stumpfl®

QUICK START GUIDE

fhd player P

Quick Start Guide - Purpose and Target Group

This quick start guide offers instructions for a quick set-up of the FDH Player. It contains information for people with a basic insight into Digital Signage solutions and network technology.

- Please read the entire quick guide very carefully.
- Please, read also the User Manual for save and proper usage.

Further information and the User Manual can be found at :
www.AVstumpfl.com/FHDplayer

Table of content

Product Specification

Article number: SCV-FHD

The FHD Player is a syncable media player for playback of all current video and audio formats. It supports full HD resolution, seamless loop operation and network integration. Additionally, it also features various external control options (e.g. via RS232/UDP) and data management via playlists.

Technical data

Video formats:	MPEG1, MPEG2, MPEG4, VOB, AVI, JPEG, VCD, DVD, MKV, WMV, DivX, MOV, H264, Program Stream, Elementary Stream, Transport Stream
Audio formats:	WAV, WMA, MP3, OGG, AAC, AC3
Bit rate:	max. 35 MBit/s
Frame rate:	max. 30 fps
Resolution:	max. 1920 x 1080 (full HD), max. 4096 P for JPEG
Storage media:	SD card, USB stick, USB hard disk
SD card file system:	NTFS, FAT32
Power supply:	8V to 35V DC wide range input, 12W with SD card, DC polarity -⊂●⊃+
Dimensions::	205 mm / 122 mm / 32 mm (L/W/H)
Weight:	680 g, metal case

Scope of delivery

- ✓ FHD Player
- ✓ 12V Mains adapter/1.25A
- ✓ SDHC Card 8 GB
- ✓ Quick Start Guide

Files on SDHC card on delivery

- ✓ Sample media files (01.mp4 / 02.mp4 / 03.mp4)
- ✓ Initialization file (FHDPlayerSetting.ini)
- ✓ Sample playlist (PLAYLIST.txt)
- ✓ User Manual (User Manual.pdf)

Ambient conditions and safety information

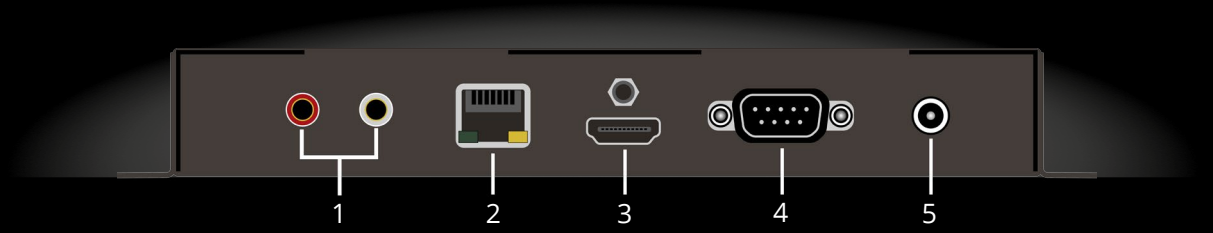
Description	Operating	Nonoperation
Temperature	-10 to +40 °C	-20 to +60 °C
Relative Humidity	10 to 80 % RH max. 27 °C wet bulb	max. 90 % RH max. 35 °C wet bulb
Altitude	max. 3 000 m	max. 12 000 m
Vibration	0,08 G (Z-Axis) 0,06 G (X- and Y-Axis) 5 to 500 Hz swept sine	0,30 G (Z-Axis) 0,15 G (X- and Y-Axis) 5 to 500 Hz swept sine

⚠ Do not mount several FHD Players immediately on top of each other. They may overheat.

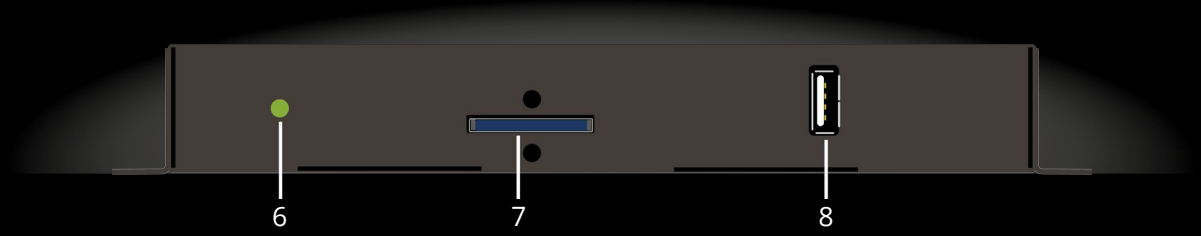
⚠ Avoid contact with liquids to prevent damage.

⚠ Stick to the connection values to ensure proper functioning.

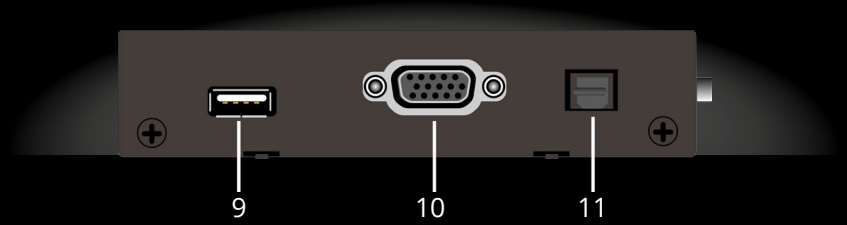
Ports and components



1	AUDIO	Cinch port for analog audio transfer
2	LAN	Port for network cable connection (data transfer rate 100 Base-T)
3	HDMI	Port for output devices for digital image and audio transfer (e.g. monitor, TV, projector)
4	RS232	Serial communication interface for control purposes
5	POWER	Mains adapter port, DC polarity - +



6	STATUS	Status indication (red = booting, green = ready)
7	SD Card	SD card slot
8	USB data	USB port for data carriers



9	USB peripheral	USB port for peripheral devices
10	VGA YPbPr	Port for analog image transmission
11	SPDIF optical	Port for digital audio transmission

Quick Start

- Unpack the FHD Player.
- Remove the SD card slot cover (7).
- Using the mains adapter connect the FHD Player to the mains supply.
- Via the HDMI port (3) connect an output device to the FHD Player.
- Save the required media file to the SD card.
- Plug the SD card into the corresponding FHD Player slot (7).

  ➔ **The media file is now played automatically.**

ⓘ The FHD Player is designed for 24/7 operation. If you want to stop playback disconnect the power supply or remove the SD card.

Initialization file

ⓘ The supplied SD card contains the initialization file *FHDPlayerSetting.ini*. This file includes the current FHD Player configuration and all adjustable options; it can be edited using any possible text editor.

After plugging the SD card into slot (7) the FHD Player automatically accepts the changed configuration.

When changes to the configuration are affected via the Web Interface a new initialization file is automatically saved to the SD card. The original SD card initialization file is automatically renamed to *FHDPlayerSetting.old*.

ⓘ If no data carrier is connected to the FHD Player the output device shows the current configuration.

Network connection

If you would like to use several FHD Players in a network you need to assign individual IP addresses to each FHD Player first. The IP address can be changed in the SD card initialization file.

The FHD Player is preconfigured for *[IP] 10.20.30.1*, *[Subnet] 255.0.0.0* and *[Gateway] 10.0.0.253*.

- Using a network cable connect the FHD Player to the network via the LAN port (2).

  → Connection with the network has now been established.

Connection via the Web Interface

The FHD Player must be integrated into the network.

- Determine the FHD Player IP address.

If no data carrier is connected to the FHD Player the output device shows the IP address.

- Enter the FHD Player's IP address (e.g. 10.20.30.1) into the web browser's address line.

  → The web interface main page is now displayed in the web browser.

Sync Mode

For Sync Mode all FHD Player media files must have the same playing time.

The media files must contain audio tracks.

The playlists of all FHD Players must be harmonized or deleted.

The FHD Players must be integrated into the network.

For every group to be synced only one master must be used.

- In the SD card initialization file change parameters [SYNCContol] to *On* and [SYNCType] to *Master* or *Slave*.
- Plug the SD cards into the FHD Players.

  → All slaves will now automatically follow the master.

Loop mode

Media files can be played in a loop with a seamless transition.

If the SD card does not contain a playlist the media files are sorted in an alphanumeric order.

- In the initialization file on the SC card change parameter [PLAYMode] to the desired option.

  Repeat All: All media files on the SD card are played in an endless loop.

  Repeat Default: The first media file on the SD card is played in an endless loop until some other media file was chosen via external control (e.g. 2-button GPIO mode). Following this the endless loop of the first media file starts again.

Repeat Selected: One media file selected via external control is played in an endless loop until a new media file is selected.

- Now plug the SD card into the FHD Player.

  ➔ The selected loop mode is now performed.

Selecting the output for an output device

- Connect an output device to the desired output.
- On the web interface select *Setup* > *Screen & Resolution*.
- You can choose between *HDMI* and *VGA*.
- Select the resolution matching your output device.
- Select the aspect ratio matching your output device.
- Click *Update FHD Player*.

If you enable *Auto-EDID* the FHD Player will automatically try to detect the resolution and the aspect ratio of the output device.

➔ The chosen output has now been enabled and is ready for playback of the media files.

RS232 control

The RS232 interface can be used for sending control commands to the FHD Player.

Preconditions for control via the RS232 interface:
Data transfer: 9600 Baud, asynchronous
Data bits: 8
Parity bit: None
Stop bit:1

- Via the RS232 interface connect the FHD Player to the control device (e.g. PC).
- In the web interface open *Setup* > *Device connection*.
- Select *Terminal* for control.
- Choose the corresponding baud rate.
- Click *Update FHD Player*.

➔ The commands can now be transferred via your individual control program.

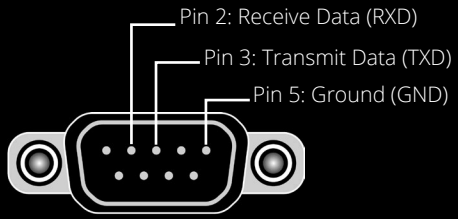


Fig.: Pinout RS232

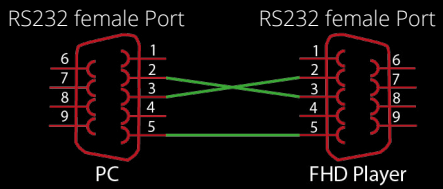


Fig.: Accessories STK-C012 null modem cable without handshake

UDP Control

You can send UDP commands via the network protocol in order to control the FHD Player.

- Set up the FHD Player correctly as part of your network.
- The FHD Player is preconfigured for UDP Port 4950. If this port is already in use assign a free UDP port in the initialization file.
- the FHD Player via its IP address in your individual control program.

  ➔ The commands can now be transferred.

RS232/UDP commands

PAUSE	Pause current playback
PLAY	Continue playback of a paused media file
NEXT	Jump to the next media file
PREV	Jump to the previous media file
VOLUP	Increase volume
VOLDOWN	Reduce volume
MUTE	Mute
UNMUTE	Unmute
PLAYINDEX=	Address media files in accordance with the playlist ITEM no or in an alphanumeric order.
PLAYFILE=	Media files are played according to the file names (exact expression)
OUTPUTOFF	Switch off connection to the output device (only possible via HDMI)
OUTPUTON	Activate standby mode of output device (only possible via HDMI)

Example:

PLAYINDEX=2 0x0D 0x0A

ASCII HEXA

➔ The FHD Player playbacks ITEM2 of the playlist or the second media file of alphanumeric order.

Every command must be terminated by Carriage Return and Line Feed (CR, LF or 0x0D, 0x0A, respectively)!

2-button GPIO mode

The FHD Player can be controlled via the RS232 interface and two buttons. Standard assignment: Pushbutton 1 for jumping one media file forward, Pushbutton 2 for jumping back one media file.

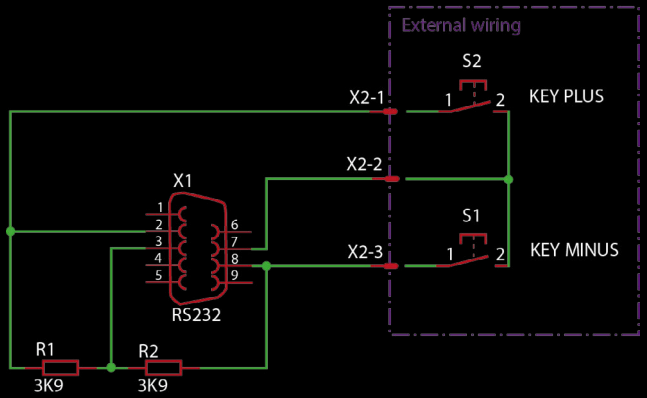


Fig.: Circuit diagram for two buttons at RS232

- Connect the buttons in accordance with the circuit diagram.
- In the web interface open *Setup* > *Device connection*.
- Select *Remote Control*.
- Click *Update FHD Player*.

➔ You can now use GPIO control via a playlist (see example on the following page).

Sample playlist for 2-button GPIO mode.

The standard key assignment must be disabled for every item via entry *KeyOff* in file *PLAYLIST.txt*.
The desired key must be assigned to every ITEM.

```
[ITEM 1]
File=01.mp4          (Media file 01.mp4 is assigned to ITEM 1)
Displaytime=-1       (-1 = still image with an unlimited playing time)
KeyOff
KeyPlus=2            (jumps to ITEM 2)
KeyMinus=3           (jumps to ITEM 3)

[ITEM 2]
File=02.mp4
Displaytime=-1
KeyOff
KeyPlus=+2.d         (jumps forward two ITEMS)
KeyMinus=-2.d        (jumps back two ITEMS)
```

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