

Manual

Fortec Integrated

VideoPoster-M4

Industrial UHD Media player based on Raspberry CM4 (images and videos in playlist)

PA-45-XXX



V1.3

18.07.2025

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UNITED STATES

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1 Revision History

Date	Rev. No.	Description	Author	Page
18.10.2024	1.0	Initial version	Chayma Hajjem	All
24.10.2024	1.1	Update images	Chayma Hajjem	9,10
25.10.2025	1.2	Update cover template	Chayma Hajjem	All
18.07.2025	1.3	Update Fortec template Add supported Monitor Update pictures	Chayma Hajjem	All

2 Introduction

VideoPoster-M4 is an industrial media player based on Raspberry Pi Compute Module 4 (CM4) for displaying shows containing still images and video clips. On start-up, it automatically loops over a playlist until a content update is detected.

Updates for the show can be distributed over various sources. They can be detected on hot-plugged USB flash drives or directly be uploaded to the device via network. Another method to receive content updates is to configure the device for periodically polling a remote FTP server.

VideoPoster-M4 supports the following Fortec monitor series:

- BLO-Line
- POS-Line
- Standard monitor

3 Features

- Auto-play and auto-loop of playlist after power on
- Playback of 4K videos and still images
- H.264 (MPEG-4, Part 10) video decoding up to 1080p30
- H.265 (MPEG-4) Video decoding up to 4Kp60
- Seamless video playback
- Various transition effects for still images
- Content update via USB flash drive or network
- Auto Content Update from remote FTP server
- Playlist scheduling
- Playlist triggering via network, RS-232 and USB button board
- Wi-Fi connectivity via USB Wi-Fi adapter
- 3 GB up to 30 GB internal flash memory to store content (depends on the used Raspberry Pi Compute Module)
- Optional MicroSD card up to 128 GB to store content
- External HDMI input to connect other HDMI sources to the display
- Stereo audio line out
- Free Windows® software ACC for easy playlist generation and distribution
- Free Windows® software Artista Device Finder to find the devices in the local network

4 Software

4.1 ACC

ACC is free Windows® software to generate and distribute content for VideoPoster-M4 conveniently.

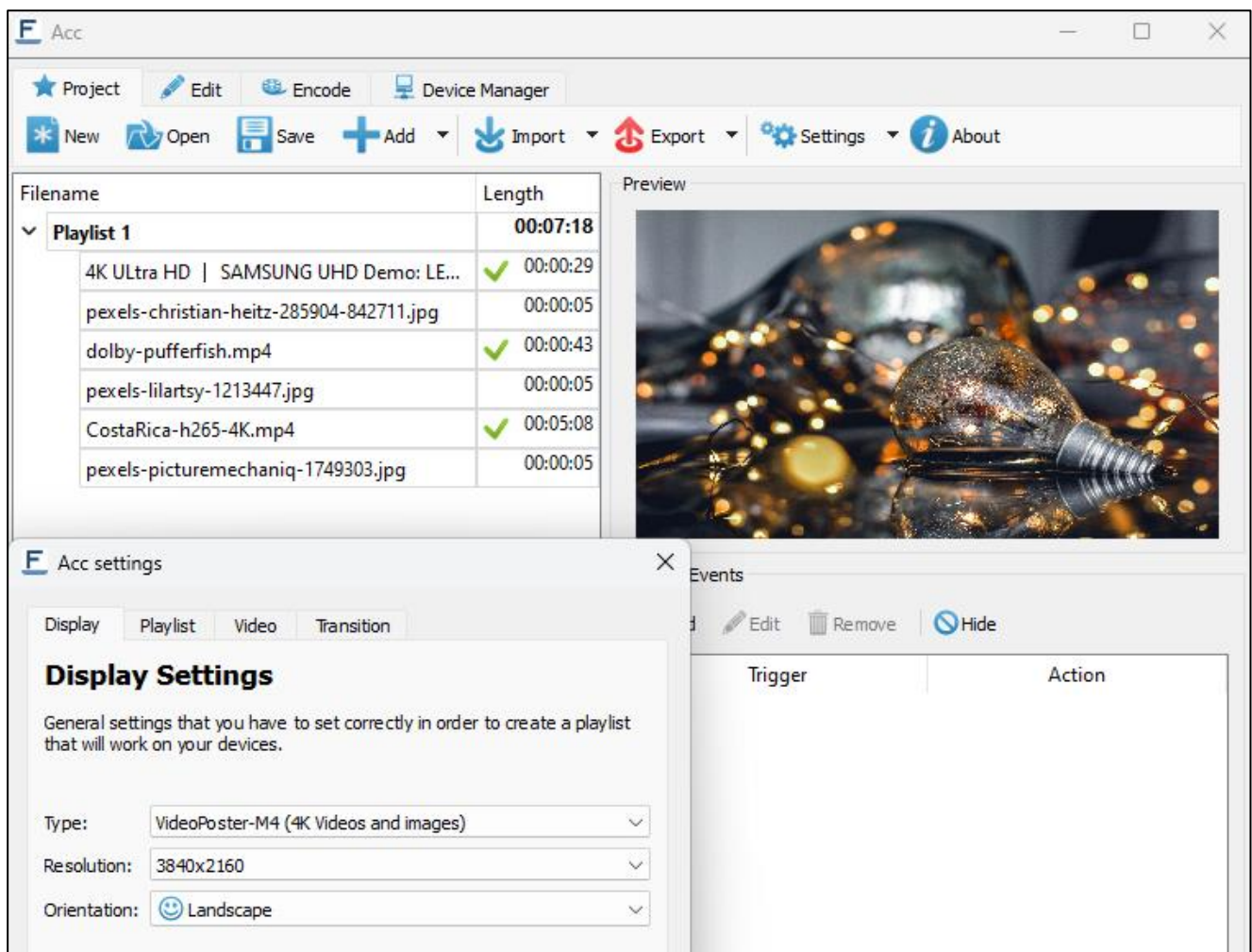
Features:

- Create playlists with videos and images
- Define trigger events to switch between different playlists
- Encode videos if the current format is not supported by VideoPoster-M4
- Export the playlist to an USB flash drive, if VideoPoster-M4 is not connected to network
- Administrate Video-Posters connected to the local network (LAN) in the Device Manager
- Transmit playlists over network directly to the media player
- Monitor the status of the connected Video-Posters

For further details please refer to the ACC manual.

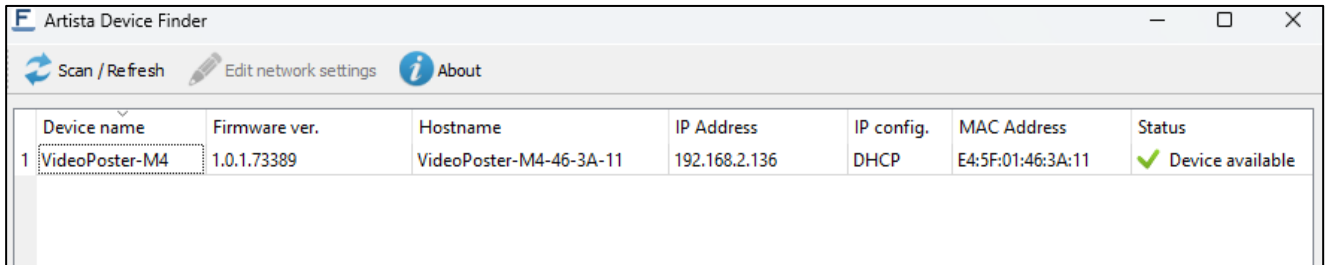
The latest version of the ACC software can be downloaded here:

<https://www.distec.de/en/service/downloads/videoposter-downloads/>



4.2 Artista Device Finder

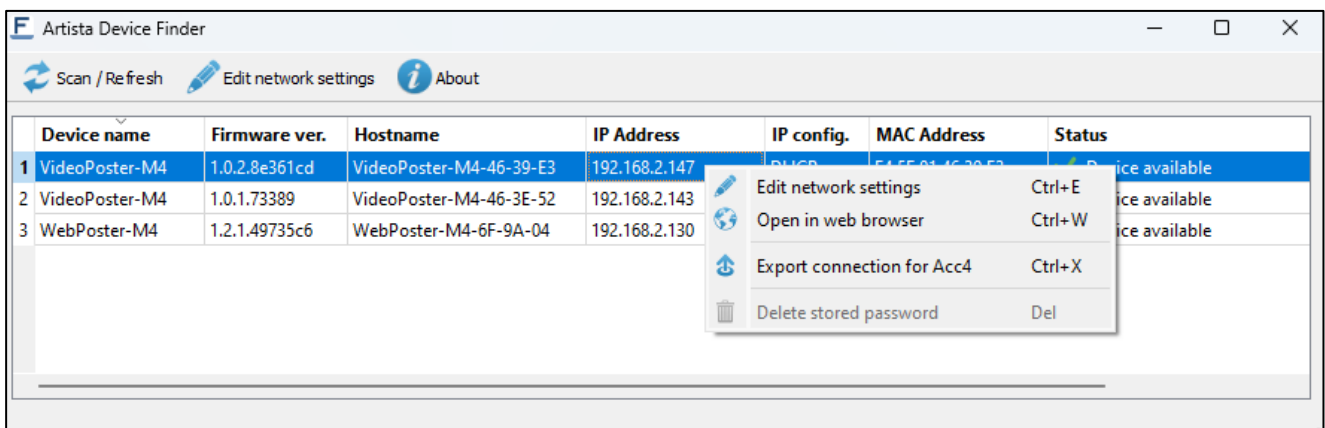
Artista Device Finder is free Windows® software to find and configure VideoPoster-M4 devices in the local network. This works even if the network interface of the media player is not configured correctly yet.



	Device name	Firmware ver.	Hostname	IP Address	IP config.	MAC Address	Status
1	VideoPoster-M4	1.0.1.73389	VideoPoster-M4-46-3A-11	192.168.2.136	DHCP	E4:5F:01:46:3A:11	✓ Device available

Features:

- Scan the local network for connected VideoPosters
- Configure the network interface of the device. E.g. enable / disable DHCP, change the hostname, IP address, etc.
- Open the web frontend of VideoPoster-M4 in the web browser for further device configuration
- Export the network connection data to be imported into ACC later



	Device name	Firmware ver.	Hostname	IP Address	IP config.	MAC Address	Status
1	VideoPoster-M4	1.0.2.8e361cd	VideoPoster-M4-46-39-E3	192.168.2.147	DHCP	E4:5F:01:46:39:E3	✓ Device available
2	VideoPoster-M4	1.0.1.73389	VideoPoster-M4-46-3E-52	192.168.2.143	DHCP	E4:5F:01:46:3E:52	✓ Device available
3	WebPoster-M4	1.2.1.49735c6	WebPoster-M4-6F-9A-04	192.168.2.130	DHCP	E4:5F:01:46:6F:9A	✓ Device available

Edit network settings Ctrl+E

Open in web browser Ctrl+W

Export connection for Acc4 Ctrl+X

Delete stored password Del

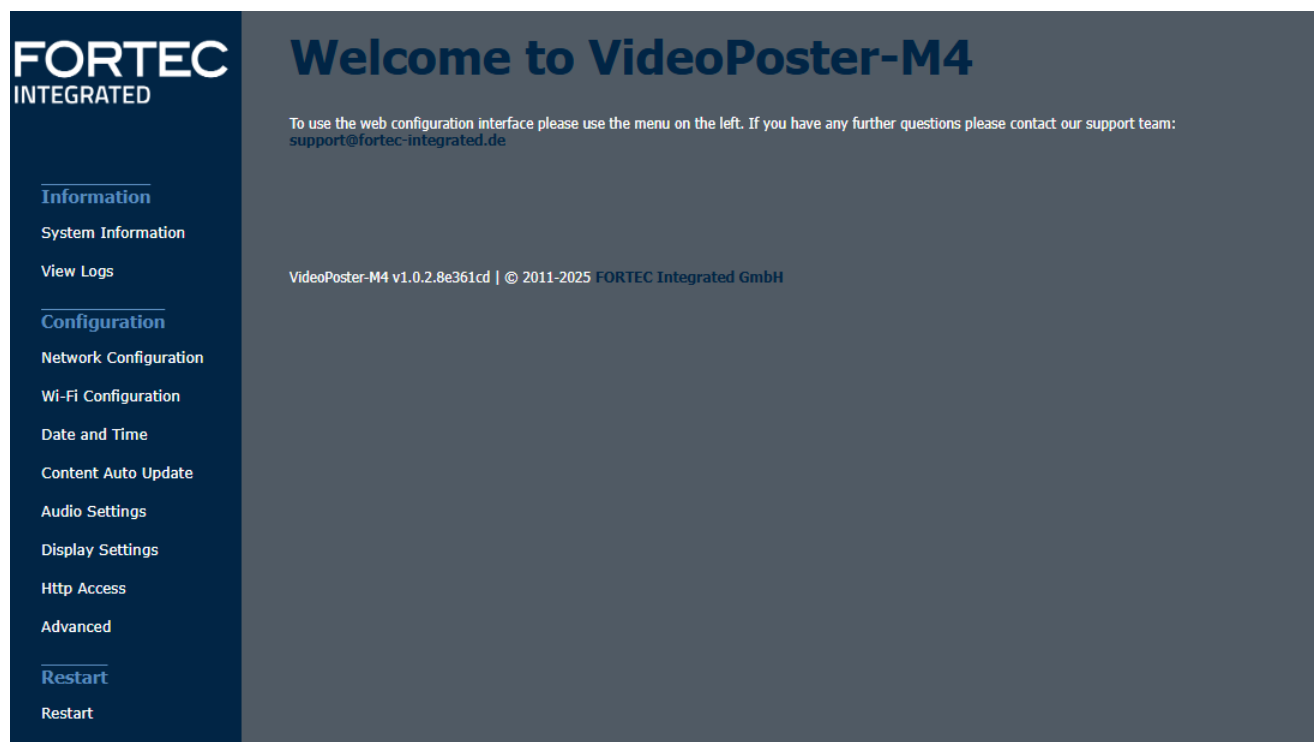
For further details please refer to the Artista Device Finder manual.

The latest version of Artista Device Finder software can be downloaded here:

<https://www.distec.de/en/service/downloads/videoposter-downloads/>

5 Device Configuration via Web Browser

The VideoPoster-M4 configuration interface can be accessed with any common web browser like Firefox, Chrome, Internet Explorer, and many others. You can establish the connection by using the Windows software Artista Device Finder or by typing the IP address of your device into the browser manually. The current IP address of VideoPoster-M4 is displayed on the screen during the system start after power on. When you are asked for the device password, use the default password (see Default VideoPoster-M4 Configuration).



The menu on the left gives access to the various functions provided by the web frontend.

5.1 System Information

This page provides details about the system. If you should have any technical questions for our support team, please attach the displayed information page to your e-mail. This will speed up processing of the inquiry.

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VideoPoster-M4 System Information

Listing of most important device parameters and settings

Firmware Information

- Configuration Name: NE156QUM-N66
- Configuration version: 1.0.0.0
- Firmware version: 1.0.2.8e361cd
- Kernel version: 6.1.21-v7l.71730.1
- Display controller version: 1.2.0
- Operating mode: Normal

Hardware Information

- Hardware version: 0.0_01
- CPU temperature: 56 °C
- CPU frequency: 900 MHz

Filesystem Usage

Storage	Size	Used	Avail	Use%
Internal1:	13G	188K	12G	1%
SD Card:	not supported			

Display Configuration

- Master brightness: 100%
- Display brightness: 100%
- Display power status: On
- Resolution: 3840x2160
- Input source: internal

Network Configuration

- Network setup: DHCP
- IP-address: 192.168.2.147
- Netmask: 255.255.255.0
- Gateway IP-address: 192.168.2.10
- Hostname: VideoPoster-M4-46-39-E3
- Domain: datadisplay.de
- DNS: 192.168.30.2 192.168.30.15
- MAC-address: E4:5F:01:46:39:E3
- Description: VideoPoster-M4

Wi-Fi Configuration

- Wi-Fi status: Off
- Interface status: Active
- Network SSID: Not connected

Serial Port Configuration

- Baud rate: 19200

Date and Time

- Date and Time setup: Manual
- Time: Sat May 13 10:37:55 UTC 2023
- Time zone: Etc/UTC

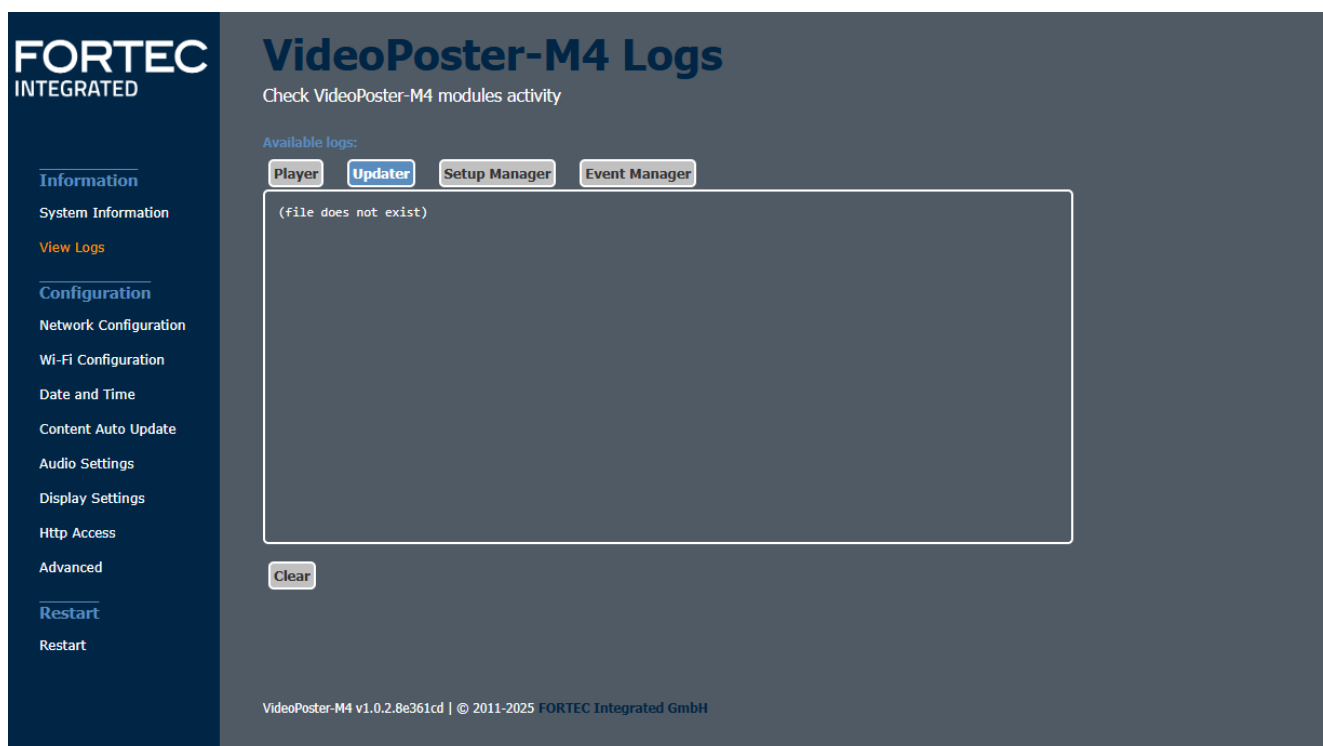
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5.2 View Logs

VideoPoster-M4 operation can be monitored through its log files. There are several dedicated log files on the board, each committed to logging of a particular subsystem:

- Player – shows content playback status and error messages
- Updater – shows content update status or error messages
- Setup Manager – shows which setup files have been executed on the board
- Event Manager – shows errors related to event processing

The log files can be erased by clicking “Clear”.



5.3 Network Configuration

The first step in configuration of the VideoPoster-M4 is setting up its network parameters. The settings entered can be applied by clicking “Submit configuration”. “Reset configuration” can be used to reset all fields. This will have no effect on the actual configuration settings - only the form inputs will be cleared.

5.3.1 Using DHCP

To use DHCP for network configuration, tick the “Use DHCP” checkbox. If the device should be reachable by its hostname, the DHCP server must be able to pass hostnames to the DNS. The default hostname of VideoPoster-M4 has the following form: VideoPoster-M4-xx-xx-xx (VideoPoster-M4- followed by the last 3 bytes of its MAC address) but can be set to something more descriptive if needed. The network settings will be displayed on the splash screen shown during start-up of the device.

If DHCP setup fails, the device’s network will be configured with its default settings (see Default VideoPoster-M4 Configuration).

5.3.2 Using Static IP Addresses

To use a static network configuration for VideoPoster-M4, disable the “Use DHCP” checkbox. In this mode the following network parameters can be set manually:

- IP address of VideoPoster-M4
- Netmask
- IP address of the Gateway
- Hostname of VideoPoster-M4
- Domain
- IP address of the Nameserver (one or more Nameserver addresses separated by space)

When using a static IP address, it must be assured that this address is not used by any other device connected to the network. Please contact your network administrator for details and configuration parameters.

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Network Configuration

Set up your VideoPoster-M4 device's network interface

Name	Value	Description
Use DHCP:	<input checked="" type="checkbox"/>	On submit, you will be redirected to the new address.
VideoPoster IP-Address:	<input type="text" value="192.168.2.147"/>	Assign a valid IP-Address that is unique in your network.
Netmask:	<input type="text" value="255.255.255.0"/>	Usually 255.255.255.0
Gateway IP-Address:	<input type="text" value="192.168.2.10"/>	Enables access to/from other subnets.
VideoPoster Hostname:	<input type="text" value="VideoPoster-M4-46-39-E3"/>	Assign a hostname which is unique in your network.
Domain:	<input type="text" value="datadisplay.de"/>	The network domain your VideoPoster is part of
Nameserver IPs:	<input type="text" value="192.168.30.2 192.168.30.15"/>	IP address of one or more nameservers, separated by space.
VideoPoster Description:	<input type="text" value="VideoPoster-M4"/>	A free description.

Please Note

If you have questions regarding your network parameters, please contact your network administrator.
If the IP-Address of your VideoPoster-M4 changes on submit, your browser will be automatically redirected to the new address.

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5.4 Wi-Fi Configuration

With firmware version 1.0.0 and above VideoPoster-M4 can be connected to wireless (Wi-Fi) networks.

To use VideoPoster-M4 with Wi-Fi networks, one of the following USB Wi-Fi adapters is required:

PC-04-032	Raspberry Pi USB WiFi Adapter
PC-04-034	EDIMAX EW-7811UN Wireless USB Adapter
PC-04-035	EDIMAX EW-7811UN V2 Wireless USB Adapter
PC-05-071	DELOCK 12462 WLAN Stick/Antenna USB 2.0

Detailed information about the supported network connections of VideoPoster-M4:

- VideoPoster-M4 can use either a wired network (LAN) or a wireless (Wi-Fi) network. It is not possible to use both network connections at the same time
- The wired network connection has a higher priority than the Wi-Fi network connection. That means that the wireless network connection is used, if the Wi-Fi connection is configured properly and the network cable is NOT connected to VideoPoster-M4
- VideoPoster-M4 can connect to just one Wi-Fi network at the same time

Supported Wi-Fi security standards:

- WPA / WPA2PSK (recommended)
- WEP
- None

Wi-Fi connection status details:

Status	Description	Conditions
Authentication failed	A wrong security key has been used. Press the button "Remove" to remove the connection and add it with the correct security key again	VideoPoster-M4 is currently connected via wired (LAN) network. The corresponding Wi-Fi network is currently in the range of VideoPoster-M4
Connected	The new Wi-Fi connection has been stored and can be used after the restart of VideoPoster-M4. Make sure, the network cable is disconnected from VideoPoster-M4 at power on	VideoPoster-M4 is currently connected via wired (LAN) network. The corresponding Wi-Fi network is currently in the range of VideoPoster-M4
	VideoPoster-M4 is connected and using the corresponding wireless (Wi-Fi) network	VideoPoster-M4 is currently connected via the corresponding wireless (Wi-Fi) network
Not connected	The corresponding Wi-Fi connection is stored on VideoPoster-M4 but is currently not connected since another Wi-Fi connection is connected already. VideoPoster-M4 can just connect to one Wi-Fi network at the same time	VideoPoster-M4 is currently connected via wired (LAN) or wireless (Wi-Fi) network. The corresponding Wi-Fi network is currently in the range of VideoPoster-M4
Not in range	The corresponding Wi-Fi network is stored on VideoPoster-M4 but is currently NOT in the range of VideoPoster-M4	VideoPoster-M4 is currently connected via wired (LAN) or wireless (Wi-Fi) network. The corresponding Wi-Fi network is currently NOT in the range of VideoPoster-M4
Unknown	The corresponding Wi-Fi network is currently in the range of VideoPoster-M4 but is NOT stored on VideoPoster-M4	VideoPoster-M4 is currently connected via wired (LAN) or wireless (Wi-Fi) network. The corresponding Wi-Fi network is currently in the range of VideoPoster-M4

Steps to set up a Wi-Fi connection with VideoPoster-M4:

1. Disconnect VideoPoster-M4 from power supply
2. Connect VideoPoster-M4 via a patch cable to a wired network (LAN)
3. Insert the USB Wi-Fi adapter into a free USB port of VideoPoster-M4
4. Power on VideoPoster-M4 and wait until the message "No playlist" or the content appears on the screen
5. Connect to the web frontend of VideoPoster-M4 with a web browser. Details about this can be found here: [Device Configuration via Web Browser](#)
6. Select the menu "Wi-Fi Configuration"
7. Make sure, the interface status is "Wi-Fi interface active". That means that the USB Wi-Fi adapter is detected by VideoPoster-M4
8. Enable the checkbox "Enable Wi-Fi"

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Wi-Fi Configuration

Set up your VideoPoster-M4 device's Wi-Fi interface

Enable Wi-Fi: ☒

Interface status: Wi-Fi interface active

Wi-Fi Networks: Scan

Network SSID	Security Key	Security Standard	Signal Strength	Status	
DD-Guest		WPA/WPA2PSK	50%	Unknown	Add
DD-IoT-WLAN		WPA/WPA2PSK	50%	Unknown	Add
DD-OfficeLAN		WPA/WPA2PSK	50%	Unknown	Add
TP-Link_EFDB		WPA/WPA2PSK	100%	Unknown	Add
Panel1 - SAMSUNG 55 CRY		WPA/WPA2PSK	50%	Unknown	Add
FORTEC Gast		None	50%	Unknown	Add
		WPA/WPA2PSK			Add

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a.) Scan for Wi-Fi networks in the range of VideoPoster-M4 and connect to it:

- Press the button "Scan" to find all Wi-Fi networks detected by VideoPoster-M4
- Enter the "Security Key" of the Wi-Fi network to be used
- Press the button "Add" to save the network parameters accordingly
 - o VideoPoster-M4 tries to connect to this network
 - o Press the button "OK" after 5 seconds to return to the "Wi-Fi Configuration" page
 - o Check the status of the Wi-Fi network connection. It must be "Connected". That means, that VideoPoster-M4 is able to connect to the Wi-Fi network, but it is not used yet
- Disconnect VideoPoster-M4 from wired network (LAN)
- Restart VideoPoster-M4 to connect it to the Wi-Fi network
- The network parameters of VideoPoster-M4 are shown during startup on the screen (IP address, network mask and Gateway IP)

b.) Manually add Wi-Fi networks currently out of range of VideoPoster-M4:

- Enter the "Network SSID" of the Wi-Fi network to be used
- Enter the "Security Key" of the Wi-Fi network to be used
- Select the "Security Standard" of the Wi-Fi network to be used
- Press the button "Add" to save the Wi-Fi network configuration on VideoPoster-M4

- Bring VideoPoster-M4 to the installation place and start it without the attached network cable. It connects to the preconfigured Wi-Fi network automatically then

5.5 Date and Time

The time zone and the current time of your location can be set here. Setting the correct time is important if you plan to use playlist scheduling.

Setting the time zone of your location:

- Select the menu "Data and Time"
- Select the tab "Time zone"
- Select the continent and town of your location
- Click "Change" to store your selection



Enable usage of time servers:

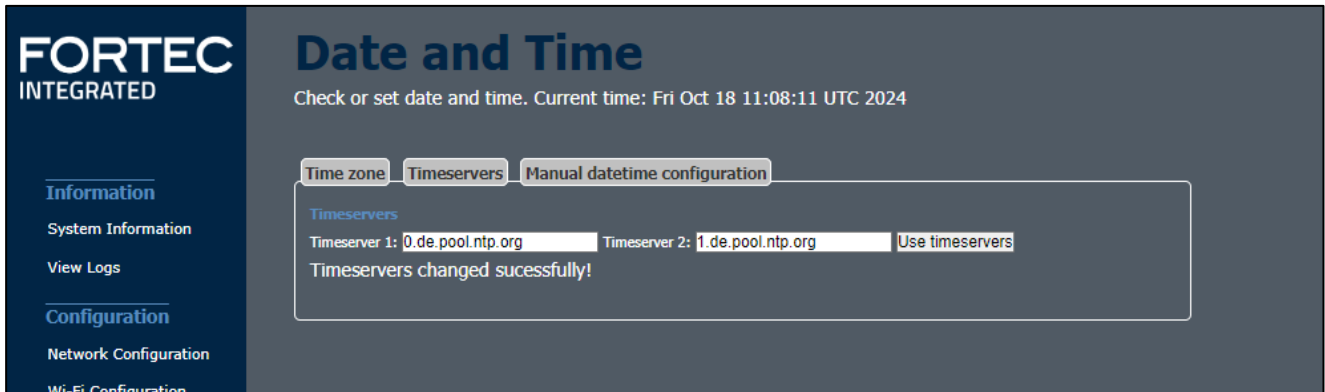
Time servers in the local area network (LAN) or internet can be used to automatically synchronize the time of VideoPoster-M4 with the local time.

Execute the following steps to enable them:

- Select the menu "Data and Time"
- Select the tab "Timeservers"
- Enter the address of the time servers of your choice or leave the preselected standard time servers
- Click "Use timeservers"

Note:

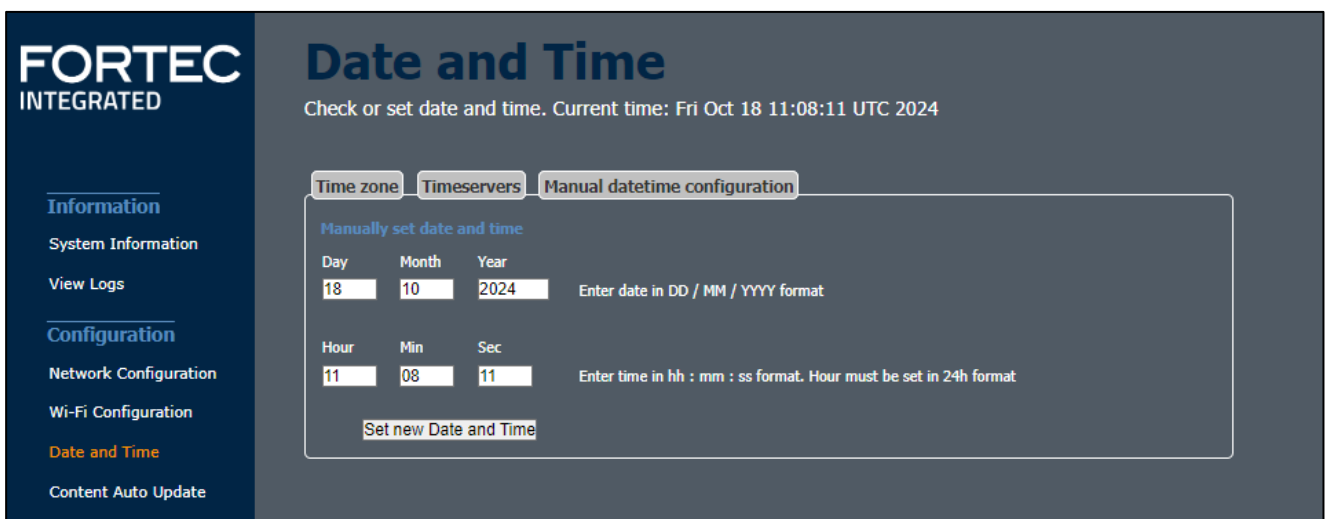
- To verify, if the usage of time servers has been enabled, check the red status message in the tab "Time servers":
 - o Disabled: Time servers are currently NOT in use
 - o Enabled: Clock is synchronized to the time server
- To verify, if the device is really synchronized to the time server, check the "System Information":
 - o Select the menu "System Information"
 - o Check the "NTP details" in the "Date and Time" section
 - Not synchronized: Message "No association ID's returned"
 - Synchronized: Table with valid NTP details is displayed
- Usually, it takes a few seconds until VideoPoster-M4 is synchronized to the time server



Manual date and time configuration:

The local date and time can also be set manually. Since VideoPoster-M4 has a battery buffered Real Time Clock (RTC) on-board, the current setting is valid even if the device is not supplied with power.

- Select the menu "Data and Time"
- Select the tab "Manual datetime configuration"
- Enter the current date and time
- Click "Set new Date and Time"



5.6 Content Auto Update

VideoPoster-M4 can periodically poll a remote FTP server for new playlists using a given interval. This menu allows you set up the connection to a remote FTP server that provides playlist updates.

To setup content auto update the following form fields must be filled out:

- Check the *Enable polling* checkbox to activate polling (disabled by default)
- Enter hostname or IP of the FTP server in the *FTP server* field
- Enter the number of the FTP server's port (usually 21) in *FTP port*
- Provide a valid username and password in the *Username* and *Password* fields
- In *Playlist dir* provide the path on the remote server where the PlaylistContent directory is located. Please do not append "PlaylistContent" to this path and make sure that the folder exists!
- The *Polling interval* field is used to specify the interval between polls in seconds

On submit a connection check will be executed. If the browser lists the contents of the PlaylistContent directory on the FTP server all settings are correct, and polling will be enabled. For backward compatibility when the PlaylistContent directory is missing the device will use the directory specified in *Playlist dir* directly instead.

VideoPoster-M4 uses the following sequence for content update:

- Check the **playlist.ddx** file on the FTP server. If its size or last modified time has changed since the last download, the file will be downloaded
- Verify playlist file properties to make sure it can be played on the device. If it can't, it will be discarded.
- Check which media files are new or changed and thus not available locally yet
- Download all new media files and store them locally. If any file is missing, the playlist will be discarded.
- On success stop playback and move all downloaded files from the intermediate download directory to the live directory.
- Delete all outdated media files from the local storage and schedule new show for playback
- Restart playback with the new playlist

The device is also able to just update individual files in the playlist. This is intended for situations where some items of the playlist are provided by a third party. These items must be marked as *extern* in the playlist – please see playlist specification documentation for details.

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Content Auto Update

Set up connection parameters to the FTP server you wish to poll from

Name	Value	Description
Enable polling:	<input type="checkbox"/>	Turn FTP polling on/off
Enable Monitoring:	<input type="checkbox"/>	Turn FTP system monitoring on/off
FTP server:	<input type="text"/>	Server name or IP address
FTP port:	<input type="text" value="21"/>	FTP port on the server (normally 21)
Username:	<input type="text"/>	Enter user name
Password:	<input type="password"/>	Enter password for the user
Playlist dir:	<input type="text" value="/"/>	Relative path to the show playlist directory (from ftproot directory)
Polling interval:	<input type="text" value="10"/>	Enter sleep interval between two consecutive poll attempts (in seconds)

[Discard changes](#)
[Check settings](#)
[Submit settings](#)

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5.7 Audio Settings

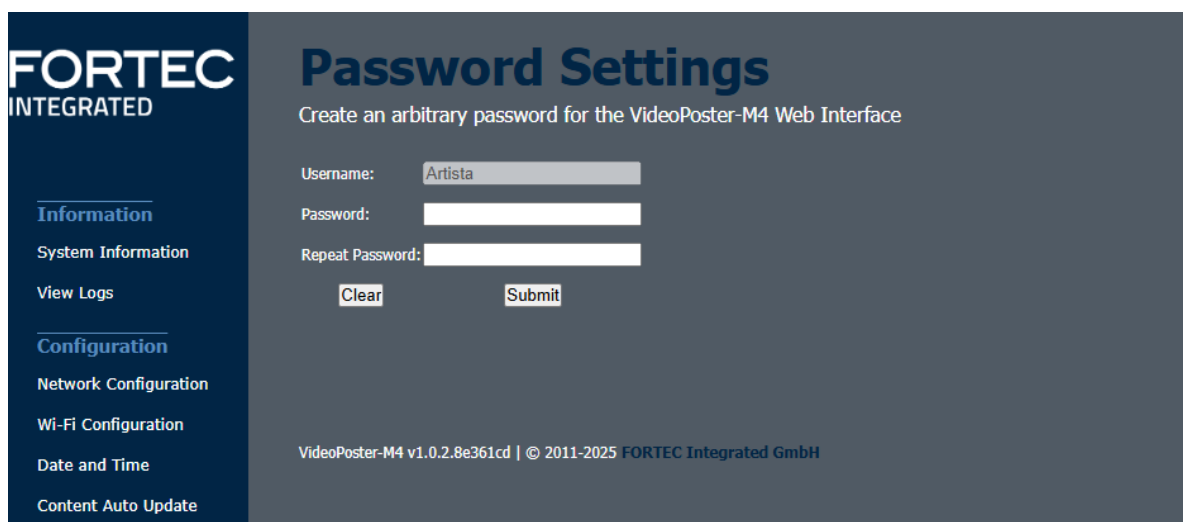
This page can be used to set a master volume level for audio playback. Its allowed values range from 0% to 100%. Volume values given in the playlist are regarded as per cent from this value.

5.8 Display Settings

This page can be used to set a master brightness level for video display. Its allowed values range from 0% to 100%. Brightness values given in the playlist are regarded as per cent from this value.

5.9 Http Access

The password for accessing the web frontend can be changed by using the following menu:



The screenshot shows the 'Password Settings' page of the Fortec Integrated web interface. On the left is a dark blue sidebar with the 'FORTEC INTEGRATED' logo at the top. Below the logo, there are two main sections: 'Information' and 'Configuration'. Under 'Information', there are links for 'System Information', 'View Logs', and 'Content Auto Update'. Under 'Configuration', there are links for 'Network Configuration', 'Wi-Fi Configuration', and 'Date and Time'. The main content area has a dark grey background. At the top, it says 'Password Settings' in large blue letters, followed by the subtitle 'Create an arbitrary password for the VideoPoster-M4 Web Interface'. Below this, there are three input fields: 'Username:' with the value 'Artista', 'Password:', and 'Repeat Password:'. There are 'Clear' and 'Submit' buttons below the password fields. At the bottom of the main area, it says 'VideoPoster-M4 v1.0.2.8e361cd | © 2011-2025 FORTEC Integrated GmbH'.

The new password must be entered twice to prevent the device from being inaccessible due to typing errors. Form data can be reset by clicking “Clear”. By pressing “Submit” the new password will be activated and you will have to re-login on changing to any other page of the web frontend.

5.10 Advanced

In Advanced Options you can choose to update VideoPoster-M4 firmware, change its hardware configuration, or format the SD card, if available.

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Advanced Options

VideoPoster-M4 update and maintenance options

[Firmware Update / Board Setup](#)

Please select the correct setup file. Please ensure that the file fits your hardware needs. In case of any doubt please contact our support team: support@fortec-integrated.de

VideoPoster-M4 setup file: No file chosen

[Artista Device Finder Support](#)

Artista Device Finder Support is currently ENABLED

[HDMI Input Priority](#)

Note: This feature is only supported in ArtistaMedia-IV VBO variant.

If HDMI input priority is enabled, the video signal coming from the external HDMI input port is displayed on the screen instead of the signal coming from the internal media player. If the external HDMI source is disconnected or switched off, the system switches back to the internal media player automatically. If HDMI input priority is disabled, the external HDMI input signal is ignored.

Input priority is currently ENABLED

[Serial port configuration](#)

Baud rate:

[Master Reset](#)

Master reset sets all configuration parameters back to their default values, clears the internal storage and reboots the device!

VideoPoster-M4 v1.0.2.8e361cd | © 2011-2025 FORTEC Integrated GmbH

5.10.1 Firmware Update / Board Setup

The following function can be used to apply firmware update or setup packages to VideoPoster-IV.

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- Information
 - System Information
 - View Logs

Advanced Options

VideoPoster-M4 update and maintenance options

[Firmware Update / Board Setup](#)

Please select the correct setup file. Please ensure that the file fits your hardware needs. In case of any doubt please contact our support team: support@fortec-integrated.de

VideoPoster-M4 setup file: No file chosen

Please contact your sales contact in the FORTEC Group to get the required file.

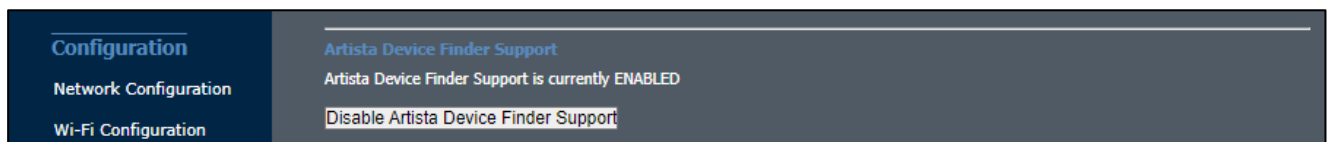
To check information about your device, select *System Information* from the menu on the left. Please make sure that the firmware update or setup file you are going to install is compatible with your hardware.

Click the *Browse* button and then choose the correct firmware update or setup file. Then press *Upload to VideoPoster-M4* to upload and install the software on the device.

Warning:
Do not power off your device while the update process is running!
This can damage the hardware!

5.10.2 Artista Device Finder Support

Here you can enable or disable support for the Artista Device Finder tool. If enabled (default), network configuration can be done remotely from a PC connected to the same **physical** network (for browser access, the PC and the device must be in the same subnet, for Artista Device Finder this is not mandatory). Please see the Artista Device Finder manual for more information.

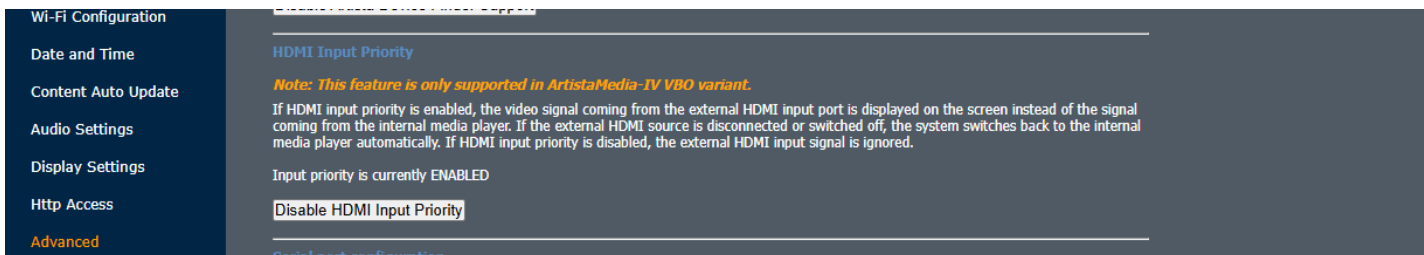


5.10.3 HDMI Input Priority

The external HDMI input port of VideoPoster-M4 can be used to show content from an external HDMI source like PCs, media players or Set-Top-Boxes on the screen. Per default, the external player has priority over the on-board media player, but this can be disabled.

If the HDMI input priority is enabled, the video signal coming from the external HDMI input port is displayed on the screen instead of the signal coming from the internal media player. If the external HDMI source is disconnected or switched off, the system switches back to the internal media player automatically. If HDMI input priority is disabled, the external HDMI input signal is ignored.

Click the button to disable or enable the HDMI input priority accordingly.

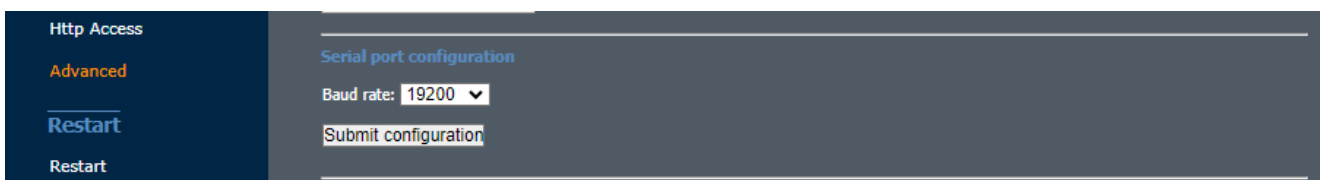


5.10.4 Serial Port Configuration

The baud rate of the serial port of VideoPoster-M4 can be configured to one of the following values: 1200, 2400, 9600, 19200, 57600, 115200

The default value is 19200.

To change the baud rate, select the desired value via the drop-down menu and click "Submit configuration".



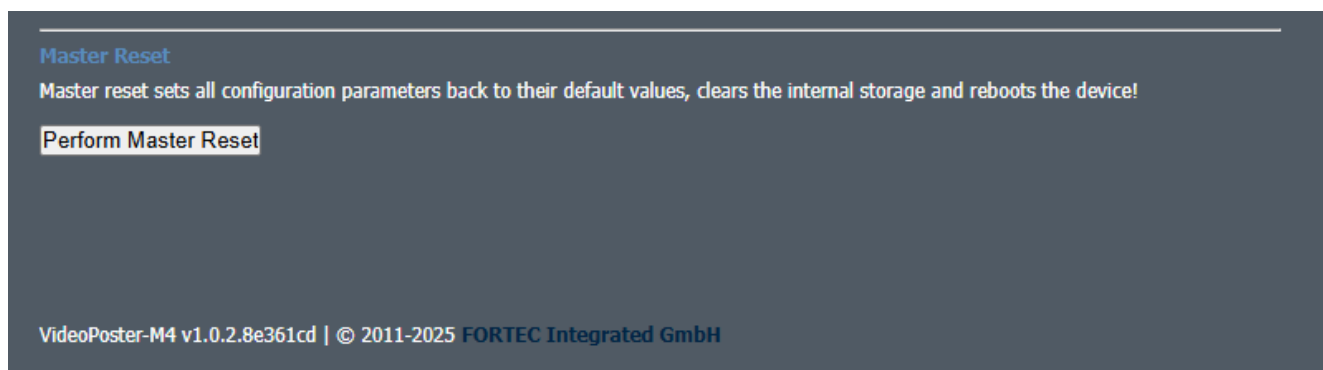
5.10.5 Media Storage Formatting (Memory Card)

Not supported.

5.10.6 Master Reset

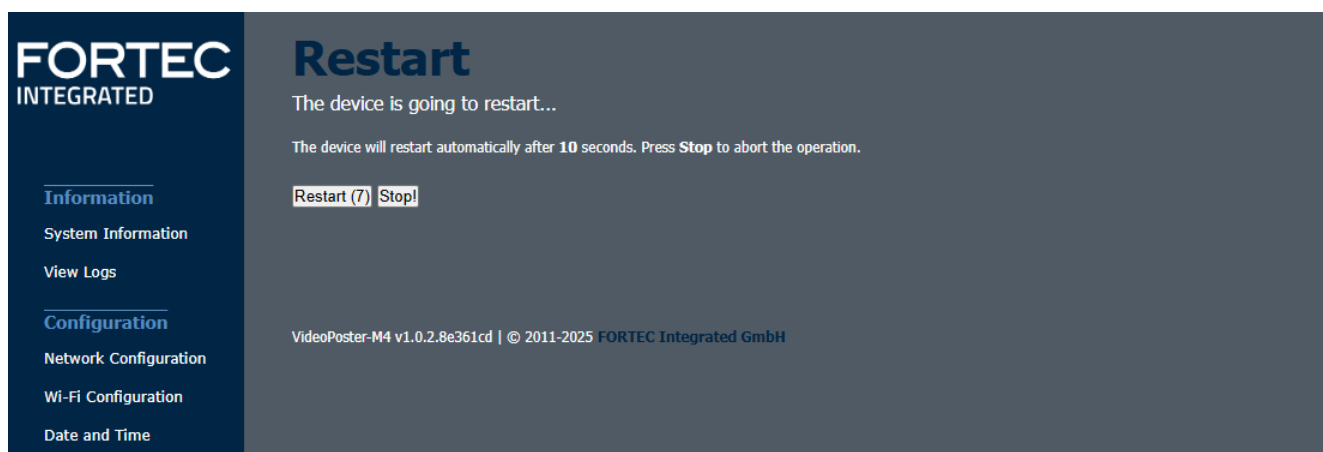
Master reset sets all configuration parameters of VideoPoster-M4 back to their factory default values, clears the internal storage and reboots the device!

Click "Perform Master Reset" to execute this function and wait until VideoPoster-M4 has restarted.



5.11 Restart

In some cases, it might be necessary to restart VideoPoster-M4. The device will automatically restart in 10 seconds but can also be restarted immediately by clicking the *Restart* button. Press *Stop* if you got on this page by mistake and don't need to restart.



6 Default VideoPoster-M4 Configuration

Default Network Configuration:

Parameter	Default Value	Notes
DHCP	Enabled	
IP Address	192.168.0.1	Default IP address, if no DHCP server is available
Netmask	255.255.255.0	Default netmask, if no DHCP server is available
Hostname	VideoPoster-M4-xx-xx-xx	xx-xx-xx represents the last 6 bytes of the device's MAC address

Default Login Data:

Parameter	Default Value	Notes
Login Name	Artista	Not configurable
Password	Artista	

7 Playlist Upload

VideoPoster-M4 supports three upload procedures: via USB, direct content upload with the ACC software and by polling of remote FTP servers. Please check the playlist type and display resolution prior to uploading to the device. If they don't match the playlist will be refused, and the old one will continue playing.

Detailed information about the supported media file formats can be found in section Supported Media Formats

7.1 USB Upload

To upload via USB, insert a USB pen drive which has the show in the PlaylistContent directory contained in the drive's root, and the device will automatically detect and copy its content. It is safe to remove the flash drive when the show starts playing. ACC can be used to create shows and export them to the USB drive.

7.2 ACC Push Upload

ACC must be used to upload content to VideoPoster-M4. In ACC you have to setup a network connection to VideoPoster-M4 device and commence upload (see ACC manual for details). The device will detect the upload and if it contains a valid playlist, will automatically start playing it.

7.3 Polling of Remote FTP Server

This mode is turned off by default, so it must first be activated and correct settings for network connection to the remote server must be provided (see Content Auto Update). Once this is done, the device will poll the PlaylistContent folder on the remote server for playlist updates. You can use ACC to upload shows to FTP server.

Normally, only the playlist.ddx file is checked for changes. If a particular item must be checked for changes the attribute "extern=true" must be added to its <src> element (see Playlist Example). VideoPoster-M4 will additionally poll these items and update them even if the playlist remains unchanged.

7.4 Playlist Example

This is an example playlist file for VideoPoster-M4. The file must be named **playlist.ddx**. Image files referenced in <src> tags must exist, or the playlist will be refused. The devices also check <devType>, <xRes> and <yRes> tags against its internal values and refuses the playlist if any of them do not match.

<ts> and <md5> tags are used to prevent unnecessary copying on update if the new playlist contains the same file.

```
<?xml version="1.0" encoding="UTF-8"?>
<artistaProject version="1.0.0">
  <prjProp>
    <prjTitle>Project1</prjTitle>
    <prjTs>1729249245</prjTs>
  </prjProp>
  <prjCont>
    <device>
      <devProp>
        <devType>VIPO-M4</devType>
        <devMinFwVer>1.0.0</devMinFwVer>
      </devProp>
      <devCont>
        <display>
          <dispProp>
            <dispOrient>0</dispOrient>
            <dispRes>
              <xRes>3840</xRes>
              <yRes>2160</yRes>
            </dispRes>
          </dispProp>
          <dispCont>
            <playlist>
              <plProp>
                <plTitle>Playlist 1</plTitle>
                <plLenms>5000</plLenms>
                <plVol>100</plVol>
                <plBrt>100</plBrt>
                <plTransition>
                  <plTranMode>Random</plTranMode>
                  <plTranOrigin>Center</plTranOrigin>
                  <plTranDir>0</plTranDir>
                  <plTranTiles>1</plTranTiles>
                  <plTranLenms>1000</plTranLenms>
                </plTransition>
              </plProp>
              <plCont>
                <item>
                  <src>BCC_SpotTV_U32_Conto_U32_Contaci_HD.mp4</src>
                </item>
                <item>
                  <src>Cows_U32_in_U32_Brittany_U32_-_U32_France.png</src>
                  <md5>dd60ce8316471b9d5e26239cd452eb1d</md5>
                  <ts>1190813726</ts>
                </item>
                <item>
                  <src>CostaRica-h265-4K.mp4</src>
                </item>
              </plCont>
            </playlist>
          </dispCont>
        </devCont>
      </device>
    </prjCont>
  </artistaProject>
</xml>
```

```

        </item>
      </plCont>
    </playlist>
  </dispCont>
</display>
</devCont>
</device>
</prjCont>
</artistaProject>

```

<!--Generated by Acc v4.0.0 at 2024-10-18T13:00:45-->

<!--Playlist information is used to compare against other uploads - please DO NOT HAND-EDIT!-->

8 Multiple Playlists

More than one playlist can be defined in the ddx file. Playback of one of these can be started by using several trigger methods. One is to specify a schedule which will start a playlist at a given point in time or switch the device to a power save mode. Another is to define triggers for certain events which can start a playlist or put the device to power save mode. Please refer to the ACC4 manual and playlist specification for more details.

9 Transition Effects

VideoPoster-M4 recognizes image transition effects which can be specified in the playlist. For each transition the following parameters can be defined:

- Mode (default *none*)
- Origin (default *top* or *center*, depending on mode)
- Length in milliseconds (default 1000, max 15000, 0 means as fast as possible)
- Tiles (values 1...250 or *random*. Default is 1)

Transition effects can be specified for the whole playlist and for specific items. Parameters defined on items override playlist effects (see example on the next page).

Possible transition effect modes are:

Mode	Description
none	Swap immediately
dissolve	Swap pixels at random position
wipe	Swap image line by line
curtain	Swap image line by line starting at both ends
circle	Circular wipe
clock	Clock wipe
random	Use random effect each time

Possible transition effect origins are:

Origin	Description
center	From center to edge
edge	From edge to center

Possible direction values are:

Direction	Description
0	Bottom to top
45	Bottom-left to top-right
90	Left to right
135	Top-left to bottom-right
180	Top to bottom
225	Top-right to bottom-left
270	Right to left
315	Bottom-right to top-left
Random	Random direction, one of the above

The tiles parameter specifies the number of subdivisions in the given direction. Tiles have no effect for dissolve mode.

If you select random for tiles number, the number of tiles will always be between 0 and 10, with lower numbers occurring much more often:

Tiles	Occurrence (%)
1	33,06
2	14,05
3	12,40
4	10,74
5	9,09
6	7,44
7	5,79
8	4,13
9	2,48
10	0,83

10 Logging to Content Sources

VideoPoster-M4 could write back log files containing information about the last content update or setup operation to the different content sources. For FTP pull these will go to a *log* directory in the path specified during FTP configuration (see Content Auto Update). If content update was triggered by USB pen drive insertion the log file will be in a directory named *log* contained in the drive's root. An update triggered by upload from ACC4 will result in a log file saved locally on the VideoPoster-M4 which can be retrieved by an ACC4 function (see ACC4 manual for more information).

11 Firmware Update

This chapter describes how to update the firmware of VideoPoster-M4.

Name of the firmware update file:

setup_VideoPoster-M4_Firmware_Update_vV.E.R.S.bin

“V.E.R.S” is a placeholder for the new firmware version number (e.g. “1.2.0.58835”)

It can be installed on the following board configurations:

Check the “VideoPoster-M4 Release Notes” for further details

It can be installed on the following firmware versions:

Check the “VideoPoster-M4 Release Notes” for further details

ATTENTION:

The power supply for VideoPoster-M4 must NOT be interrupted during the firmware installation because this can damage the product!

The VideoPoster-M4 restarts after the firmware installation automatically. This is normal behavior

Preparations before the firmware update:

- Download the firmware zip file “VideoPoster-M4_Firmware_Update_vV.E.R.S.zip” and save it on your computer
- Extract the contained firmware file and install this on your VideoPoster-M4 as described in the next section

The new firmware can be installed on VideoPoster-M4 by using one of the following methods:

11.1 Upload the new Firmware via Web Frontend

- Open the web frontend of VideoPoster-M4
- Select the menu "**Advanced**"
- Browse the firmware update file in the section "**Firmware Update**" and press the button "**Upload to VideoPoster-M4**"
- Wait up to 4 minutes and consider the messages in your browser until the installation has finished

11.2 Upload the new Firmware via USB Flash Drive

- Copy the firmware update file into the root directory of an empty USB flash drive
- Insert the USB flash drive into the USB port of your VideoPoster-M4
- Read the status messages on the display
- Wait up to 4 minutes until the installation has finished
- Verify if the installation was successful. To do so, insert the USB flash drive into a PC and open the log-file called "setup_VideoPoster-M4_Firmware_Update_vV.E.R.S.log". Check the messages in this log file. For a successful update the last line states:
"Update complete, current FW version is V.E.R.S"

11.3 Upload the new Firmware via ACC 4.x

- Open the Windows software ACC version 4.0 or above
- Select the tab "**Device Manager**"
- Select the device you want to update (must be added to the "**Device Manager**" before)
- Open the context menu of the device (right click on the device)
- Select the menu entry "**Upload Setup File to Device**"
- Browse the firmware update file
- Press the "**OK**" button in the appearing dialog to upload the file to the device
- Wait up to 4 minutes until the installation has finished with a "**Success**" message

11.4 Download the new Firmware from an FTP Server

- Configure the VideoPoster-M4 to poll playlists from a FTP server (this can be done in the web frontend in menu "**Content Auto Update**")
- Create the folders "**setup**" and "**log**" in the playlist directory on the FTP server
- Upload the firmware update file to the "**setup**" directory by using ACC 4 or a standard FTP client (e.g. FileZilla)
- When next polling interval of VideoPoster-M4 occurs, it downloads the firmware update file and installs it automatically
- The installation of the new firmware takes up to 4 minutes
- Verify if the installation was successful. To do so, open the log-file called "XX-XX-XX-setup_VideoPoster-M4_Firmware_Update_vV.E.R.S.log" in the log directory on the FTP server (XX-XX-XX is a placeholder for a unique prefix representing the last 3 digits of the MAC address of VideoPoster-M4). Check the messages in this log file. For a successful update it states:
"Successfully applied setup package!"

12 Supported Media Formats

The tables below describe which video and image formats are supported by VideoPoster-M4.

Supported video formats:

Supported Container Format	File Extension	Video Codec	Audio Codec (1)
MPEG Transport Stream	.m2ts	MPEG-4 AVC / H.264	AAC LC
	.ts	MPEG-4 AVC / H.264	AAC LC
MPEG-4	.mp4	MPEG-4 AVC / H.264	AAC LC
QuickTime	.mov	MPEG-4 AVC / H.264	AAC LC
Flash Video	.f4v	MPEG-4 AVC / H.264	AAC LC

(1) An audio stream in the file is not mandatory

Detailed description of supported video Codecs:

Video Codec	Parameter	Supported Values	Detailed Information
MPEG-4 AVC / H.264	Profile	up to High Profile	
	Level	up to Level 5.1	
	Video Resolution	up to 3840x2160	
	Bit Rate	up to 25 Mbps	Mbps: Mega bit per second
	Frame Rate	up to 60 fps	fps: frames per second
	Scan Mode	Progressive Scan	
	Aspect Ratio	16:9	

Detailed description of supported audio Codecs:

Audio Codec	Parameter	Supported Values	Detailed Information
AAC LC	Profile	Low Complexity	
	Sample Rate in kHz	48	up to 288 kbit/sec per channel
		44.1	up to 264 kbit/sec per channel
		32	up to 192 kbit/sec per channel
		24	up to 144 kbit/sec per channel
		22.05	up to 132.3 kbit/sec per channel
		16	up to 96 kbit/sec per channel
		12	up to 72 kbit/sec per channel
		11.025	up to 66.15 kbit/sec per channel
		8	up to 48 kbit/sec per channel
	Bit Rate in kbit/sec	up to 288	per channel
	Channels	Mono	
		Stereo	

Supported image formats:

Supported Image Format	File Extension	Parameter	Supported Values
Bitmap	.bmp	Resolution	up to 3840 x 2160
JPEG	.jpg		
Portable Network Graphics	.png		

13 Technical Specification

Hardware Requirement	Distec Monitor Series	BLO-Line A1
		High Bright
		POS-Line
		POS-WP-PRO
Operating System	Embedded Linux	Based on Debian 11 (Bullseye)
	Kernel	Version 6.1.21-v7l.71730.1
Player	VLC	Version 3.0.20
Display	Resolution	1024 x 768
		1280 x 800
		1280 x 1024
		1920 x 1080
		3840 x 2160
Network	Ethernet 10/100	1x
	Wi-Fi	Yes via USB Dongle
	2G GSM	Not supported
	3G UMTS	Not supported
	4G LTE	Not supported
USB	USB 2.0 Host	2x
	USB 3.0 Host	Not available
Audio	USB Speaker	Not supported
	Internal amplifier	To be defined
	Stereo Line Out	1x
HDMI	Input	1x Available for ArtistaMedia-IV-00 VBO variant
	Output	1x
Input Devices	Keyboard	Not supported
	Mouse	Not supported
	Light sensor	Yes
	Temperature sensor	Yes
	IR sensor	Yes
	Fan	Yes
	Touch Screen	Yes

14 Order Numbers

14.1 Fortec Monitor Series

The table below lists all available monitors with pre-installed VideoPoster-M4. For detailed information about the hardware and available options, please contact your sales contact person in the FORTEC Group.

Part #	Description	Display Size	Board type	Display Resolution
PA-45-012	BLO-Line 54.6 VideoPoster M4 NA	54.6"	ArtistaMedia-IV-00 VBO	3840x2160
PA-45-013	BLO-Line 54.6 VideoPoster M4 NA	54.6"	ArtistaMedia-IV-00 VBO	3840x2160
PA-45-016	ArtistaBox 54.6 WebPoster M4	NA	ArtistaMedia-IV-00 VBO	3840x2160
PA-45-019	Standard product 15.6 WebPoster M4 NA	15.6"	ArtistaMedia-IV-10 eDP	3840x2160

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