



The World's First
Hyper Media Player

Overview

The HMP100™ is the unique alternative to proprietary, PC based solutions for digital signage. With the HMP100, SpinetiX® offers a new and simplified way to schedule, combine, update, stream and display content, whether it be audio, video, vector graphics, pictures, or text. The HMP100 allows for simple and cost effective implementations for applications as wide-ranging as advertising, transportation, hospitality, finance, and live events.

Small & Robust

The HMP100 stands out with its amazingly compact size. You can hide it nearly anywhere. The HMP100 is exceptionally robust and especially well suited for harsh environments thanks to the fanless design and the absence of any moving hardware parts.

Time Synchronized

All HMP100 devices on the network are time synchronized and work together seamlessly. Video walls of any size can be created and managed with ease.

Open

The digital signage solution of SpinetiX is based on open protocols and formats. As a result, with standard web based skills and freely available technologies, integration is straightforward and cost-effective.

Green

The power consumption of a HMP100 in action is only 2W. That's 50x less than a typical digital signage PC, which uses around 100W!

Serverless & Standalone

The HMP100's do not require a proprietary server. So with SpinetiX, you will never have to pay expensive recurring license fees.

Standard Benefits

- Horizontal and vertical digital displays
- Video walls
- Interactive displays
- Hyper-Media-enabled: on-the-fly content generation
- Open platform for integration
- Configurable pull mode (to avoid network security constraints)
- Comprehensive scheduling options
- HDMI and VGA connectors
- Internal storage
- Various extension possibilities (USB for flash drives, hard disks, external devices)
- RS232 interface for monitor control and status retrieval
- Ethernet network connectivity
- Digital & analog audio
- Very low power consumption
- Suitable for tough environments
- Cost effective, without expensive recurring license fees

Specifications

Digital Display Compatibility

Aspect ratio	16:9, 16:10, 4:3 (horizontal & vertical)
Video output	50/60 Hz: 720p (1280x720), XGA (1024x768), WSVGA (1024x640), WVGA (768x480), 576p (720x576), 480p (720x480), SVGA (800x600), VGA (640x480), EDID 24/25 Hz: 1080p (1920x1080; only for semistatic content)
Video connectors	HDMI (incl. digital audio), DVI via adapter. VGA (DB15 HD connector). Simultaneous use of HDMI and VGA possible

Media Format

Description language	SVG Tiny 1.2+ (Scalable Vector Graphics)
Media synchronization	SMIL 2.1 (Synchronized Multimedia Integration Language)
Still image formats	JPEG, PNG, GIF, SVG
Supported video codecs	Up to SD resolution: MPEG-4 ASP, MPEG-2, MPEG-1, H.264, MJPEG, Microsoft VC-1 (Windows Media Video 9)
Supported audio codecs	MPEG audio layer 1/2/3 (MP3), ITU G.711, G.722, G.729, PCM, Microsoft WMA, Real Audio
Media container formats	AVI, WMV/WMA, VOB, AIFF, OGG, WAV
Streaming media protocol	MMS, RTSP, RTP, SDP, HTTP; Uni- & multicast
Import filters provided for	Flash 9, Microsoft PowerPoint presentations, BMP, TIFF, XPM, WBMP, PNM bitmaps
Scripting language	PHP5, JavaScript, ECMAScript
Content scheduling	iCalendar (RFC2445)

Graphic Effects Engine

Graphic effects language	SVG Tiny 1.2+
Vector graphics primitives	Rectangles, polygons, paths with lines, elliptical arcs and Bezier curves, text areas, linear and radial gradients
International text support	Unicode standard compliant with bidirectional text support
Font file formats	TrueType and OpenType
Animation capabilities	Color, gradients, transparency level, audio volume, motion along a path, translation, scaling, rotation, clipping
Animation modes	Discrete, linear, paced and spline interpolation

Specialized Applications

Kiosk applications	Touch screen, keyboard and mouse via USB 2.0 or user defined serial port, with touch screen calibration
Event management	Trigger management among HMP100 devices for point-of-sales integration
Time synchronized	Millisecond accuracy, for unconstrained video wall configurations
Streaming	Video and audio streaming compatibility, including live TV streamers

Network

Connectivity	Ethernet 10/100 Mbit/s (RJ-45), IEEE 802.3u, 802.3x
Protocols	IPv4, DHCP or fixed address
Remote configuration	HTTP(S) configuration server, password protected
Content administration	WebDAV server, password protected
Other protocols	SNMPv1/v2c, NTP
Content updates	Pull mode, push mode, server based

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www.spinetix.com/store
info@spinetix.com



Rue des Terreaux 17
CH-1003 Lausanne, Switzerland

T +41 21 341 15 50
F +41 21 311 19 56

Storage

Internal storage	2GB solid state
External storage	Flash drives and hard disks via USB 2.0 port

Physical Specification

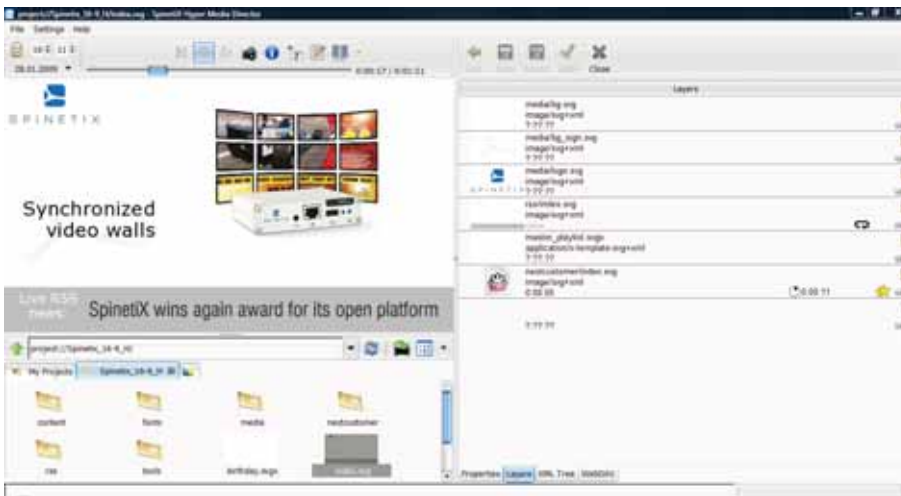
Size	105(W) x 26(H) x 83(D) mm 4.13'(W) x 1.02'(H) x 3.27'(D)
Weight	190g / 6.7 oz
Power supply	5V DC, typ. 0.4A (2W)
Power supply input	100-240V 50-60 Hz, max input current 0.6A
Operating temperature	0°C to 40°C / 32°F to 104°F; 10% to 90% RH
Storage temperature	-25°C to 45°C / -13°F to 113°F; 10% to 90% RH
Real time clock	Min. accuracy 1 minute/month free running, battery backed
Serial	RS232, up to 115200 bauds, mini-jack 3.5mm
Analog audio output	Line level, stereo, mini-jack 3.5mm

Warranty

Coverage	Life-time (For "General Terms and Conditions", visit our web site)
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Front & Rear View





Hyper Media Director software application

Overview

The Hyper Media Director™ (HMD) is a powerful software application for Windows OS which allows to quickly create projects for digital signage and kiosk applications based on the HMP100™ devices from SpinetiX®.

The HMD allows to create all type of digital signage: static and interactive projects, for video-walls, etc. And any kind of multi- and hyper-media can be added and positioned very easily: text, pictures, videos, live- and rss-feeds, PowerPoint slide shows etc.

After the creation of the project, an automatic detection of devices on the network can be done in order to publish to the various devices or group of devices. Advanced and customized scheduling options are available within the HMD too.

Trial, standard and professional license

Beside the 30 days trial version - which can be downloaded for free from our web site - the HMD application offers 2 different licensing schemes: the standard license allows to use all kind of advanced features for up to 10 HMP100 devices. The professional license offers support for an unlimited number of HMP100 devices and adds pull-mode and server capabilities. Each version suits for presentations, demos, small projects and for quick changes in your digital signage project.

Explore, edit, preview & publish

The HMD software is an all-in-one application: exploring your library, editing of items and previewing the project. Everything is being done with this one single application. Once finished with the project you can directly publish it to the HMP100 or to a group of HMP100 devices.

Open standards and independence of software

Because of the openness of the SpinetiX platform, integrators and computer experts have the flexibility to use their own software for the creation of projects and for publishing to the HMP100 devices. The only condition is the ability to generate SVG compliant files.

Standard Benefits

- 'Try before you buy':
Free HMD trial version available from extranet
- Included: Many great templates to get you started quickly
- Hyper-Media-enabled:
On-the-fly content generation with scripts
- Creation of video wall projects and kiosk applications
- All-in-one application:
Explore, authoring, preview, scheduling, publishing, etc.
- Cost effective:
No expensive recurring license fees
- Monitoring:
HMD can automatically scan the network for HMP100 devices
- Multi language
- Template capability
- No dependency:
HMD is not mandatory: use your own software to manage your HMP100 devices

Specifications

Authoring Hyper Media

Hyper Media Director authoring features are provided graphically and thus are very easy to learn. Hyper Media Director and all the HMP100 devices natively support the SVG standard from W3C as native content description language. The choice of this technology allows the user to start from an empty SVG canvas or a previously designed graphical template and with simple drag and drop operations insert any type of images and video formats, animations, texts and graphics.

The interface lets the user to freely position on the canvas all the imported media elements making the authoring of professional content a very simple task. Advanced users can go even further by directly editing the SVG tree and integrating php or javascripts language to automatically update the content from an rss feed, a database, an internet server, etc. Professional graphic designers can continue using the preferred authoring software to create art pieces and build a collection of icons, slides, graphics, animations, images, videos etc... Hyper Media Director will simplify the combination of all these media onto the final canvas and presentation.

Previewing Hyper Media

Hyper Media Director integrates a real-time hyper media rendering engine featuring support for the SVG tiny 1.2 standard, SMIL and most video and image formats. The multimedia content can be interactively previewed to validate each authoring change before its publication.

Scheduling Hyper Media

Hyper Media Director offers an intuitive and powerful interface to schedule the time when a content shall be played by the target HMP100 device. Content can be scheduled at an exact time, or with specific periodicity. Support for multiple time zones is natively integrated so that you can schedule content across the world. Conflicts of simultaneous scheduling of projects can be resolved with the attribution of priorities.

Publishing Hyper Media

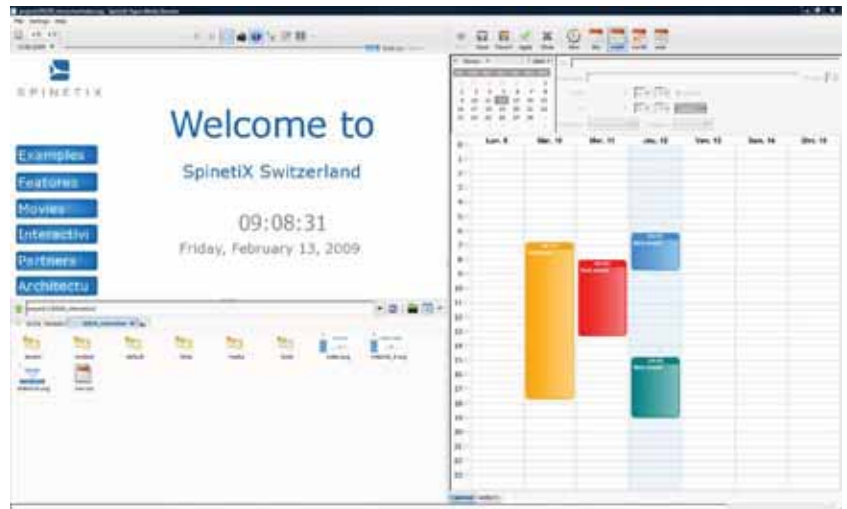
Hyper Media Director simplifies the publishing of media content on specific HMP100 device or group of devices. You can decide which content will be displayed and when it will be displayed. HMD allows for creation and publishing of multi-screen contents and of interactive contents.

Monitoring Hyper Media Players

Hyper Media Director simplifies the remote management of large network of HMP100 devices. You can automatically scan for devices installed on your network, monitor their individual status and configure their behaviors.

Software Details

Hyper Media Director is a software application which runs on Windows 2000, XP and Vista. General Requirements are: Support of DirectX 9.0c and SSE2 instructions. The HMD Standard License is a single node and multi user license for up to 10 HMP100 devices and is designed for small projects. The HMD Professional License is a single node and multi user license for an unlimited number of HMP100 devices, including pull-mode and server capabilities, especially designed for large projects.



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www.spinetix.com/store
info@spinetix.com



Rue des Terreaux 17
CH-1003 Lausanne, Switzerland

T +41 21 341 15 50
F +41 21 311 19 56



SpinetiX Key Benefits

About benefits and real value creation with the SpinetiX digital signage platform

This document gives an overview of the SpinetiX platform, its key benefits and the value proposition. Part of the SpinetiX platform is the HMP100 device (Hyper Media Player), the HMD (Hyper Media Director) application, licenses and training offerings.

Environmental

- Small & light
 - the HMP100 weights only 190 grams - the size of 2 iPhones
 - it can be fixed easily and everywhere, directly behind the screen
- Robust
 - no moving mechanical parts: no hard disk and no fans
 - no maintenance needed
 - no dust gets into the unit
 - no need of specific air-conditioned rooms
 - suitable for tough environments where others will compromise on performance
- No windows OS
 - the HMP100 is a specifically designed appliance for digital signage and kiosk applications
 - no virus and no crashes with the SpinetiX platform
- Silent: solid state technology for storage and without fans for absolute silence
- Green
 - low power consumption: 2 watts only ... 50 times less than a PC
 - low logistics and recycling costs
- Dedicated: HMP is - unlike PC's - designed to fit Digital Signage needs: display mission critical content

Features & architecture

- Independence: each screen is independent and can show content independently (Different content per screen)
- Internal storage: 2GB internal storage available
- Native support of shared network folders for centralized storage
- Offline content update (without LAN connection) is possible with USB key
- Maximum flexibility: 2 online content update mechanisms:
 - PUSH mode - suitable in simpler architectures:
the content is published to specific HMP100 units from the HMD software installed on any PC. No need of server. Also possible from WebDAV clients.
 - PULL mode - suitable for larger architectures:
the content is autonomously and automatically retrieved by the HMP100 units from a WebDAV or web server. Preferred mode when different users contribute to the content collaboratively and when network security prevents to access the HMP100 units from outside the LAN. Firewall-proved. NAT-proved.
- Cost effective: reduce the cost per video port by half, when displaying the same content simultaneously on 2 screens (VGA & HDMI) without the need of a video splitter.
- Video walls: natively supports scalable video wall applications: all HMP100 units on the LAN are precisely time synchronized with available standard NTP (Network Time Protocol) servers. This enables the creation of synchronized content (example: a cat jumping from one screen to the other) and the setup of video wall applications of any size and any configuration.

- Serial connection: bi-directional RS232 IP transparent tunnel with a seamless translation file that can be created and adapted with a software tool provided by SpinetiX:
 - Connect to the screen with ability to control (switch ON/OFF, volume) the screen
 - Connect to third party systems (PA, GPS, Remote Controls, etc.)
- Kiosk applications: USB connection for touch screen applications. Compatibility with any kind of touch screen.
- Event management: alarms (I/O, IP alarms, external output) can create automatic scenarios
- Latest features: instant messaging. Ability to display real-time information (ability to “chat” with a screen)
- Monitor HMP100 with standard LAN monitoring tools: SNMP browsing tool i.e. HPOpenview for instance

Content & software

- Powerful HMD software available and intuitive
- Fully featured: scene creation, playlist creation, scheduling with calendars.
- HMD can suit simple project if content template are created beforehand. Create your first project in 2 hours.
- HMD can fit more complex content needs as well.
- Any type of IP content: still images, video, movies, RSS feeds, live cameras, CCTV cameras, TV streamers.
- SVG is used as a 2D graphic standard language
- SVG is a scalable 2D visual language. No loss of aspect ratio. No loss of visual quality. No fix zone: you can place your objects at any place on the area.
- Unlimited number of layers
- SVG is the defacto standard for Digital Signage. It is used by Nokia or by Apple on iPhones. Tag for accounting any part of the content, any media element displayed by each HMP100 unit and push a reporting document automatically to a server.
- PHP and JavaScript can run on HMP100
 - Easily create touch panel menus
 - Easily parse any external IP data stream (RSS, weather information, financial updates, internal corporate news, etc.)

High-value

- Use your own content software and push your content directly to the HMP100 units without the need of using HMD
- Create your own and customized content GUI
- SpinetiX solution uses more than 23 standard technologies: SG, XML, Ethernet, iCalendar, etc.
- Seamless integration of HMP100 into more complex architecture
- Low power consumption: 2 watts only ... Accelerate ROI for end-users
- Integrate with calendar systems via the iCalendar standard protocol
- Regular training sessions offered at our digital signage academy: unleash your creativity
- No need to buy recurrent annual fees/licenses
- Life-time warranty
- Transparent and simple price list: single software and hardware package