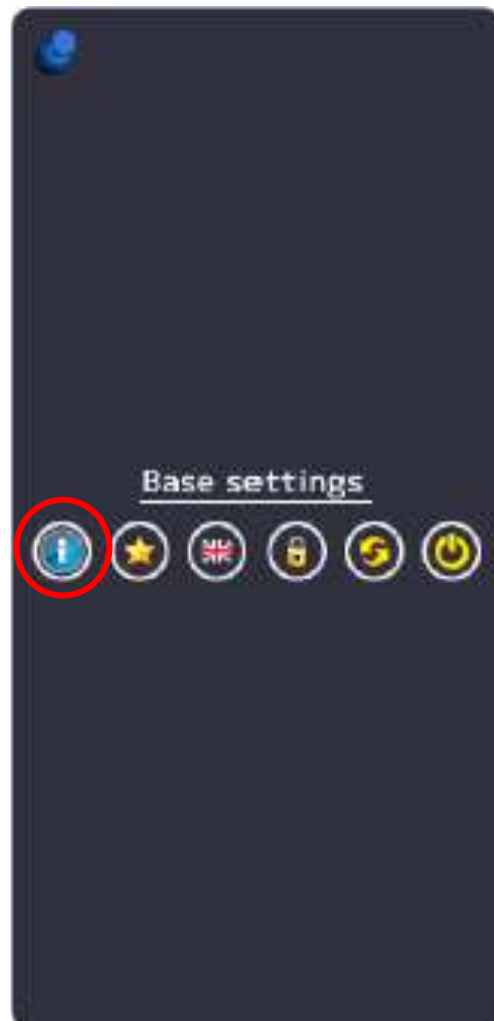
LMM0802, LMM0804 default IP address = 169.254.213.144

4. Press <CNTRL> <ESC> and select Browser_Prefs->_saveBrowserPrefs to save browser location settings.



5. Cycle CID1000P power for new location to take effect.

LMM System Information





System information

Device information		Device type	---
Device name	LMM0802	Serial number	---
Type	OWN	Monitor @ Out 15	
Hardware version	04	Device type	---
Serial number	HXF7001210	Serial number	---
MLFB	6GF6030-1A800	Monitor @ Out 16	
DMI BIOS version	UNP1R908	Device type	---
DMI board version	5.0	Serial number	---
DMI board serial number	UNP18BD1L0021	Network	
PLD version	PLD9 - r0.3, build4, spec 1.0	MAC address	00-e0-4b-4c-7d-05
System version	0.3.0	IP address	169.254.213.144/24
Application revision	3.0.0-1 (40529-b4)	USB board	
Monitor @ Monitor 1		XA	0.85
Device type	EV3237-2K2K [ENC/2606]	XB	0.85
Serial number	28934065	XC	0.85
Monitor @ Monitor 2		XD	0.85
Device type	EV3237-2K2K [ENC/2598]	XE	0.85
Serial number	28934065	XF	0.85
Monitor @ Monitor 3		XG	0.85
Device type	---	XH	0.85
Serial number	---	FPGA	
Monitor @ Out 7		FPGA	3.11a
Device type	---	Common interface	
Serial number	---	Protocol version	A05
Monitor @ Out 8			

Legal notes
OK

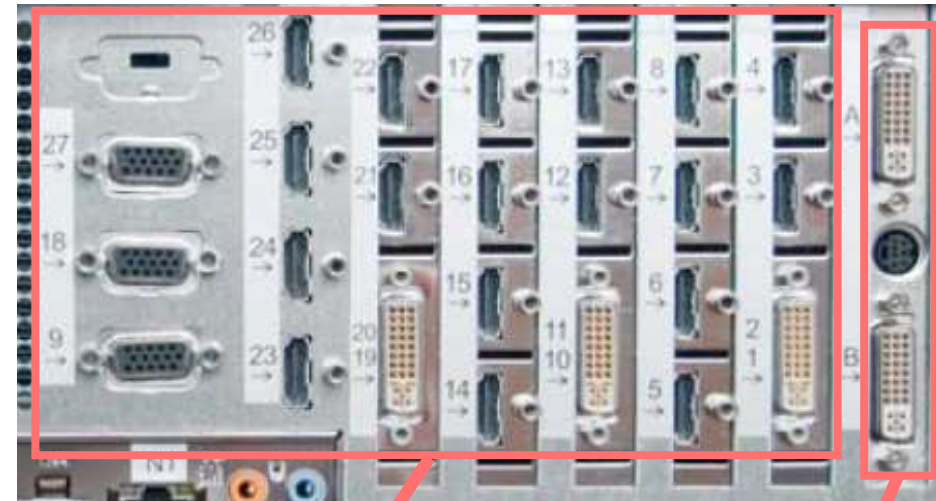


LMM56800

Quick Start Guide

Configuring the input signal – 1

1. Connect the video signals from the sources to the LMM
2. Note the input numbers on the back of the LMM, the video sources have been connected to

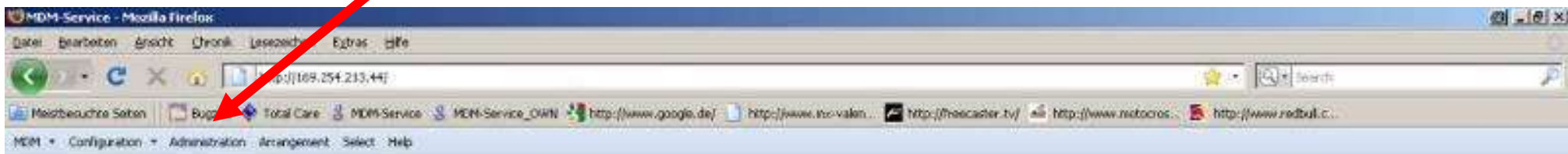


Input from the sources

Note: Receiver of TDL (DVI Transmission Link) require 5 V power supply

Output to the Monitor

3. Enter the configuration Menu of the LMM (see General Setup)
4. Click on the “Administration” button on the screen



Configuring the input signal – 2

1. Select the input to configure




2. Check to enable the channel if necessary and press „apply“

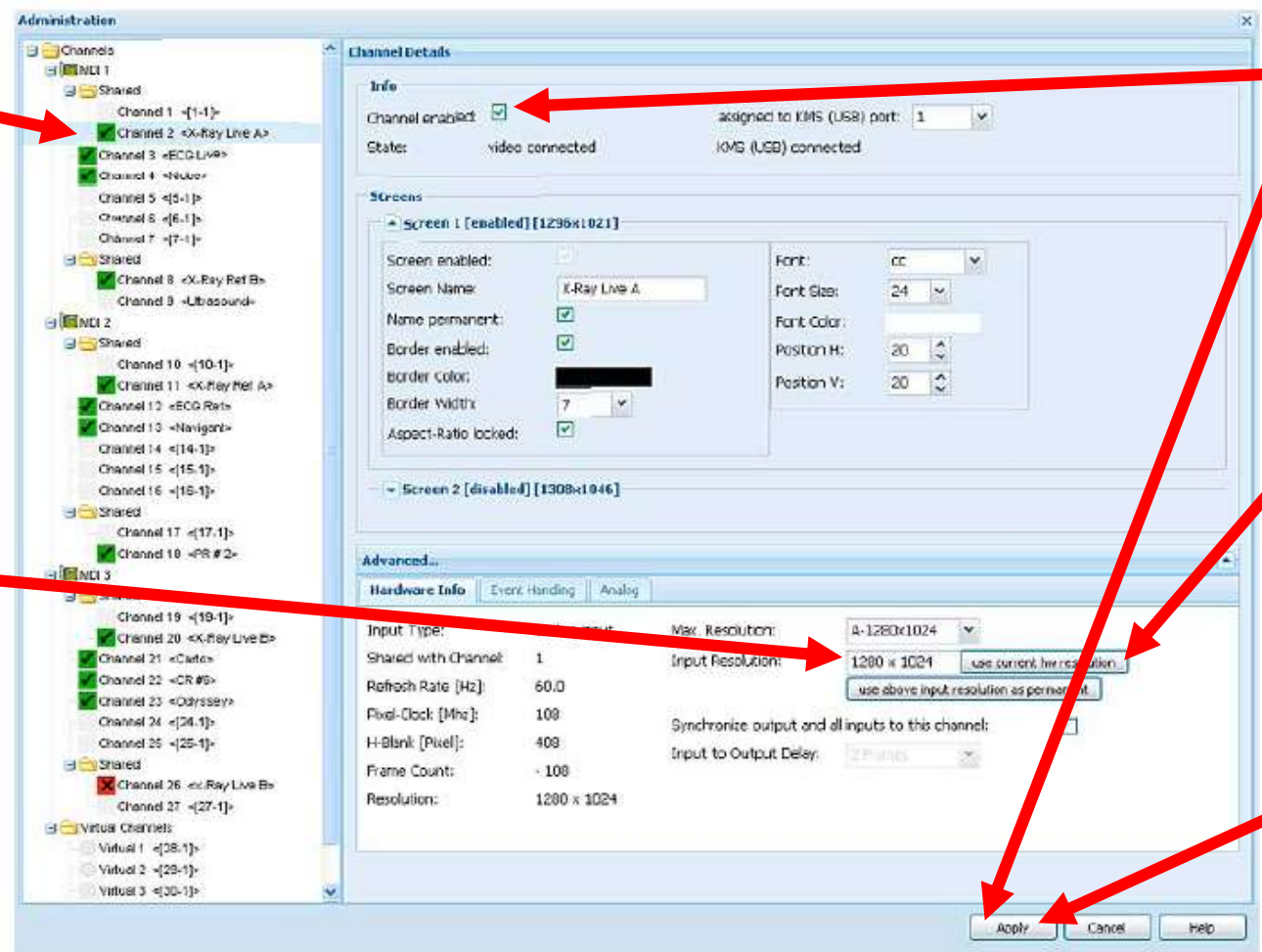
3. Press „Use current hw resolution“ to recognize the resolution from the source

4. Press „Apply“ to store the configuration

Note:
If 0x0 is displayed, please check if the source signal is present

Symbol legend:

-  Channel is not active, see step 2
-  Channel is active, but no signal from the source
-  Channel is active and the signal from the source is recognized



Configuring the input signal – 3

It is possible to display the a name on the screen for each source as well as a frame around the source window



Name of the source signal

Check these boxes to show the signal name on the screen and to display a border around the signal window

Select the font type for the name

Select the text size for the name

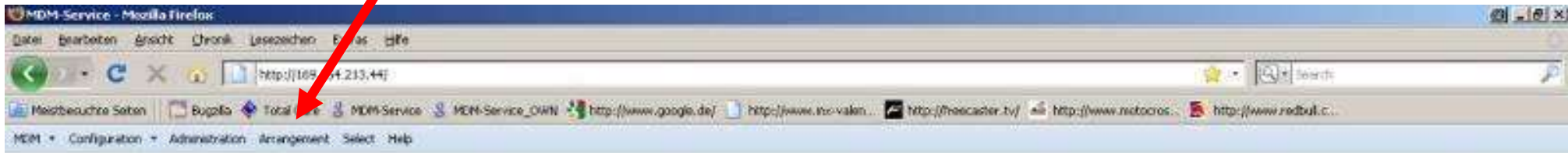
Select the text size for the name

Select the color for the border

Select the thickness of the border

Creating layouts – 1

1. Enter the configuration Menu of the LMM (see General Setup)
2. Click on the “Arrangement” button on the screen



Creating layouts – 2

Configured sources that can be displayed on the monitor

Schematic view of the monitor to place the source windows on

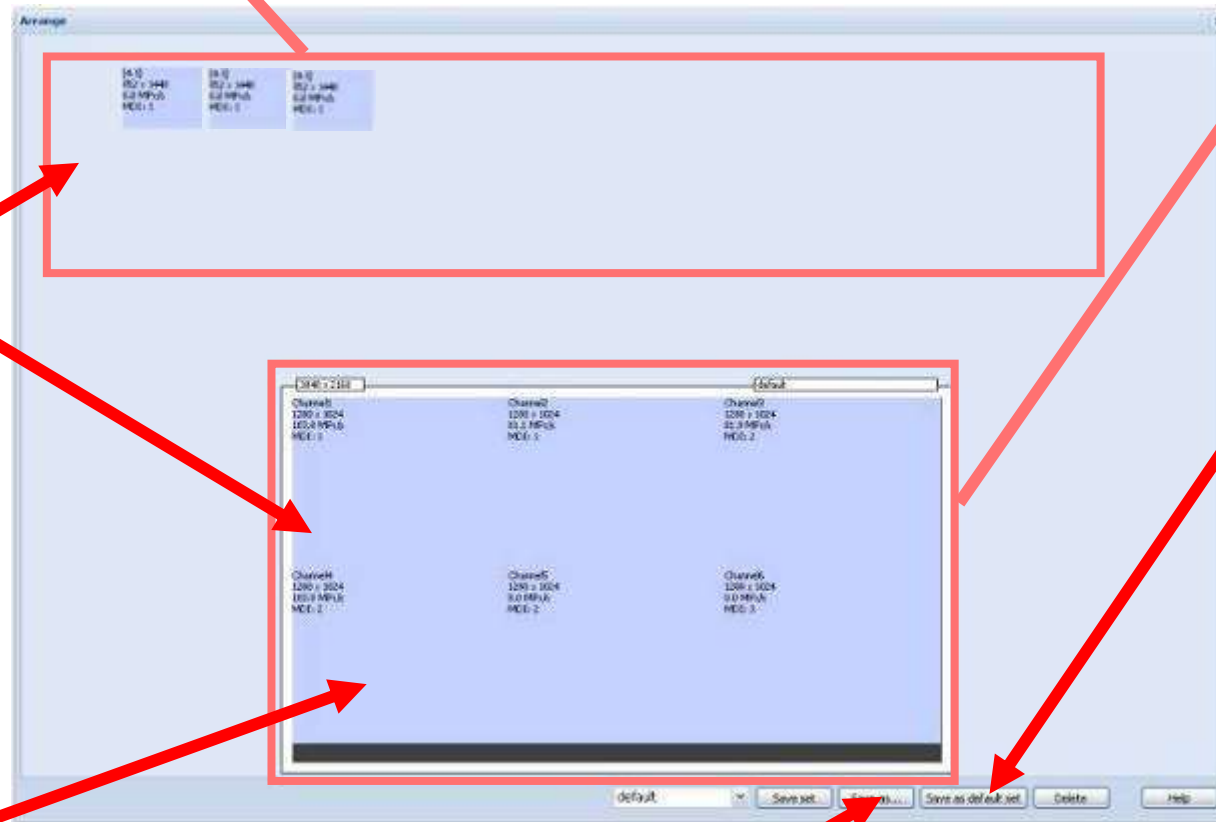
1. Select the sources to be shown on the monitor.
Drag it and drop in on the monitor schematic view to the desired position

2. Double click on the source window to make advanced settings like zooming or cropping.
(See next page)

3. Once the arrangement is finished press the „save As“ button to store the layout with a name.

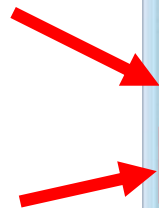
4. With the „Save as default set“ button you can define one of the created layouts as the default layout.
It will be shown automatically at every boot up of the system

Caution:
Do not use special characters in the Layout name



Creating layouts – 3

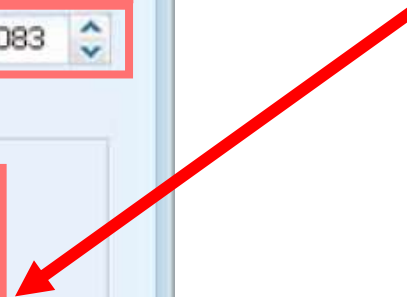
For precise positioning of the window enter the position of the upper left corner of the window. You can also use the arrows for pixel wise movement.



Enter the pixel value Horizontal & Vertical you want to zoom or shrink the source window to.

A screenshot of the 'X-Ray Live A - Channel 2 Screen 1' configuration window. The window has a title bar with a close button. Inside, there's a section for 'Input Channel:' with a green checkmark and the text 'connected'. Below that is an 'Event:' field. The 'Position' section has 'H:' and 'V:' labels with input boxes set to '0'. The 'Size' section has 'H:' and 'V:' labels with input boxes set to '1321' and '1083' respectively, and a checkbox labeled '(())' which is checked. Below these is a '(Scale: 1.06)' label. A large red rectangle highlights a 'Cropping' section containing four input boxes: the top one is '0', the left one is '32', the bottom one is '0', and the right one is empty. At the bottom of the window, it says 'Input Res: 1280 x 1024 : Output Res: 1321 x 1083'.

Enter the number of pixels you want to crop from the source window. From the top, the bottom, the left or the right border.



Warning

Scaling (zooming or shrinking) the source window may lead to image artifacts on the image.

Network settings

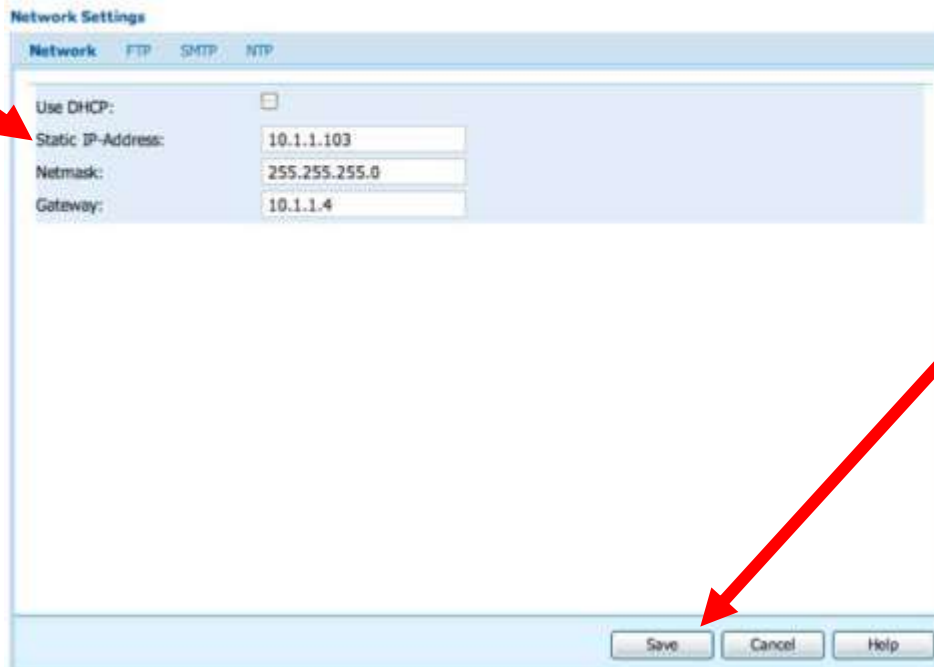
1. Enter the configuration Menu of the LMM (see General Setup)
2. Click on the “Configuration” drop down Menu (arrow) on the screen
3. Open the Menu Network settings



Network settings: General

It is possible to change the LMM network settings in order to integrate it into an existing LAN network

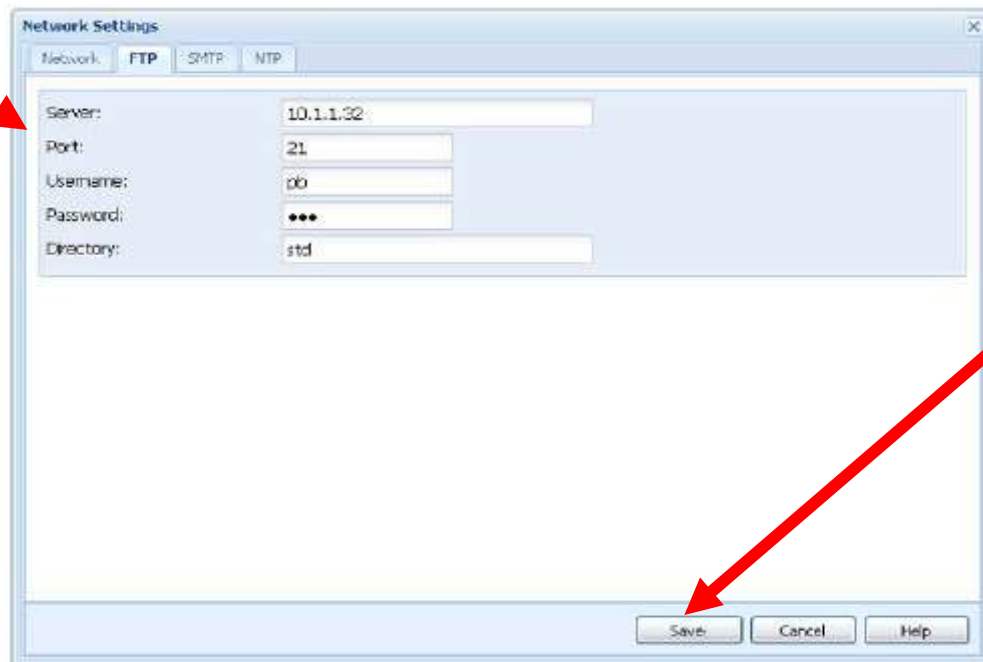
1. Click on the tab Network of the “Network Setting” Menu
2. Type in the desired IP Address for the LMM
3. Click The “save” Button
4. Reboot the LMM



Network settings: FTP server

It is possible to configure an FTP connection to the LMM in order to backup and restore the configuration or to do update the system.

1. Click on the tab Network of the “Network Setting” Menu
2. Type in the defined FTP settings (please refer to the LMM SW Upgrade guide for the FTP server setup procedure:
3. Click The “save” Button



System Control – CID1201P-EU

- The CID 1201P-EU will automatically find the LMM and show the layouts after boot up once connected to network
- Use CID1201P-EU to change layouts during LDS operation

View Management Interface



Standard Interface



System Control – Other

It is also possible to control the system through any other device hosting a web browser

1. Connect the device into the LMM Network.
2. Open the web browser software and type in following URL:
`http://LMMIPaddress`

For example: `http://169.254.213.144`



Making Each Life Visual