



# **Chromium on HMI device**

## **User Manual**

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# Contents

<b>1 Chromium</b> .....	<b>1</b>
Installation from USB .....	1
Installation from Remote .....	4
Settings .....	5
Enter System Settings via tap-tap procedure .	6



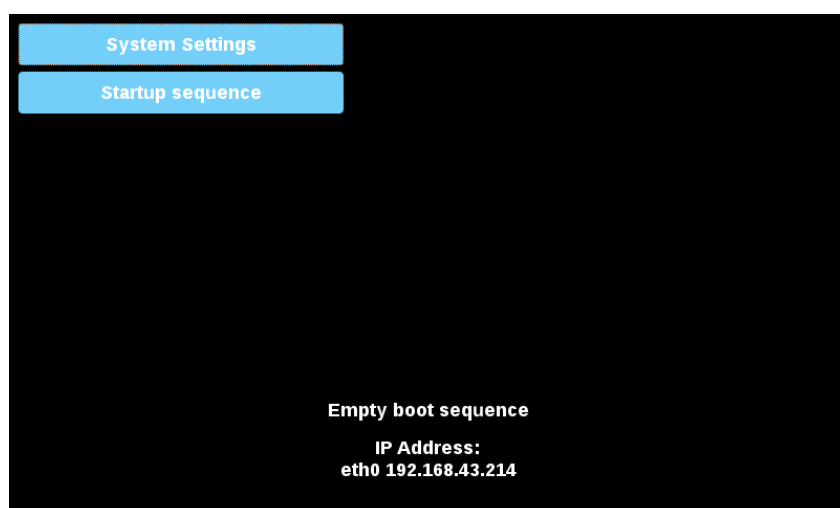
# 1 Chromium

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Chromium is an HTML 5 web browser, based on the open-source web browser project started by Google, that can be installed on the HMI devices based on Linux platform. The application will be installed as a full screen standalone application.

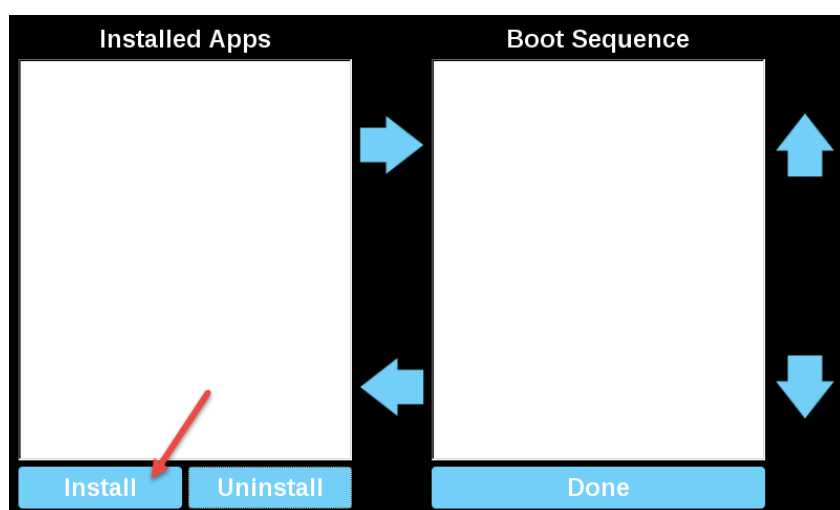
## Installation from USB

HMI devices are delivered from the factory without Runtime, at first power up the HMI shows the "Runtime Loader" screen (if you already have an installed application see how ["Enter System Settings via tap-tap procedure"](#) on page 6 to activate the below page).

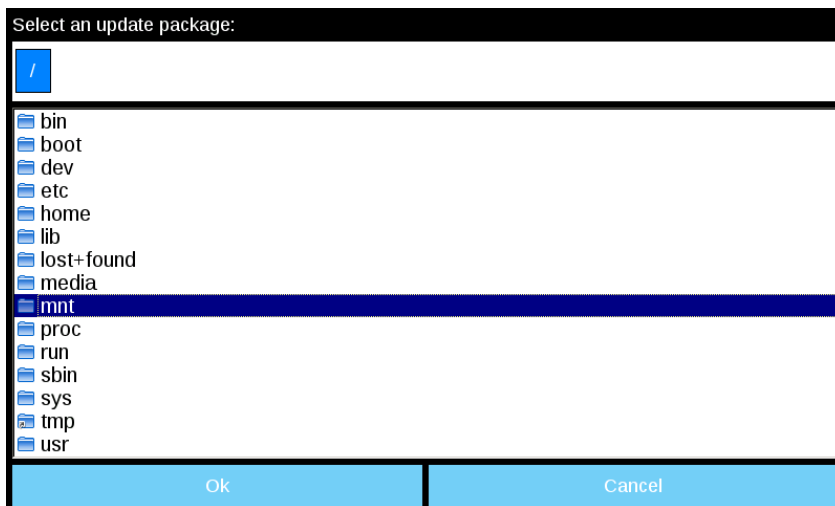


To install the Chromium application, follow this procedure:

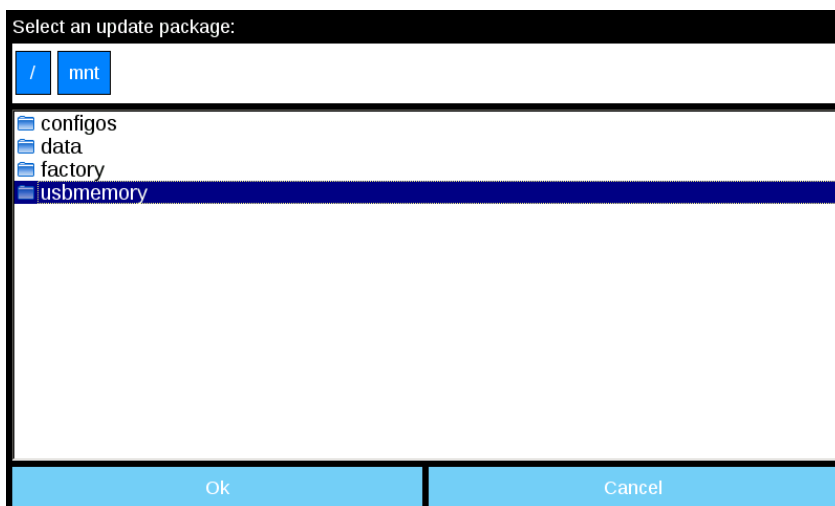
1. Copy the application file (e.g. chromium-un6x-52-0.13.zip) into an empty USB memory stick
2. On the HMI, select [Startup sequence], then [Install]



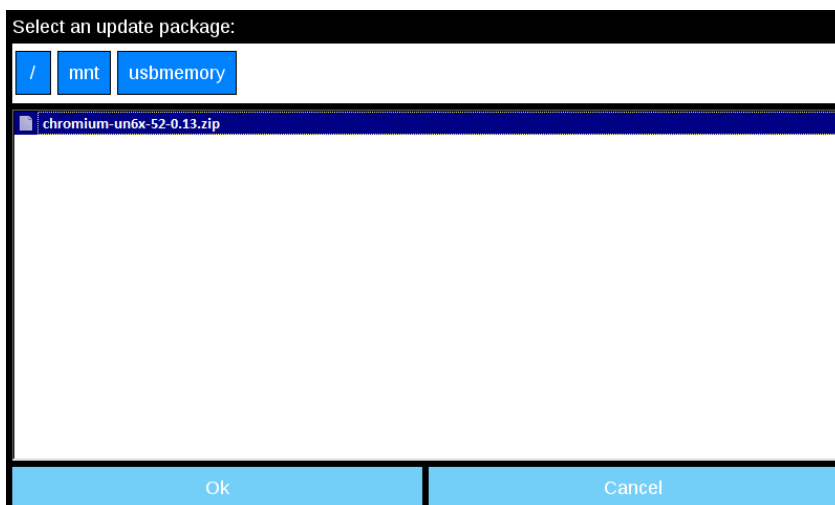
3. Double click on "mnt" to access this folder



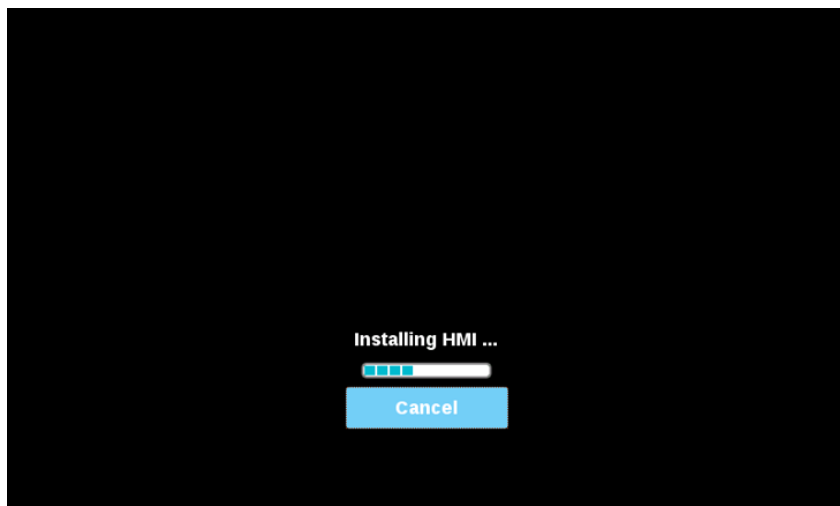
4. Then on “usbmemory”



5. Select the Chromium package



6. The runtime installation begin

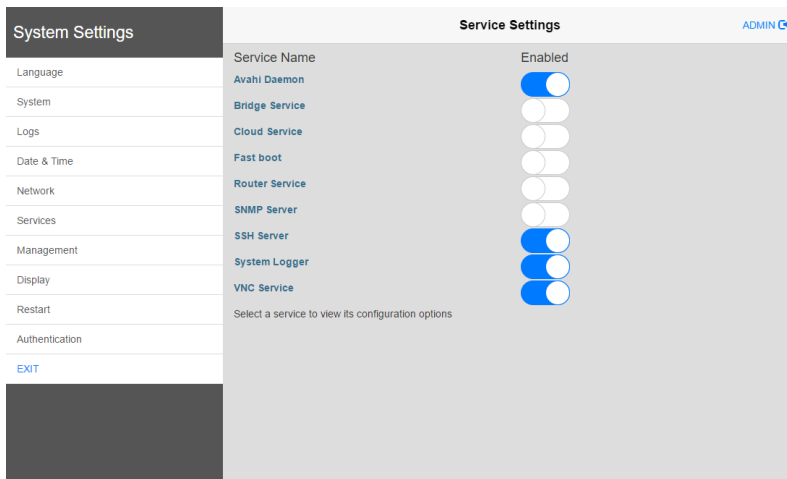


Note: File systems supported are FAT16/32 and Linux Ext2, Ext3 and Ext4.

At the end of the installation procedure, HMI device will restart to Chromium application will start in full screen.

# Installation from Remote

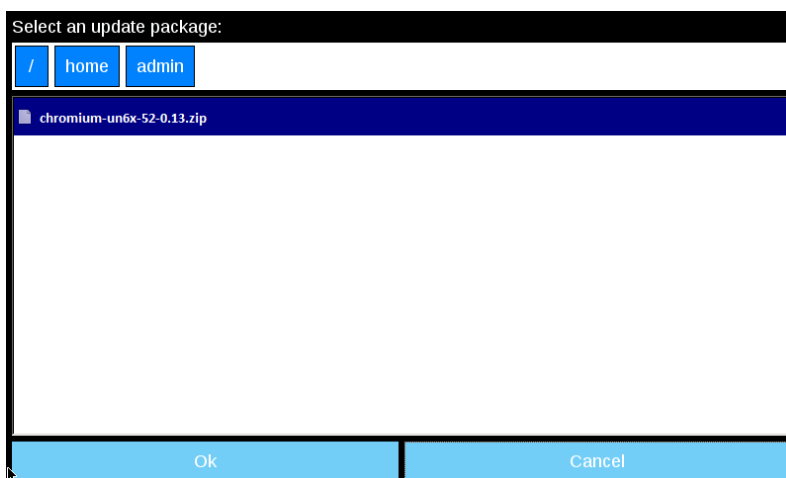
- Using the System Setting interface of the HMI device from a Web browser be sure the “SSH Server” and the “VNC Service” services are enable.



- If there are some applications already installed inside the HMI device, use the System Setting interface to remove all (Management->Data->Clear)
- Use an SFTP application (e.g. FileZilla) to log into HMI device and upload the package of the Chromium application somewhere (e.g. inside /home/admin folder)

Filename	Filesize	Filetype	Last modified	Permissions	Owner/Group
..					
.bashrc	505	BASHRC File	15/03/2017 20:52:30	-rwxr-xr-x	admin admin
.profile	152	PROFILE File	15/03/2017 20:52:30	-rwxr-xr-x	admin admin
chromium-un6x-52-0.13.zip	55.217.049	zip Archive	13/06/2017 14:04:05	-rw-r--r--	admin admin

- Get access at the display of the remote HMI device using a VNC client. Then click on [Start Sequence] button and install the package previous upload through the SFTP client.



- Use the SFTP connection to log into HMI device and remove the package previously uploaded.



# Settings

At the first start up the home page loaded from Chromium is the Settings page. Note that a Sign-In is required to enter inside the Settings page. User name and password are the same as the HMI device (default admin, admin) and can be changed from the HMI System Settings.

## Username

## Password

From the Settings page all Chromium's parameters are available, in particular is possible define the home page that will load when the HMI start (HMI need a reboot to switch to new page).

The "*Panel Setting*" command, available inside the menu on the left area, will open the System Setting of the HMI device.

System Settings

On startup

- Open Settings
- Continue where you left off
- Open Homepage

Homepage

https://www.google.com

Tool Bar

Enable Tool Bar

Appearance

Font size Medium (Recommended) ▾

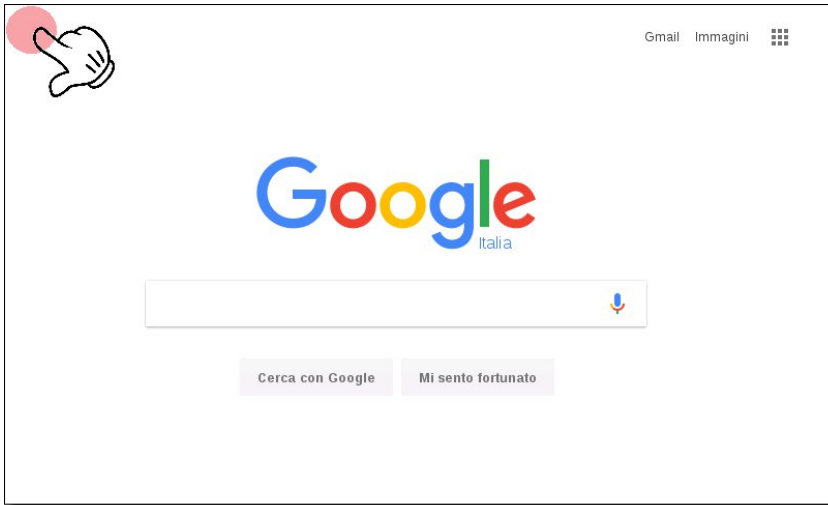
Customize fonts ▸

Page zoom 100% ▾

Privacy and security

Chromium may use web services to improve your browsing experience. You may optionally disable these services. [Learn more](#)

When the Address Bar is not available, the Chromium Settings page can be open keeping pressed the top left edge of the display for few seconds.



## Address Bar

When enabled, the Address Bar can be open/close using the tab in the middle of the top area of the display.

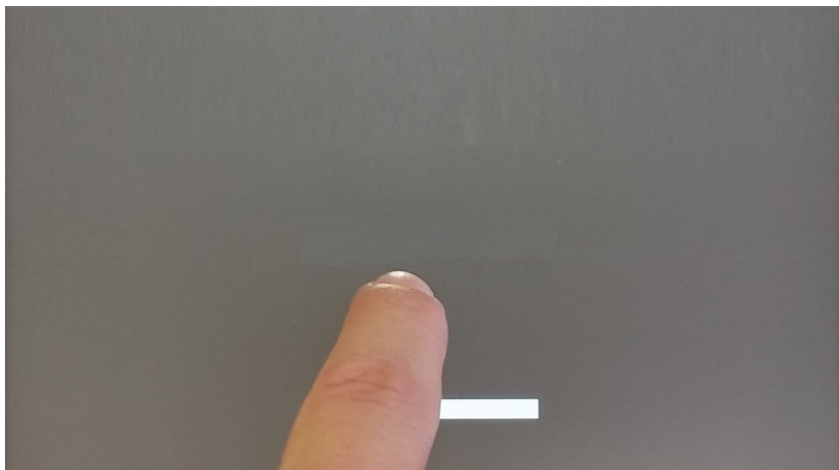


Available commands are:

- Page Reload
- Bookmark List
- URL Address
- Add Bookmark
- Open Setting Page

## Enter System Settings via tap-tap procedure

Tap-tap consists in a sequence of several touch activations by simple means of the finger tapping the touch screen performed during the power-up phase and started immediately after the HMI is powered on.



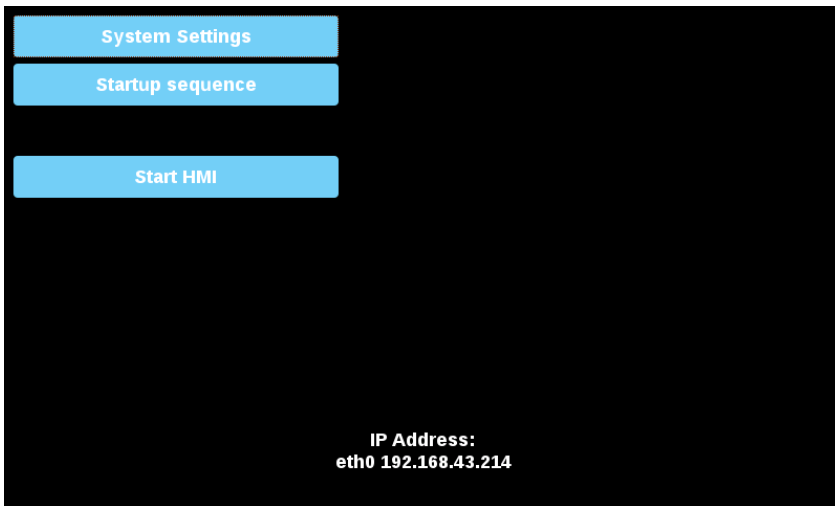
When "tap-tap detected" message appears on the top of the screen. Wait for 5 seconds (without touching the screen) to enter System Settings sub menu



Wait for 5 more seconds (without touching the screen) to enter Default Mode



"System Setting" and the "Startup sequence" buttons will be available





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**Exor International S.p.A.**  
Via Monte Fiorino, 9  
37057 San Giovanni Lupatoto (Verona)  
Italy

[info@exorint.com](mailto:info@exorint.com)  
**phone:** +39 045 8750404  
**fax:** +39 045 8779023