



Datasheet

Valid from Version 2019.1

The smartPerform Pro standard software combines in a single executable application the functions for the creation, maintenance and operation of graphical user interfaces for all presentation and collaboration environments. smartPerform Pro combines the benefits of a sustainable standard solution with a large selection of design possibilities and flexible functionalities hitherto only achievable with individual solutions. Especially the flexible functions make the difference – they simplify the operation and the professional service for solutions of this type extremely. Without programming knowledge, specialist companies and agencies create customized interfaces for individual projects or product solutions with the integrated content management mode. smartPerform Pro also allows operators and users to modify or maintain content in the simplest way.

DESIGNER EDITION

A vertical badge with a yellow background and a blue diagonal stripe. It features the butterfly logo at the top and the text "DESIGNER EDITION" in white, bold, sans-serif font.

PLAYER LICENSE

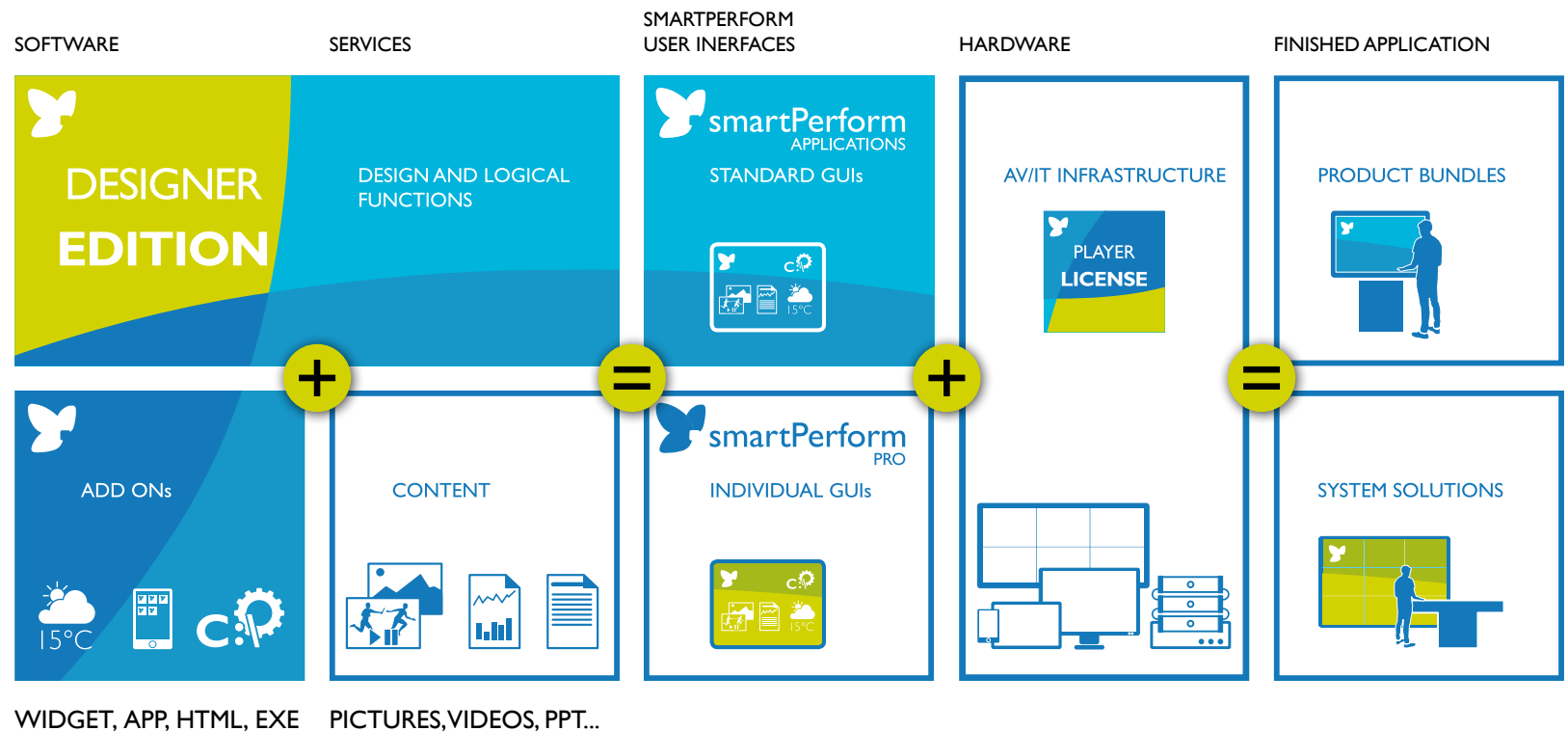
A vertical badge with a blue background and a yellow diagonal stripe. It features the butterfly logo at the top and the text "PLAYER LICENSE" in white, bold, sans-serif font.



System Architecture

smartPerform Pro – The Focus of Your Interactive Application

Interactive screens are available as an intuitive interface for the presentation of products and services, as a platform for work and creative functions or for the operation of complex technical processes, from the tablet to the personal powerwalls. Depending on the application and requirements, our smartPerform Pro partners offer different product bundles or system solutions, such as multi-touch tables, interactive wall displays, powerwalls, steles, speaker consoles, tablet or laptop solutions. The individual components can be compiled and optimized for the particular application to match the performance requirements and budget. We would be pleased to advise you on the selection of suitable components for smartPerform Pro.



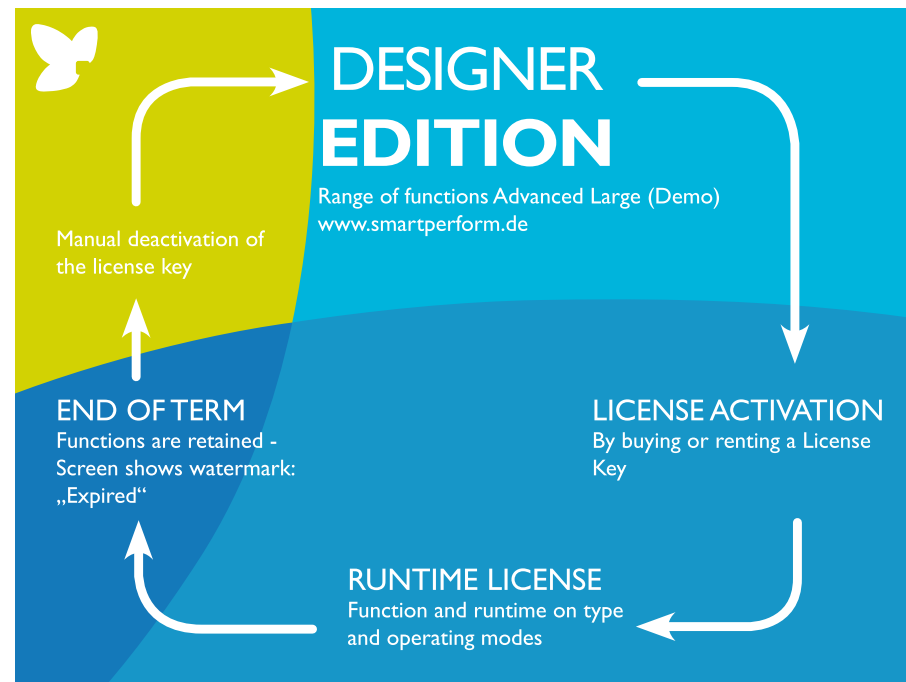


Overview License Model

Creative Tools and Operating Licenses

The smartPerform Pro standard software combines in a single executable file all the functions for the creation, maintenance and operation of graphical user interfaces for all presentation and collaboration environments. The creation and maintenance of an individual user interface with smart functions (smartPerform Pro project) is done in the simplest way in smartPerform Pro content management mode. This creative tool is included in the work environment Designer Edition and in the Operating Licenses. Operating Licenses are required for the protected kiosk operation of a smartPerform Pro project. Different license and activation types define function scope, runtime and handling. Without a license, the functionality of the software corresponds to the Designer Edition Advanced (demo license).

License Cycle





Function Overview

Light, Advanced and Ultimate in Comparison

Functions	Runtime Licenses						Creative Tool			
	Interactive Player			ShowPlayer			Designer Edition			
	Light	Advanced	Ultimate	Light	Advanced	Ultimate	Advanced (Demo)	Ultimate	Ultimate Deploy	Ultimate Deploy User
Content Management										
Content Management Mode	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Presentation Mode	✓	✓	✓	✓	✓	✓	—	—	—	—
Kiosk Mode	✓	✓	✓	✓	✓	✓	—	—	—	—
Distribution and Update of Projects	—	—	—	—	—	—	—	—	1 User	Additional User
Import of popular media formats¹⁾										
Images: PNG, BMP, TIFF, TIF, GIF, JPG, EXIF	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Video: WMV, AVI, MPG, MPEG, MOV, FLV, MP4 (Codec needed)	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Office: Word, Excel, PowerPoint ²⁾	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
More: PDF, HTM, HTML, URL, RTF, XPS	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Active Directory Login										
Login/Access to Cloud Storage ³⁾	—	Option Network	✓	—	Option Network	✓	—	✓	✓	✓
	—	Option Network	✓	—	Option Network	Offline Sync	—	✓	✓	✓
Display / networking with external AV sources (wireless / cable)										
via HDMI, DVI, Display Port, Barco Clickshare etc. (Video Input required)	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
via BYOD mobile App/Web Browser (WAN/LAN/WLAN required)	—	Option BYOD	✓	—	Option BYOD	✓	—	✓	✓	✓
via AirServer (requires AirServer installation and licensing, LAN / WLAN)	—	✓	✓	—	✓	✓	✓	✓	✓	✓
Networked Collaboration (requires VNC installation, WAN(VPN)/LAN/WLAN)	—	✓	✓	—	✓	✓	✓	✓	✓	✓
Streaming UDP, RTP (both Uni-, Multicast), RTSP, HTTP (Codec required)	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Applications¹⁾										
.EXE, .LNK, .APP	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Widgets (Wetter (API-Key needed), Traffic, Clock, Memory ...)										
Widget SDK	—	—	—	—	—	—	—	—	—	—
Automatic Content Maintenance										
Synchronized Files/Directories	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Logic Controls for Synchronized Files/Directories	—	✓	✓	—	✓	✓	✓	✓	✓	✓
Display XML Data (PIM, ERP, CRM...)	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Manipulation XML Data (PIM, ERP, CRM...)	—	Option Data	✓	—	Option Data	✓	—	✓	✓	✓
Display of room booking data (Reading Exchange v2019.2 read only)	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

- 1) The support of file types and their applications is subject to technical feasibility. This depends on available, open formats and interfaces of the respective manufacturer.
- 2) Office requires editing formats and transition effects in PowerPoint
- 3) OneDrive, GoogleDrive, SharePoint, SharpCloud, others on request



Functions	Runtime Licenses						Creative Tool			
	Interactive Player			ShowPlayer			Designer Edition			
	Light	Advanced	Ultimate	Light	Advanced	Ultimate	Advanced (Demo)	Ultimate	Ultimate Deploy	Ultimate Deploy User
Content Inspektor	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Statistics	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Log File with Messages for System Maintenance	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Number of Documents	max. 100	no limit	no limit	max. 100	no limit	no limit	no limit	no limit	no limit	no limit
Standard Functions										
Multi-Touch / Multi-User	✓	✓	✓	—	—	—	✓	✓	✓	✓
Single Desktop on the Main Screen	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Screen Resolutions <= 4K	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Screen Resolutions > 4K	Large	Large	Large	Large	Large	Large	✓	✓	✓	✓
Limitation of Screen Resolutions <= 17"	Small	Small	Small	Small	Small	Small	nein	nein	nein	nein
User Interfaces (Logic Control)	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Rights Management	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Presentation Functions										
Design Styles & Templates	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Zoom & Rotate	✓	✓	✓	—	—	—	✓	✓	✓	✓
Turn & Wipe	✓	✓	✓	—	—	—	✓	✓	✓	✓
Multi-/Single-Window	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Fullscreen Modus	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Content Link Modus	✓	✓	✓	—	—	—	✓	✓	✓	✓
Screen Saver	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Media Control	✓	✓	✓	—	—	—	✓	✓	✓	✓
Playlists	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Playlist Functions										
Automatic Playback of Content	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Main-Playlists / Sub-Playlists	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Auto Playlists from File Directories	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Adjustable Display and Times for Sub-Playlists and Content	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Transition Effects (fade, displacement, cubes, etc.)	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Collaboration Functions										
Whiteboard/Annotation	✓	✓	✓	—	—	—	✓	✓	✓	✓
Databasket	✓	✓	✓	—	—	—	✓	✓	✓	✓
Save or Distribute by Email, BYOD (requires BYOD)	✓	✓	✓	—	—	—	✓	✓	✓	✓

Functions

Functions	Runtime Licenses						Creative Tool			
	Interactive Player			ShowPlayer			Designer Edition			
	Light	Advanced	Ultimate	Light	Advanced	Ultimate	Advanced (Demo)	Ultimate	Ultimate Deploy	Ultimate Deploy User
Logik Designer Advanced										
Extended Presentation Functions										
Switching Playlists and Layouts	—	✓	✓	—	✓	✓	✓	✓	✓	✓
Control Language Selection	—	✓	✓	—	✓	✓	✓	✓	✓	✓
Presentation Control	—	✓	✓	—	✓	✓	✓	✓	✓	✓
Presets	—	✓	✓	—	✓	✓	✓	✓	✓	✓
Logic Controls for Synchronized Files/Directories	—	✓	✓	—	✓	✓	✓	✓	✓	✓
Further as Required	—	✓	✓	—	✓	✓	✓	✓	✓	✓
Extended Collaboration Functions										
Use Local Directories	—	✓	✓	—	✓	✓	✓	✓	✓	✓
Control of External Video Conferencing Software	—	✓	✓	—	—	—	✓	✓	✓	✓
Mind-Mapping	—	✓	✓	—	—	—	✓	✓	✓	✓
Further as Required	—	✓	✓	—	✓	✓	✓	✓	✓	✓
Logik Designer Ultimate										
BYOD										
Collaboration with iOS / Android Devices via Mobile App (WAN/LAN/WLAN)	—	Option BYOD	✓	—	Option BYOD	✓	—	✓	✓	✓
Collaboration with Web Browser via Mobile Web Service (WAN/LAN/WLAN)	—	Option BYOD	✓	—	Option BYOD	✓	—	✓	✓	✓
Multi Display										
Extended Window Positioning	—		✓	—		✓	—	✓	✓	✓
Remote Show	—	Option Multi Display	✓	—	Option Multi Display	✓	—	✓	✓	✓
Media Shelf (v.2019.2)	—		✓	—		✓	—	✓	✓	✓
I/O (Device)										
RS232 control, RFID (Further as Required)	—	Option I/O	✓	—	Option I/O	✓	—	✓	✓	✓
Object Recognition ¹⁾	—	Option I/O	✓	—	—	—	—	✓	✓	✓
Network										
IP Control	—	Option Network	✓	—	Option Network	✓	—	✓	✓	✓
Network Connectivity	—	Option Network	✓	—	—	—	—	✓	✓	✓
Active Directory Registration	—	Option Network	✓	—	—	—	—	✓	✓	✓
Login/Access to Cloud Storage ²⁾	—	Option Network	✓	—	—	—	—	✓	✓	✓
Data										
Manipulation XML Data (PIM, ERP, CRM...)	—	Option Data	✓	—	Option Data	✓	—	✓	✓	✓

1) requires TUIO protocol, Object Detection Software, Marker Objects
 2) OneDrive, Google Drive, SharePoint, SharpCloud, others on request



Tips for Using Web Browsers

Chromium-R, Chromium and Internet Explorer II in Comparison

Web Browser Version	Chromium-R	Chromium	Internet Explorer II
Description	Chromium-R is a rotatable, smartPerform integrated web browser based on Google Chrome.	Chromium-R is a smartPerform integrated web browser based on Google Chrome.	Internet Explorer II is a standard Windows web browser
Functions			
Rotatable Website (Touch Table)	yes	no	no
Plays MP3, MP4	no	no	yes
Plugin Integration	no, individual plugins may be supported (test required)	yes (Google Chrome must be installed)	yes (requires Internet Explorer II installation)
Zoomable Content via Touch within Website	no	yes	yes
Recommended Use Case	application for multi-touch table	best practice is to use smartDesk skin only in full screen mode	best practice is to use smartDesk skin only in full screen mode



Licenses and Operation

Different usage variations are possible for operation in any network or for operation in the domain of the end user. Depending on this, different license and financing models are available.

Pay Per Day Use

Pay per day use for the rental business with 1-X rental days. A Pro Support Agreement with software maintenance, 3rd, 2nd level support and user support is included. Other services optional.

Software as a Service

Long-term rental model for rental business and end customers with a contract term of >= 1 year and 6 weeks notice period at quarter end in use for any number of accounts. A Pro Support Agreement with software maintenance, 3rd, 2nd level support and user support is included. Other services optional.

Purchase

Purchase model for the reseller and end customer. Acquisition of licenses for an end user. The operation of the licenses takes place in the network of the end user. Various support agreements and software maintenance are available as options.

Purchase with Rental Option

Purchase model for rental business. Acquisition of licenses for rental. The purchase requires a Pro Support Agreement with software maintenance, 3rd, 2nd level support, and user support for at least 1 year. The warranty is limited to the term of the Pro Support Agreement.

Selection Criteria	Pay Per Day Use	Software as a Service	Purchase with Rental Option	Purchase
Licensee End User	yes	yes	no	yes
Licensee Rental Partner	yes	yes	yes	no
Operation in IT Environment of the End User	yes	yes	yes	yes
Operation in any IT Environment	yes	yes	yes	no

We are pleased to assist you in the selection.



License Activation

License Key, Dongel and Co.

To activate the desired range of functions for operation, the installed one requires smartPerform Pro software a license key. Different variants are possible depending on the purpose of use, the operating environment and the applications.

Versions

Activation	License Key	License File	Dongle ²⁾ + License File
Application	preferred variant with internet connection	optional version without internet connection	optional version without internet connection
Usage			
Pay Per Day Use	with start / end date	license file with start / end date	no
Software as a Service Per Month	with start / end date	license file with start / end date	license file with start / end date
Purchase with Rental Option	limitation on updates / upgrades depending on service agreements		
Purchase	limitation for updates/upgrades depending on service agreements		
Selection Criteria			
Computer Pool Larger than Number of Licenses	yes ¹⁾	no	yes
Connection to the Internet	yes	no	no
Hardware ID of the Computer	automatic transmission	manual transmission	not required
Update & Upgrade	automatic check	requires updated license file	requires updated license file

1) Adjustable, automatic deactivation after X days.
2) New purchase when the Dongle is lost.
Please always specify the desired activation type when placing your order.



Hardware Requirements

To operate the Designer Edition and the operating licenses, smartPerform Pro requires computers with a Windows operating system. Depending on the use and application, there are different requirements regarding the configuration, such as computing power (processor/ graphic board) or structural design (OPS, box, tower, 19" housing). For the selection of the graphic boards, the resolution and bit rate of the film material and the quantity of simultaneously presented content are also relevant. In the following, we will describe structural designs and computer configurations for typical application scenarios. Is your application not included in the descriptions? We will gladly advise you in selecting the right device classes for your smartPerform Pro application.

Computer

Structural Design	OPS / OPS+ PC	Mini PC / NUC PC	Small Form factor / Tower / 19" Housing
Description	OPS PC are integrated directly into a slot in the screen. Computer and graphic board performance are frequently not comparable with the usual standards. However, if the ratio of performance to system requirements is right, you will find a compact solution here.	Mini PCs offer great performance in a very small area and are perfectly suitable for many smartPerform Pro applications. Thanks to the corresponding VESA supports, installation behind a screen is quite simple.	These housing shapes enable the installation of one or multiple dedicate graphic boards and integrated video input cards. These structural forms consequently offer highest flexibility and expandability of the system.
Noise Level (Fan Noise)	mostly high	mostly high	mostly low
CPU, Graphic Boards, other Equipment	onboard, not expandable	onboard, not expandable	equipment selectable as needed
Services	A comparison with the recommended configuration for operating smartPerform Pro is required due to different needs. For these structural forms, this applies especially for the operation of => 4K screens.		A comparison with the recommended configuration for operating smartPerform Pro is required due to different needs.
External Video Input	not integrated, only possible via external USB video input devices	not integrated, only possible via external USB video input devices	video input cards which can be integrated
Switch-on Process	by switching on the screen	Switch-on via screen not possible. Performed via wake-on-LAN or via external start mechanisms.	Switch-on via screen not possible. Performed Pro via wake-on-LAN or via external start mechanisms.
Assembly	simple assembly with standard assembly accessories	simple assembly with standard assembly accessories	Assembly is only possible with individual solutions. Installation in a rack, furniture or trolley with body is recommended.

All information is non-binding. Comparable, more powerful/up-to-date alternatives are possible. We would love to advise you on the selection of suitable components for smartPerform.



Hardware Requirements

Computer

Equipment	Minimum Requirements	Recommended for Mobile Laptops/ Tablets	Recommended for PCs 2K (Full HD) Resolution	Recommended for PCs 4K Resolution	Recommended for PCs 6K Resolution
Processor	6th Gen Intel®Core™ i5 (min. 2 GHz base frequency)	7./8. Gen Intel Core™ i5/i7 (min. 2,4 GHz base frequency)	7./8. Gen Intel®Core™i5-7500 (min. 3,0 GHz base frequency)	7./8. Gen Intel®Core™i5-7600 (min. 3,5 GHz base frequency)	Intel® Xeon™ W-2125 (min. 3,5 GHz base frequency) ASUS WS X299 Sage
Graphic Card	onboard	onboard (Intel® HD graphics 530/620)	Nvidia® Quadro® P2000	Nvidia® Quadro® P4000	3x Nvidia® Quadro® P5000 + 1x Nvidia® Quadro® Sync II
RAM	4 GB RAM	min. 8 GB RAM	min. 8 GB RAM	min. 16 GB RAM	min. 32 GB RAM
Hard Drive	HDD/SSD	SSD	SSD	M.2 PCIe® NVMe™ SSD	M.2 PCIe® NVMe™ SSD
Operating Software Note: For the current version of smartPerform, a current software version is required for the operating system	Windows 7 SP1, 8.1, 10 (32-/64-Bit) Microsoft®.Net Framework 4.7.1	Windows 10 (64-Bit) Microsoft®.Net Framework 4.7.1	Windows 10 (64-Bit) Microsoft®.Net Framework 4.7.1	Windows 10 (64-Bit) Microsoft®.Net Framework 4.7.1	Windows 10 (64-Bit) Microsoft®.Net Framework 4.7.1
Optional Software	Microsoft® Office 2010	Microsoft® Office 2016	Microsoft® Office 2016	Microsoft® Office 2016	Microsoft® Office 2016
Video Input Cards	<p>Other software for the editing mode or representation of certain file formats or program, Video codec pack, video conferencing codecs, etc.</p> <p>Practically all cards with DirectShow function are supported such as products from Datapath or Epiphan. The following criteria are relevant for the use of smartPerform Pro:</p> <ul style="list-style-type: none"> - resolution - number of inputs = simultaneous display of video signals in smartPerform - audio integration - internal plug-in card (PCI-e 4- / 8-way), for example, respective Datapath series - external USB device, for example, respective Epiphan series 				

All information is non-binding. Comparable, more powerful/up-to-date alternatives are possible. We would love to advise you on the selection of suitable components for smartPerform.



Equipment

Depending on the use of the interactive applications, e.g. as a multi-touch table, wall display, power wall, stele, lectern, tablet or laptop solutions, different requirements are imposed on the peripheral systems such as displays, touch technologies or sensors.

The following is an overview of the most important device groups. We would be pleased to advise you on the selection of your accessories for smartPerform Pro.

Periphery

Displays & Touch Technologies	<p>All Microsoft® Windows compatible touch displays (HID) are suitable for operation with smartPerform Pro applications. Regarding equipment, brightness, operating time of the respective display technology, the manufacturer's customary design specifications apply. When selecting, the following factors must be considered in conjunction with a smartPerform Pro application:</p> <ul style="list-style-type: none"> - the use of displays as touch tables requires a release for the horizontal installation by the manufacturer. - for simultaneous operation with several fingers (i.e. zoom functions) or through multiple users (multi-touch / multi-user) is based on the number of maximum values touch points. - when selecting the touch technologies (camera / IR / capacitive - integrated or as an attachment frame) or when using systems for gesture control (i.e. Kinect or Radar-Touch) are interactions with factors of the operating environment and usability.
RFID Sensors	Phidget RFID Read-Write I024_0
Object Recognition	Requires TUIO protocol, an object recognition software, and marker objects (Tokens) from the hardware manufacturer.
Integration of Smartphones/ Tablets (iOS/Android operating systems)	For the integration of mobile devices with iOS / Android operating system application-specific APPs are offered: (www.smartperform.de).
Integration of Computers without smartPerform Pro (Web browser)	For the integration of computers without a smartPerform Pro application, application-specific HTML pages are offered: (www.smartperform.de).

All information is non-binding. Comparable, more powerful / up-to-date alternatives are possible. We would be pleased to advise you on the selection of suitable components for smartPerform Pro.