

Release Notes

VideoPoster-III

Industrial Full HD Media Player

PA-26-XXX

Version 1.16.2

14.07.2017

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1 Revision History

Date	Version	Description	Page
06.02.2012	1.0.0	Initial version for VideoPoster-III firmware version 1.0.0	All
02.05.2012	1.2.0	Updated for new VideoPoster-III firmware version 1.2.0	3
27.06.2012	1.4.0	Updated for new VideoPoster-III firmware version 1.4.0	4
12.07.2012	1.6.0	Updated for new VideoPoster-III firmware version 1.6.0	5
28.09.2012	1.8.0	Updated for new VideoPoster-III firmware version 1.8.0	5, 6
05.10.2012	1.8.1	Updated for new VideoPoster-III firmware version 1.8.1	6
24.10.2012	1.8.2	Updated for new VideoPoster-III firmware version 1.8.2	6, 7
21.11.2012	1.8.3	Updated for new VideoPoster-III firmware version 1.8.3	7
30.11.2012	1.10.0	Updated for new VideoPoster-III firmware version 1.10.0	7, 8
26.04.2013	1.12.0	Updated for new VideoPoster-III firmware version 1.12.0	8, 9
03.06.2013	1.14.0	Updated for new VideoPoster-III firmware version 1.14.0	9, 10
22.10.2013	1.16.0	Updated for new VideoPoster-III firmware version 1.16.0	10, 11
22.11.2013	1.16.1	Updated for new VideoPoster-III firmware version 1.16.1	13
15.01.2016	1.16.2	Updated for new VideoPoster-III firmware version 1.16.2	13,14
14.07.2017	1.16.2	- Updated document template (first and last page) - Added info about software license	1, 14, 15

2 Firmware Release History

This section lists all firmware releases for VideoPoster-III.

2.1 Firmware version: 1.0.0

Exact firmware version: 1.0.0.32863
Release date: 06.02.2012

This is the initial firmware release for the product VideoPoster-III. It has the same functionality as the product VideoPoster-II with firmware version 2.2.0.



2.2 Firmware version: 1.2.0

Exact firmware version: 1.2.0.34959
Release date: 02.05.2012

Name of firmware update file:

- setup_Firmware_VideoPoster-III_PA-26-XXX_v1.2.0_V1.bin

It can be installed on board configuration:

- PA-26-XXX VideoPoster-III

It can be installed on firmware versions:

- 1.0.0

New features:

- Updated the Artista Device Finder (ADF) client to the latest version which requires authentication before the network settings of the board can be changed by the user. At least version 1.2.0 of the Artista Device Finder (ADF) Windows software must be used
- Added support for the internal USB connector of the board (CON26). This can be used to connect the Artista-I/O board which features press buttons or a motion sensor to trigger playlists
- Added support to execute playlist trigger commands coming from Artista-I/O board
- VideoPoster-III can be used without SD card now. The internal flash memory (about 190 MB) is used to store the show in this case
- Added support for WMV (Windows Media Video) video format
- Added support for F4V (Flash Video) video format

Fixes:

- Fixed issue where some USB flash drives have not been detected properly by VideoPoster-III after they have been inserted for content update
- Fixed the issue where changing the order of entries in the playlist has not been detected by VideoPoster-III reliable
- Fixed issue where the display was off for the first video playback sometimes after power on

2.3 Firmware version: 1.4.0

Exact firmware version: 1.4.0.35961
Release date: 27.06.2012

Name of firmware update file:

- setup_Firmware_VideoPoster-III_PA-26-XXX_v1.4.0_V1.bin

It can be installed on board configuration:

- PA-26-XXX VideoPoster-III

It can be installed on firmware versions:

- 1.2.0

New features:

- After content update, VideoPoster-III stores a log file on the USB flash drive or FTP server to show the result (success or error) of the content update procedure. Further, ACC with



version 3.18 or above displays a status message for content push to VideoPoster-III as well

- During formatting of the SD card a status message is shown on the display
- The FTP server can have a sub-folder "PlaylistContent" for the playlist now. VideoPoster-III checks if there is such a folder and downloads the playlist from there in this case. If the sub-folder is not existing, it searches the playlist in the root directory of the FTP server for backwards compatibility

Fixes:

- Fixed the issue where the player stopped playback in rare cases. When this issue occurred, the display showed one static picture of a video in the playlist until VideoPoster-III has been restarted by the user
- Fixed the issue where some SD cards have not been detected reliably
- Increased the reliability of the hardware watchdog which is responsible to automatically restart VideoPoster-III if a fatal error occurs in the firmware
- Corrected the numbering of the inputs of the Artista-I/O board. In the previous firmware all inputs have been shifted by one (CON14 was not usable, CON13 had the function of CON14, etc.)
- Several improvements in the content update function. Now just one content update process is executed at one time (e.g. if VideoPoster-III downloads new content from a FTP server currently, content push per ACC is not possible at the same time)
- Improved startup of the player to make sure that the display brightness is set correctly for the first playlist entry

2.4 Firmware version: 1.6.0

Exact firmware version: 1.6.0.36352
Release date: 12.07.2012

Name of firmware update file:

- setup_Firmware_VideoPoster-III_PA-26-XXX_v1.6.0_V1.bin

It can be installed on board configuration:

- PA-26-XXX VideoPoster-III

It can be installed on firmware versions:

- 1.2.0 and above

New features:

- Extended the HttpCtrl interface of VideoPoster-III to upload content (images, videos and the playlist file) to the player.
HttpCtrl is a documented interface to control the VideoPoster-III and it allows the software integration of the media player into 3rd party content management systems
- During the system start of VideoPoster-III the file system of the SD card is verified automatically now

Fixes:

- Increased the reliability of the media player on VideoPoster-III
- Improved the watchdog which restarts VideoPoster-III if a fatal system error occurs
- Fixed the issue where a firmware update or configuration file stored on the FTP server has been downloaded and installed by VideoPoster-III every poll interval



2.5 Firmware version: 1.8.0

Exact firmware version: 1.8.0.37881
Release date: 28.09.2012

Name of firmware update file:

- setup_VideoPoster-III_Firmware_PA-26-XXX_v1.8.0_V1.bin

It can be installed on board configuration:

- PA-26-XXX VideoPoster-III

It can be installed on firmware versions:

- 1.2.0 and above

New features:

- Added support for VideoPoster-III monitoring. The device provides the functionality to monitor the current player status over network now. In local installations the status report can be requested by using the HttpCtrl interface. If VideoPoster-III is configured for "Content Auto Update" and monitoring is enabled, it automatically stores a report file in the log folder on the FTP server every 3 minutes. With a specific setup file on the pen drive it is possible to retrieve the current player status over USB as well
- Upgraded the HttpCtrl interface of VideoPoster-III to protocol version 1.2.0. This version supports a new call to request monitoring reports from the device

Fixes:

- Increased the reliability of the media player on VideoPoster-III
- Improved the internal watchdog which restarts VideoPoster-III if a fatal system error occurs
- During the system start of VideoPoster-III all internal file systems are verified automatically now
- Fixed the issue in HttpCtrl protocol version 1.0.0 where the return message in the reply of the method "getPlayerStatus" was in the tag <request> instead of <return>
- Fixed the issue where the last entries of long playlists have not been written to the player log file after system start sometimes
- Fixed the issue with VideoPoster-III firmware versions 1.4.0 and 1.6.0, where the update.log file did not contain the values for IP address and hostname of the corresponding VideoPoster-III
- Fixed the issue with VideoPoster-III firmware version 1.6.0, where in case of an invalid playlist on the device the display of VideoPoster-III was black instead of showing the splash screen with the error message "Failed to load playlist"



2.6 Firmware version: 1.8.1

Exact firmware version: 1.8.1.37957
Release date: 05.10.2012

Name of firmware update file:

- setup_VideoPoster-III_Firmware_PA-26-XXX_v1.8.1_V1.bin

It can be installed on board configuration:

- PA-26-XXX VideoPoster-III

It can be installed on firmware versions:

- 1.2.0 and above

Fixes:

- Fixed the issue with firmware version 1.8.0, where the "Content Auto Update" page of the VideoPoster-III web interface could not be used any more after it was submitted with empty fields

2.7 Firmware version: 1.8.2

Exact firmware version: 1.8.2.38264
Release date: 24.10.2012

Name of firmware update file:

- setup_VideoPoster-III_Firmware_PA-26-XXX_v1.8.2_V1.bin

It can be installed on board configuration:

- PA-26-XXX VideoPoster-III

It can be installed on firmware versions:

- 1.2.0 and above

Fixes:

- Internal error handling of the media player has been improved. With firmware version 1.8.0 and 1.8.1 VideoPoster-III did restart, when the playlist contained corrupt media files. Now the VideoPoster-III continues the playback of the playlist and just skips the faulty entries



2.8 Firmware version: 1.8.3

Exact firmware version: 1.8.3.38605
Release date: 21.11.2012

Name of firmware update file:

- setup_VideoPoster-III_Firmware_PA-26-XXX_v1.8.3_V1.bin

It can be installed on board configuration:

- PA-26-XXX VideoPoster-III

It can be installed on firmware versions:

- 1.2.0 and above

Fixes:

- Internal error handling of the media player has been improved. With firmware versions 1.8.0, 1.8.1 and 1.8.2, it could happen that VideoPoster-III has restarted due to an incorrectly detected error (an error was detected, even though everything was fine). This situation could occur when using large playlists with many events
- Fixed the issue with firmware version 1.8.0, 1.8.1 and 1.8.2 where it was not possible to update playlists containing large video files (larger than 500 MB) via USB flash drive



2.9 Firmware version: 1.10.0

Exact firmware version: 1.10.0.38837
Release date: 30.11.2012

Name of firmware update file:

- setup_VideoPoster-III_Firmware_PA-26-XXX_v1.10.0_V1.bin

It can be installed on board configuration:

- PA-26-XXX VideoPoster-III

It can be installed on firmware versions:

- 1.2.0 and above

New features:

- Added support for trigger events via RS-232 to switch between playlists. ACC 3.22 or above is required to create playlists with RS-232 triggers. The RS-232 interface ZU-02-370 must be connected via cable KA-30-101 to the connector CON31 on VideoPoster-III to use this feature. The serial interface must be configured to baud rate 19200, data format 8-N-1 (8 data bits, no parity bit, 1 stop bit) and no hardware handshake

Changes:

- For content and firmware updates via USB flash drive the current show is stopped and status messages are shown on the display now
- In all previous firmware versions of VideoPoster-III an already inserted USB flash drive has been checked for content or firmware updates after boot-up automatically. Now it is necessary to insert the USB flash drive after VideoPoster-III has been booted. Otherwise it will not recognize the USB flash drive

Fixes:

- Increased the reliability of the media player on VideoPoster-III
- Increased the reliability of the content updates from FTP servers via "Content Auto Update"
- The switching time between two videos with the use of trigger events has been reduced to less than one second
- The switching on and off of the "Content Auto Update" in the web interface now works without having to restart the VideoPoster-III
- The check for available disk space has been improved for content and firmware updates via USB flash drive or FTP server. Is enough space for the new and the old files, the old files are deleted after downloading the new files. In case of "Content Auto Update" the old playlist continues to play during the file download. Is only space for the new files, the player is immediately stopped and the old files are deleted before the new file download. If there is not enough space for the new files at all, the new playlist is refused and the old playlist continues to play
- Firmware updates that have been downloaded from an FTP server will now be deleted from the internal storage of VideoPoster-III after they have been installed (this has been the case for installation via USB flash drive, web interface or ACC already)
- It is now assured that the splash screen is displayed at startup of VideoPoster-III, even when the display was turned off explicitly by a playlist event before restarting the device
- The function "Media Storage Formatting" in the web interface has a message box now. This gives the user the opportunity to cancel or start the formatting process
- The support for SD cards larger than 4 GB has been improved



2.10 Firmware version: 1.12.0

Exact firmware version: 1.12.0.40748
Release date: 26.04.2013

Name of firmware update file:

- setup_VideoPoster-III_Firmware_PA-26-XXX_v1.12.0_V1.bin

It can be installed on board configuration:

- PA-26-XXX VideoPoster-III except PA-26-009

It can be installed on firmware versions:

- 1.2.0 and above

New features:

- Added support for the external HDMI input of VideoPoster-III. It can be prioritized over the internal media player. The behavior of the HDMI port can be configured in the "Advanced" menu of the web interface. If HDMI input priority is enabled there (default), 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 in the web interface, the external HDMI input signal is ignored.

Note: This feature still has beta state: If the external HDMI input signal is displayed, the internal media player continues to play the playlist and the monitoring function does not report that the external signal is shown on the display currently

- The baud rate of the RS-232 interface for playlist triggers can be configured in the "Advanced" menu of the web interface now. The following baud rates are selectable: 1200, 2400, 9600, 19200 (default), 57600, 115200

Changes:

- The device monitoring reports a "Warning" status instead of an "Error" status now, if the VideoPoster-III has no playlist
- Removed the "auto-refresh" functionality from the "Restart" page in the web interface since it caused problems with some browsers (e.g. Google Chrome). Now the user must refresh the page in the browser manually about one minute after the "Restart" button has been pressed in the web interface

Fixes:

- Increased the reliability of the media player on VideoPoster-III
- Fixed the issue where videos have not been displayed with the correct grey levels. A white video has been displayed as light grey and a black video has been displayed as dark grey on the screen. Now videos and still images are displayed with the same correct grey levels
- The firmware update has been improved (smaller package, quicker installation and status messages on the display)



2.11 Firmware version: 1.14.0

Exact firmware version: 1.14.0.41129
Release date: 03.06.2013

Name of firmware update file:

- setup_VideoPoster-III_Firmware_PA-26-XXX_v1.14.0_V1.bin

It can be installed on board configuration:

- PA-26-XXX VideoPoster-III except PA-26-009

It can be installed on firmware versions:

- 1.2.0 and above

New features:

- Added support for other resolutions than Full HD (1920x1080) to the media player. The following resolutions are available now: 800x600 (4:3), 1024x768 (4:3), 1280x800 (16:10), 1280x1024 (5:4), 1366x768 (16:9), 1680x1050 (16:10) and 1920x1080 (16:9)
Videos and images are displayed without scaling now, if the content matches the resolution of the display exactly. If not, the content is scaled by VideoPoster-III with the setting "keep aspect ratio – fit inside". This results in black bars on top and bottom or left and right of the content. ACC version 3.24.0 or above is required to create content in the correct format for this firmware

Changes:

- Due to the support of other display aspect ratios than 16:9 (see new features above), the behavior of content scaling has been changed for display resolutions which are not equal to 1366x768 or 1920x1080. With previous firmware versions it was necessary to scale all videos and images to Full HD with the setting "ignore aspect ratio" before they have been transmitted to VideoPoster-III. VideoPoster-III re-scaled the content to the display resolution with "ignore aspect ratio" again and thus the content appeared with correct aspect ratio on the display. With this new firmware it is necessary to transmit content with the correct aspect ratio (and the correct resolution for perfect image quality) to VideoPoster-III. That means, VideoPoster-III media players, which are using other display resolutions than 1366x768 and 1920x1080 might need a content update after the firmware update as well
- The Data Display Group logo has been removed from the splash screen. The splash screen is just white now

Fixes:

- Fixed the issue where videos with other resolutions than 1920x1080 have not been scaled to the display correctly. In previous firmware versions they have been shifted horizontally and vertically in some cases
- Fixed the issue where it was not possible to configure the "Content Auto Update" in the web interface to a FTP server, which is currently not reachable for VideoPoster-III. Now it saves the new settings with the hint, that the FTP server is currently not reachable
- The master reset in the web interface resets the display controller now. This restores the factory setting of the HDMI Input Priority
- When disabling the HDMI Input Priority in the web interface, the VideoPoster-III switches to the internal media player immediately now, even if the external HDMI source is still connected and active



2.12 Firmware version: 1.16.0

Exact firmware version: 1.16.0.42258
Release date: 22.10.2013

Name of firmware update file:

- setup_VideoPoster-III_Firmware_PA-26-XXX_v1.16.0_V1.bin

It can be installed on board configuration:

- PA-26-XXX VideoPoster-III except PA-26-009

It can be installed on firmware versions:

- 1.2.0 and above

New features:

- Added support for 4-button keypad
 - Functions: Power on/off display, set volume via hot-key, open OSD (on-screen-display) to adjust further display settings
 - Hardware: Connect keypad ZU-02-398 with cable KA-30-258 to connector CON29 of VideoPoster-III
- Added support for 6-button keypad
 - Functions: Power on/off display, set volume and mute via hot-keys, open OSD (on-screen-display) to adjust further display settings with 4-button control (**M**enu/**E**nter, **E**xit, **U**p/**R**ight and **D**own/**L**eft)
 - Hardware: Connect keypad ZU-02-378 with cable KA-30-258 to connector CON29 of VideoPoster-III
- Added support for I/R remote control
 - Functions: Power on/off display, freeze current image on the display, mute, set aspect ratio of input signal on display, set volume and open OSD (on-screen-display) to adjust further display settings
 - Hardware: Connect I/R receiver KA-30-094 (with 40 cm cable) or KA-30-183 (with 1 m cable) to connector CON25 of VideoPoster-III and use the I/R remote control RC-10-005
- Added support for temperature sensor
 - Function: Adjusts the display brightness automatically as a function of the temperature. If the measured temperature is higher than 46 °C, the display brightness is reduced automatically until the temperature is below 43 °C. Then the display brightness is set back to the original value
 - Hardware: Connect temperature sensor ZU-02-389 with cable KA-30-323 to connector CON24 of VideoPoster-III
- Added support for ALS (Ambient Light Sensor)
 - Function: Adjusts the display brightness automatically as a function of the ambient light
 - Hardware: Connect ALS ZU-02-371 with cable KA-30-185 to connector CON24 of VideoPoster-III or connect ALS ZU-02-371 with cable KA-30-324 to connector CON1 of temperature sensor ZU-02-389 and connect the temperature sensor with cable KA-30-323 to connector CON24 of VideoPoster-III
- Added the following display parameters to device monitoring: current display brightness, current input signal (internal media player or external HDMI input), current power status of the display and firmware version of the display controller

Fixes:

- Fixed the issue where using the external HDMI input of VideoPoster-III has not been displayed in the device monitoring properly. Now the currently used input is displayed in the device monitoring and the internal media player is switched off, if the external HDMI input of VideoPoster-III is used



- Improved the status message in the device monitoring, if the media player receives a content update or a trigger command. Now the status information for the media player is updated immediately
- Improved the status message in the device monitoring, if the media player failed to load the playlist. This case is displayed as "Warning" instead of "Ok" now
- Fixed the issue where the "System Information" page of the VideoPoster-III web interface has not been displayed correctly with Microsoft Internet Explorer 10
- Added a "Check again" button to the "Timeservers" menu on the "Date and Time" page of the VideoPoster-III web interface. This button appears and can be used to check if the system time of the board has been synchronized with the time server already right after the button "Use timeservers" has been pressed
- Updated USB driver

2.13 Firmware version: 1.16.1

Exact firmware version: 1.16.1.42917
Release date: 22.11.2013

Name of firmware update file:

- setup_VideoPoster-III_Firmware_PA-26-XXX_v1.16.1_V1.bin

It can be installed on board configuration:

- PA-26-XXX VideoPoster-III except PA-26-009

It can be installed on firmware versions:

- 1.2.0 and above

Fixes:

- Increased the reliability of the media player on VideoPoster-III. The update is recommended for applications where the media player is used in permanent operation (24/7 service)

2.14 Firmware version: 1.16.2

Exact firmware version: 1.16.2.50289
Release date: 15.01.2016

Name of firmware update file:

- setup_VideoPoster-III_Firmware_PA-26-XXX_v1.16.2_V1.bin

It can be installed on board configuration:

- PA-26-XXX VideoPoster-III except PA-26-009

It can be installed on firmware versions:

- 1.2.0 and above

Fixes:

- Fixed the issue where the configuration of "Content Auto Update" did not accept host names for the FTP server with firmware versions 1.16.0 and 1.16.1. It did accept IP addresses for the FTP server only



- Fixed the issue where the configuration of "Content Auto Update" did not handle FTP directory paths with spaces / blanks in the path correctly with firmware versions 1.16.0 and 1.16.1. If a path to the FTP server directory with blanks inside was used once, the configuration was not usable afterwards any more since the stored path was corrupted. A "Master Reset" of the VideoPoster-III was necessary to get "Content Auto Update" working again
- Fixed the issue where "Content Auto Update" was not configurable in the web interface of VideoPoster-III any more in some cases after a firmware update from earlier firmware versions to 1.16.0 or 1.16.1 has been done
- Fixed the issue where VideoPoster-III did not show an error message on the display, if the content update via USB flash drive was not successful because the disk space of VideoPoster-III was not sufficient for storing the new playlist on the device
- Fixed the issue where content update of a rotated video file did not work via ACC-Push. The issue occurred, if the video was available on VideoPoster-III already. If the video was rotated in ACC afterwards, VideoPoster-III ignored the newly rotated video file during content update via ACC-Push then
- Improved the compatibility of the web interface of VideoPoster-III with the Chromium browser under Linux
- Increased the reliability of the media player on VideoPoster-III. The update is recommended for applications where the media player is used in permanent operation (24/7 service)

3 Known Issues of latest Firmware Version

This section lists all known issues of the latest VideoPoster-III firmware version.

3.1 There are currently no known issues

4 License

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