

Digital Signage

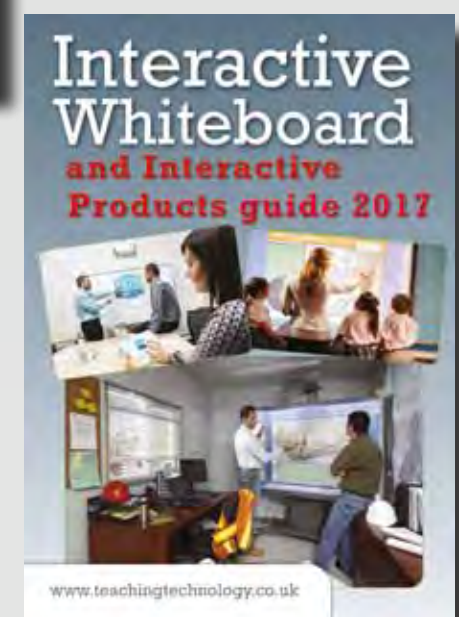
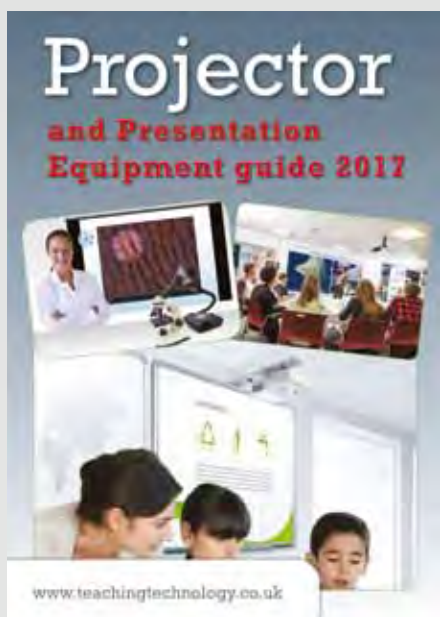
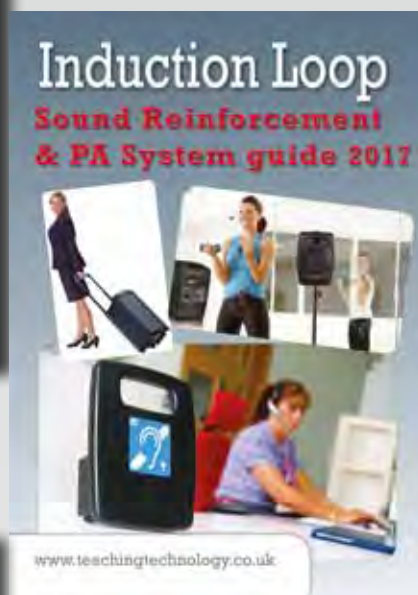
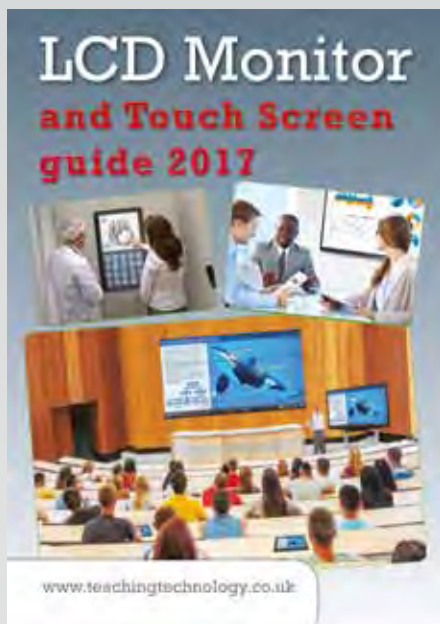
guide 2017



Digital Signage

guide 2017

Audio Visual Guides





Repeat Signage™ V4 Media Wall Edition at Velo Restaurant Ltd., Tooley Street, London Bridge, London

DIGITAL SIGNAGE GUIDE

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LINDA S. ADAMS

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Disclaimer: The purpose of this guide is to give a general overview and acts as a guideline only. Information, to the best of our knowledge, is correct at the time of writing. However, changes do occur with some models being discontinued whilst newer models and features come onto the market. We accept no liability, therefore, as to the accuracy of completeness of the information provided here. E. & O.E.

No claims arising from this guide can be accepted. It is a guideline only.

Digital Signage guide

Many organisations still have notice boards with paper notices, which means printing out pieces of paper, and can look rather messy.

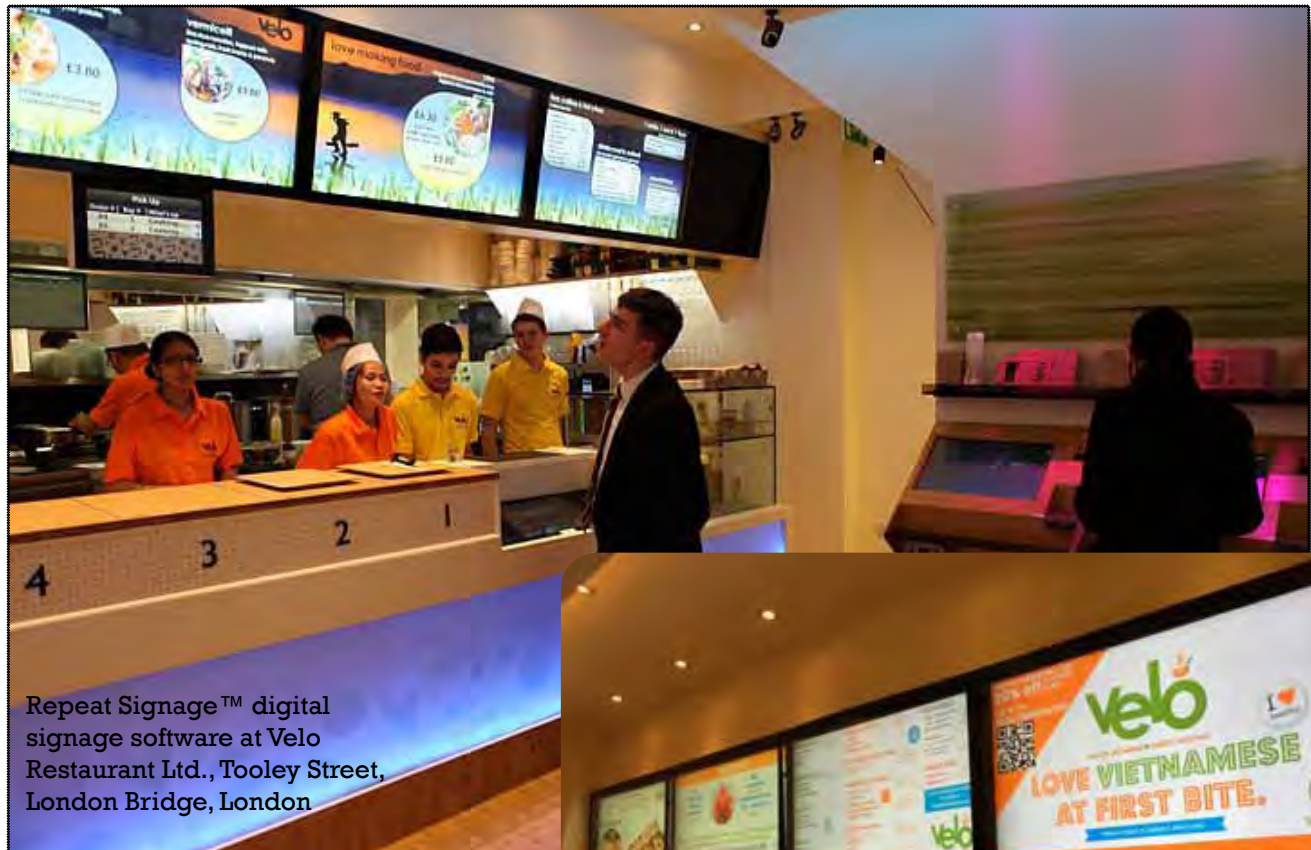
Digital signage is about using small and large computer monitors (display screens) to display still and moving images, like having a digital notice board.

Different information and messages can be scheduled to be displayed at various times of the day or week and can be updated from a computer in the building or over the Internet. This makes for a nicer looking 'notice board' area, or an information point in the reception area to engage with your audience.

The aim of this guide is to give you an overview of digital signage including display screens, touch screens, digital signage media players and digital signage software, including solution ideas.

www.teachingtechnology.co.uk

Digital signage



What is digital signage?

There are dozens of notice boards on walls throughout schools, hospitals, businesses and public areas. Many of these are used for displaying information for students, staff and visitors, Health & Safety notices, information and events, etc.

In shops and public areas, such as libraries, museums, restaurants, hospitals and airports, you will see notice boards and posters all giving information or advertising services.

A traditional poster is either a printed A4 or A3 piece of paper which has been produced from programmes such as Microsoft Word, Microsoft Publisher or any of the other word processing or desktop publishing packages. When the information on



the printed poster needs changing, you then need to change the information in the software package, reprint and physically swap the posters on the notice board.

More and more large display screens are appearing in restaurants, airports, shopping malls, universities and other places displaying information such as

“We launched our restaurant in London. It features self-service touch-screen technology and a digital menu board using Repeat Signage™ digital signage software.”
Nghị Nguyen,
founder of Velo Restaurant Ltd.

[Repeat Signage trial download](#)

www.repeatsoftware.com

a newsfeed, weather, date and time, pictures and videos, etc., this is called digital signage.

Digital signage is about using small and large computer monitors (display screens) to display still and moving digital posters which have different information scheduled at varying times and can be updated from a computer in the building or over the Internet.

A typical set up is a 42" LCD / LED screen connected to a computer (which could be a mini PC on the back of a screen cabled to a PC base unit somewhere else, or a slot-in PC that slots into the back of a screen), plus some digital signage software.

A classic example would be a screen in a school reception area or screens in a college library. These can be used to display information on school events such as sports day, drama productions, after school clubs, parent evenings, etc. on part of the screen, and possibly examples of student artwork on another part of the screen.

Scheduling on the screen could be used to display different information at various times of the day. An example would be events information to parents in the morning bringing children to school. This could change to information to pupils mid morning, menus to pupils and teachers at lunchtime, artwork displays or sporting activities in the afternoon and more information to parents collecting children at school leaving time.

Updating information can be done from another computer on the school's computer network with presentations being sent to the computers attached to the screens around the building.

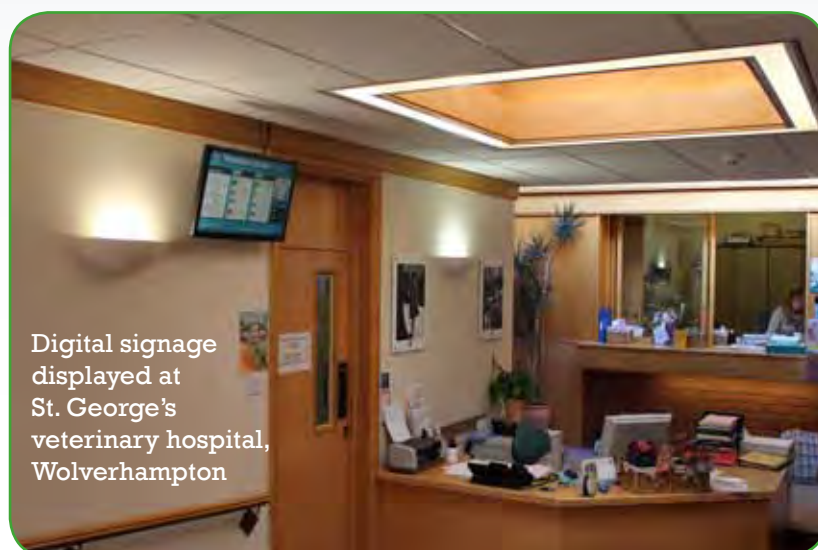
In a business reception area, products and services can be advertised, and when visitors arrive, they can be greeted by a welcome message scrolling along the bottom of the LCD display screen or interactive display screen. Where the digital signage software package has a .PDF page turning feature then you could include your company's brochures, especially useful when you have an interactive (touch screen) display screen.

An example would be in a retail store where desktop touch screens running signage software displaying the company logo, date, time and RSS newsfeed of current offers, and a .PDF page turning brochure for customers to browse through the catalogue.

NEC LCD public display screens displaying information in a library, using digital signage software

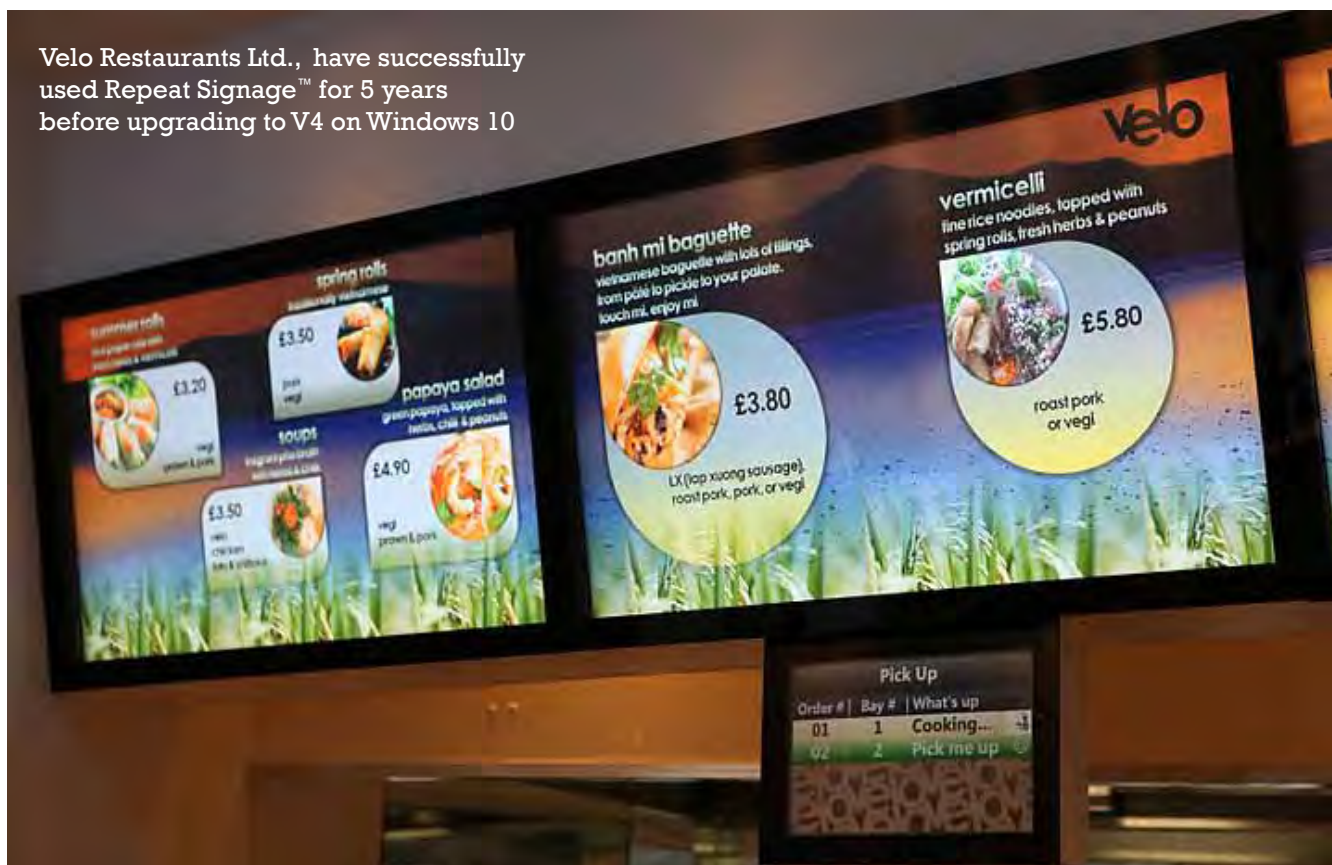


Digital signage displayed at St. George's veterinary hospital, Wolverhampton



Why not just use PowerPoint instead?

Velo Restaurants Ltd., have successfully used Repeat Signage™ for 5 years before upgrading to V4 on Windows 10



Many schools and businesses use Microsoft PowerPoint® on their PC's for creating presentations to promote their activities on display screens



Microsoft PowerPoint® does an excellent job of allowing you to design and display presentations. PowerPoint is presentation graphics software and is one of the best presentation graphics packages available.

Digital signage software is different to presentation graphics software.

Understanding the difference will allow you to decide whether PowerPoint, or another presentation graphics package, is a better option for you than using digital signage software.



The advantages of PowerPoint are:

- Very easy to use and many people are already familiar with this software package.
- Large number of effects and transitions between slides, which are generally not seen in all digital signage packages.
- Is already in use every day in education establishments and many businesses.
- Licences may already have been bought and in use in your organisation. PowerPoint Online is available with Microsoft Office 365 subscription, enabling you to view and edit documents on your mobile devices or you can work directly with presentations on the website where presentations are stored.
- Supports a huge variety of audio/video formats, PDF documents, Microsoft Office documents, etc, some of which are not supported in all digital signage software.

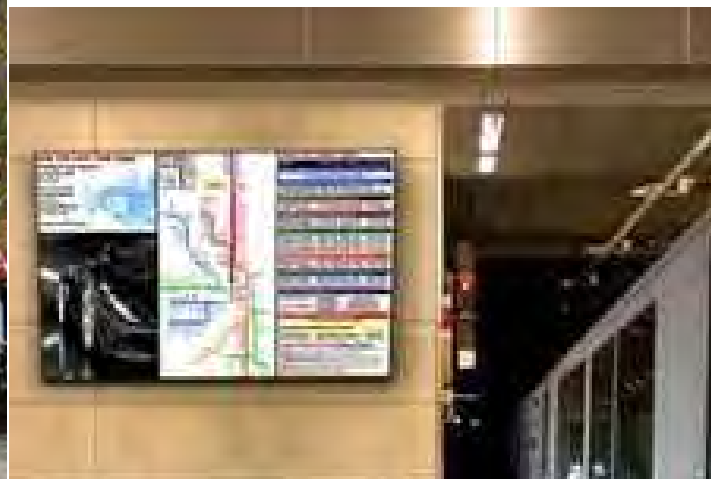
Panasonic outdoor large format signage display screens



The advantages of digital signage software are:

- Scheduling on an hourly, daily or weekly basis what is displayed on screen.
- Depending on the digital signage software package, allows effects and transitions, the display of documents such as Microsoft Word and Excel, OpenOffice, page turning .PDF files, PowerPoint scheduling, built-in spreadsheets and ability to display content from databases.
- Normally, a choice of where to update your presentations - over the local network, via .FTP or over the Internet from a website or cloud server. Software licenses may be one-off fee or subscription SaaS Software as a Service
- Some allow multi-monitor support for video walls to display a single presentation that spans all screens or different presentations on individual screens. Some packages offer touch screen support for interactive signage.
- Generally, support for RSS news feeds, for example, to display news from the BBC website or your website, and live video source such as webcams

Peerless Xtreme display screens



Promoting your products and services or creating revenue with digital signage



In many UK Post Offices, you will now see digital signage screens displaying adverts for both local and national businesses. These are installed and maintained by advertising companies who charge these businesses for displaying their adverts to Post Office customers.

A local business could, for example, have its own commercial LCD display screen, and using digital signage software, advertise its own products and services. There may also be potential to generate revenue by advertising other local businesses as well, perhaps with non-competing products and services to the same customers. An example of this would be an estate agent advertising the services of interior designers, decorators, furniture store, house removal firms, etc.

In the education sector, schools and colleges could advertise paid for courses or even generate revenue from local businesses advertising beneficial services to students and parents., such as local piano teachers advertising lessons or local fitness instructors promoting aerobic and dance classes.

Digital signage software allows you to display your logo, images, text, videos, date and time, RSS newsfeeds and other media such as webcams.

Pictures show screenshots of example presentations using Repeat Signage V4 digital signage software. For a trial download please visit: www.repeatsoftware.com



Images above courtesy of NEC Displays



What do I need for my digital signage presentations?

To compose and display your posters digitally, you need three basic components:

-Software to compose and display your digital posters.

This could be graphics presentation software such as Microsoft PowerPoint or OpenOffice.org Impress; video editing software such as Windows Movie Maker; or a professional digital signage software package such as Repeat Signage. Signage software packages are available as stand alone versions, for updating content locally, for use with a computer, media player (mini PC), OPS Slot-in PC, or for updating via the Internet. Cloud web-based signage is where you design and play our presentations onto a display via a web browser and normally offered as a monthly or annual subscription. Some digital signage software packages have touch screen support. Repeat Signage software allows updating of content via the Internet without any subscriptions, you only pay a one-off license fee for each PC displaying your presentations.

-Dedicated computer or laptop or a media player or OPS Slot-in PC to play your message.

The reason you would use a dedicated computer is that trying to work on the same computer as the one that is playing out your digital signage presentation would be difficult, especially when using High Definition (HD) or Ultra High Definition (UHD) images or videos, as this would use up a lot of your computer's memory.

A media player is basically a small computer designed to display digital signage presentations, although there are several models available depending upon whether you want to display your presentation over a single LCD display screen, dual screens, four screens, etc. Or you can use an OPS Slot-in PC that fits display screens with an OPS slot. Windows and Android models are available.



Nexcom digital signage player

-Display screen on which your message can be viewed.

For example, a commercial LCD desktop or large format display (LFD), commercial LED monitor (an LCD monitor with LED back-light), a high-end projector and projector screen or window film. High brightness display screens are available for shop windows, Ingress Protection (IP rated) screens and kiosks for outdoor signage and display screens for 16/7 and 24/7 operation are all available on the market from leading brand manufacturers.

-Or a solution that combines two or more of these components.

For example:

1. Digital signage software, a media player and display screen.
2. Digital signage software and a display screen with Open Pluggable Specification (OPS) slot that allows a Slot-in PC.
3. Display screen with integrated player and embedded software.

Samsung displays offer MagicInfo with server, USB or embedded template options. Sharp signage display screens for 24/7 retail and office images has an integrated 4K USB media player, which plugs into the display screens USB slot.



Sharp large format display screens for landscape or portrait with 24/7, video walls and high brightness models

Professional digital signage software



Large format display (LFD) with Nexcom OPS module player (Slot-in PC), playing digital signage software

Turn your display screens into digital notice boards, menu boards or advert displays

Professional digital signage software lets you create your presentation using a variety of media. Depending on the software package, for example, you can insert pictures, animated gifs, text, Rich Text Format (allowing you to use bold, italics, etc), documents such as Microsoft Word, Excel, OpenOffice, Adobe PDF documents, real-time date and clocks, Flash clocks, PowerPoint scheduler, video, webcam, web browser and RSS feeds.

Stand-alone digital signage software is where you install the software (often a download link which you can evaluate first and then purchase the software licence) onto your computer or laptop. You design your signage presentation and then 'play' it from your computer onto a desktop monitor, a large format display screen or through a projector onto a projector screen or window film.

Using your normal computer to play a signage presentation and work on your computer at the same time is not practical. Dedicated computers, called digital signage players or media players are normally used to play out presentations onto screens.

Some digital signage software allows

you to create presentations for interactive touch screens.

Digital signage players (also called media players or mini PC's) are available with dual, quad or multiple outputs that allow you to play your presentations onto a video wall, also called a media wall.

Some large format display screens (LFD) have an OPS slot to allow a Slot-in PC, which keeps the Slot-in-PC securely and neatly tucked away at the back of the screen, thus deterring theft and tampering with software.

When using display screens without a Slot-in-PC option, mounting solution manufacturers have provided mounts

to incorporate a media player to be sited within the bracket and screen installation.

Stand alone digital signage software, depending on the software, may be available in Standalone, Standard or Media Wall editions. All-in-one usually denotes that all elements are included in the software, for example, a designer to create your presentation; a scheduler to specify the date and time you want your presentations to be displayed and for how long, and a player that 'plays out' your presentation onto your display screen.

These all-in-one stand-alone software packages are cost effective as you normally pay one licence fee for the whole software solution. This license fee may be renewable after a given period of time or be a lifetime one-off license fee, with upgrade options.

Another important feature to consider is the support in the form of a help system, free or paid for training videos and free or chargeable email support.

Depending on the digital signage software, licences may cover the software being displayed on a single display screen, dual screens, four screens etc. Where you want to display different presentations on each of four screens, for example, some software packages need one license for installation onto one computer attached to four screens. Others may require a separate software licence for each computer and screen. For education and large corporations, site licenses may be available.

All this sounds very complicated, but as there are so many options on the market, it is worth the time and effort to trial a few and check the licensing requirements before purchasing.

Digital signage software that is cloud based (Internet/web-based portal) means that the software is hosted on the software developer's website and you use your web browser on your computer, smartphone or tablet, to create your account and log-in. From there you can design, schedule and distribute your signage presentations to your display screens. Cloud signage is normally Software as a Service (SaaS), on subscription, where you pay for different levels of service.

Not everyone wants to host their presentations on third party websites, however some software offer a choice of updating content.



Repeat Signage™ V4 digital signage software helps you get your message across and promote your products or service. It is easy to use and you can create a presentation and have it playing in minutes. You just need a Windows based PC, a large display screen and Repeat Signage. Features include touch screen support, remote updating and scheduling of presentations, and it supports Windows 10, 8/8.1, 7, Vista and XP.

Why Repeat Signage? The Repeat Software team will give you an outstanding level of support with free training videos, sample presentations and we have satisfied customers in over 29 countries across the globe.



Developed in the UK, Repeat Software Ltd can customise Repeat Signage V4 for industry specific and regional versions.

[Download trial edition](#)



Repeat Signage V4 Standalone

This edition is designed to be used in reception areas, on exhibition stands and in individual shops. You can design a presentation and then just play it on screen, or when Windows starts. Changing the presentation content is done manually. The only control that allows remote updating is the Flash RSS feed control. From within the software you can access our cloud server where you can create RSS news feeds to display and update in the Standalone edition.

Repeat Signage V4 Standalone edition is in use on some RAF (UK Royal Air Force) bases in the UK for displaying information. Because of internal security policies, the digital signage computers were not allowed to be networked, so a quickly updatable standalone system, with minimal training, was required. Internet-based digital signage systems simply cannot be used in this type of situation.

www.repeatsoftware.com

Creating digital signage presentations



Sample professionally designed medical template from Joe Mule Creatives

To create your signage presentations you can start with a blank page or template or have a graphic designer create you a professionally designed custom template for your business



Using one of the simple included templates, you double click the pictures and replace these for your own pictures. Double click the text and again, replace with your own text. You could add one of your videos instead of a picture and an RSS newsfeed, Flash clock or other media.

You can use the advert templates to generate an income by displaying these at set times of the day or week.

Professional digital signage software, such as Repeat Signage, lets you create your presentation using a variety of media. You can insert pictures, animated gifs, text, Rich Text Format (allowing you to use bold, italics, etc), documents such as Microsoft Word, Excel, OpenOffice, Adobe PDFs, real-time date and clocks, Flash clocks, PowerPoint scheduler, video, webcam, web browser and RSS feeds.



Digital signage presentation examples



Professionally designed restaurant template from Joe Mule Creatives



This simple presentation was created by inserting media into a blank template in Repeat Signage digital signage software.

With a blue background, we inserted a logo (picture), date and time, a play list of pictures, a spreadsheet displaying surgery, patient names and duty doctors, an RSS feed, and along the bottom of the presentation, text and images. A receptionist can easily edit the spreadsheet which updates on the display screen showing the presentation.

This example is a spreadsheet displaying a menu with text, prices and pictures.

You could create a presentation with your logo, date, time, RSS feed and spreadsheet.

You can schedule different presentations to play at various times of the day or week.



Digital signage presentations



Repeat Signage V4 Standard - Remote and network updatable system for schools, retail outlets and businesses. Includes a built-in spreadsheet for sales graphs, menus, class lists, etc. Touch screen support.

How to create a Repeat Signage digital signage presentation

Download [Repeat Signage software](#) onto a Windows PC. Open the software and click Presentations. Select Create a Presentation. Either select a template and change our images and text for your images and text, or select a blank template and insert a variety of media to create a presentation.

In our hotel example, we inserted pictures, text, Flash clock, Flash banner (text over pictures) and an RSS news feed. Once inserted, you drag and drop into position. Double clicking each control opens up options so you can change fonts, size, colours, time zones, transparency and how long you want each picture to display before changing to the next picture.

The sample presentation for the Ambassador Hotel in Cork was simply designed using one of their corporate colours for the background.

Along the top, the hotel logo, name, date and time were inserted and moved into position and fonts and colours selected. The bottom bar shows the hotel's contact details.

Using the Flash banner control (text over pictures) a playlist of hotel pictures was created with a choice of 50 transitions to change from one picture to the next after a pre-selected time, e.g. 10 seconds. Text label colours and background can be customised to corporate colours.

The green bar is a rectangle shape with pictures and RSS feed inserted on top. Screenshots right show how the play list of pictures changes. Ideal for reception to showcase hotel facilities to guests.



Repeat Signage V4 Standard Edition is ideal to showcase products and services in a variety of businesses. Examples show how pictures change to showcase hotel facilities



Digital signage for corporate applications

Repeat Signage V4 Corporate Edition

Remote and updatable system with professional features plus the ability to display information from databases



Repeat Signage V4 Corporate - Remote and updatable system with professional features plus the ability to display information from databases. Touch screen support.

Repeat Signage V4 allows the insertion, with drag and drop and easy resize, of a variety of media including pictures, animated gif (or svg), text, Flash banner (pictures with text), Flash clocks, Flash RSS reader, Flash (swf), Flash video (flv), audio, document, RTF document, PowerPoint, spreadsheet (has an in-built spreadsheet), page-turning PDF, webcam and web browser.

Displaying spreadsheets allows you to display information such as sales graphs, hospital patient lists or classroom attendance lists.

The Repeat Pictures feature (in all editions) has 4,000+ icons for use in your presentations. You can select an advert template and create adverts for complementary products or services to generate an income.

Repeat Signage allows you to update your content from a local network, from a website, via FTP or you can update remotely over the Internet. From the main menu select RepeatServer.com to create your RSS feeds, access over 3,000 images for use in Repeat Signage, and update your presentations anywhere in the world (with an Internet connection).

For businesses that use a database for querying product information, then the ability to display content from a database into a digital signage presentation opens up many possibilities. Both the Repeat Signage V4 Corporate and Media Wall editions include database support.



Repeat Signage at Caxton Publishers, Johannesburg, S.A., and below, Repeat Signage on outdoor displays at Harrisburg International Airport (HIA), Pennsylvania, United States.



[Repeat Signage trial edition](#)

[Repeat Signage success stories](#)

Digital signage presentations

Repeat Signage V4 for UK Estate Agents

Customised Standard edition plus the ability to display RightMove and ExpertAgent property files



Repeat Signage V4 for UK Estate Agents - Customised Standard edition plus the ability to display RightMove and ExpertAgent property files. Touch screen support.

The Repeat Software development team are able to customise the Repeat Signage Standard edition software for niche markets, such as Repeat Signage for UK Estate Agents

This edition is the customised Standard edition plus the ability to display RightMove and ExpertAgent property files. The software also includes templates for you to easily create your signage presentations.

Repeat Software are happy to work with IT and AV resellers and resellers in niche markets to customise for particular markets, such as adult care and residential care homes.

Brand manufacturers, such as Sharp, NEC, LG and Panasonic, have high brightness large format displays in their range, which are ideal for placing in estate agents' windows or retail stores.

Picture right is a Sharp digital signage display screen; picture below an LG window-facing display screen.



Repeat Signage template, change our images and text for your own



Sharp PN-Y series of displays for digital signage applications

Digital signage for video walls

Repeat Signage V4 Media Wall Edition

Fully featured professional signage for creating 4-monitor media and video walls. Database support.



Repeat Signage V4 Media Wall - Fully featured professional signage for creating 4-monitor media and video walls. Database support. Touch screen support.

Repeat Signage Media Wall edition digital signage software is designed for use with 4-screen video walls. You can display a presentation across all 4 screens or have different presentations playing on individual screens. Presentations can be designed in any resolution, such as Full HD 1920x1080p or Ultra HD 4K at 3840x2160 pixels, in landscape or portrait.

Although Repeat Signage Media Wall has 4-monitor support, it has been running successfully for several years as a donor wall in a US hospital. All 6 display screens of various sizes and orientation, display a single image, and using playlists and scheduling, changes to pictures of the hospital donors, spreadsheet of donations and pictures of purchased medical equipment.

[Repeat Signage trial edition](#)



Repeat Signage at Yowidell in Kuala Lumpur



Repeat Signage Media Wall in use at a US hospital as a 'donor wall'

Digital signage players



Sharp digital signage display screen with embedded USB media player

Media players, or digital signage players, which they are also known as, are available for both Windows and Android operating systems, with various specifications from displaying signage presentations onto a single display screen or multi-screen video walls.

Media players are available with or without digital signage software. Once you have created your signage presentations, you connect the media player to a display screen or video wall panels.

In 2007, the first Slot-in PC's appeared on the market, in which you slotted a Slot-in computer into the side or rear of a display screen, thus deterring theft and tampering. These were followed in 2009 by OPS (Open Pluggable Standard), which are the same in that they accommodate Slot-in PC's, but with a much smaller slot for the OPS Slot-in PC. Both Windows and Android operating system Slot-in PC's are now available on the market.

In 2013, Samsung brought out System on Chip (SoC), initially introduced on TV's, and together with their digital signage software, MagicInfo, provided customers with an all-in-one solution. Their MagicInfo Lite software is shipped with their display screens with options to upgrade to MagicInfo Premium software depending on whether you want light signage with basic features or a fully featured software solution.

In 2014, Sharp introduced an embedded USB media player into their PN-Y series of displays, for LANless and light signage USB based applications. You can load .jpg and/or .vmw contents onto any USB memory stick, which you insert into the USB port of the display screen. The embedded USB media player in the display screen then looks into the USB's folder and automatically plays a maximum 30 contents cued onto it.

Where you need the power of a computer operating system to display your digital signage presentations, especially if you are using HD graphics and videos, then you would need



to consider a media player that is a dedicated computer, rather than a USB media player.

The NEXCOM NDiS series, with fanless design for almost silent operation, addresses the requirements for a broad spectrum of digital signage applications. This series of cost-effective digital signage players support single, dual and multiple display screens, whilst their OPS Slot-in PC's slot into the back of display screens with an OPS Slot, for both Windows and Android. NEXCOM also specialise in industrial fanless computers and PC factory automation.

Edis Audio Visual have both Windows and Android Quad Core players in their portfolio, plus an ultra mini Windows Quad Core fanless player with embedded Windows 8.1 software, that plays your digital signage presentations through the USB port of a display screen.

Upgrade the Power of your Displays at any Time

REPLACE ALL THIS



Computer | Mounting Bracket | Cables |
Signal Splitter | Media Player



NEC OPS Slot-in options, for
both Windows and Android

NEC OPS Slot-In Options

WITH THIS



NEC OPS Slot-in Option



NDiS M532

NEXCOM OPS Slot-in PC



NEXCOM NDiS series embedded
computer media players for
Full HD video playback (picture
above) and 4K2K video playback
(picture below)



Edis AV Ultra Mini PC



AOPEN digital signage player

Display screens



Sharp displays

Sharp large format displays, with LED backlights, include high brightness models for displays in shop windows and 24/7 digital signage displays. Their 90" model, at 2m length in portrait mode can display life-size images of people.

Large format displays for your digital signage presentations

Although you can use desktop monitors for signage applications, especially desktop touch screens for reception desks, or high-end projectors for displaying signage presentations onto projector screens, generally, digital signage presentations are played onto large format display screens. These commercially built large format displays, (not consumer TV's), are single display panels in either landscape or portrait, or video walls, ideal for displaying your content, whether images, videos, PowerPoint or digital signage presentations.

Projectors have the advantage of allowing large images to be displayed at a low cost. However, don't forget to take into consideration the lamp life of projectors, unless you are using a

zero maintenance projector with laser light source, which have up to 20,000 hours life and no replacement bulbs.

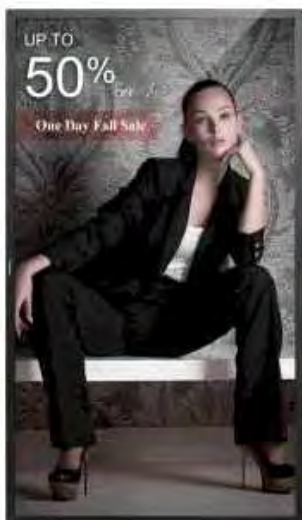
Where you are displaying digital signage with projectors in school hours, then the displays could be on for over 40 hours per week. However, in retail or public areas it could be operational for up to 24 hours a day, and there are projectors on the market designed for 24/7 operation.

Many of the new LCD and LED TV's that you see in high street stores are now inexpensive. However, you need to be aware that these are designed for consumers watching television around 4 hours per day and are not designed for digital signage.

Professional (commercial) screens are better constructed, have better manufacturer warranties and some are designed for 12/7, 16/7 or 24/7 operation. These displays are of better build than consumer models, have better warranties and more connectivity. Should you use domestic (consumer) screens for commercial applications, depending on manufacturer, you are likely to negate the warranty.

Some digital signage software packages are designed for use with touch screens, for example, Repeat Signage. Most higher education, shopping centres and airports now have kiosks with built in touch screens that allow you to find information or wayfinding directions.

Touch screen technology has moved on, therefore it is important to buy the right technology, for example, infrared (IR,) Optical Sensing, Projected Capacitive (P-CAP), for your application .



ViewSonic

ViewSonic large format displays are ideal for a variety of commercial applications. ViewSonic have their own Signage Manager Express which allows you to publish PowerPoint slides directly to the player (static only), for looping or weekly schedule. ViewSonic also have e-posters for retail and ViewBoard for education and the TD range of touch screen monitors.



NEC Displays

NEC have a wide range of large format displays including models for 12/7 and 24/7 operation, landscape and portrait models, high brightness, and ultra-slim bezels for video walls.

NEC large format displays above 32-inch and the PA, PX series of high-end projectors have OPS Slots in readiness for NEC OPS Slot-in-PCs, which allow you to display your digital signage presentations.



Display screens and interactive displays



Sony BRAVIA

Sony BRAVIA Professional displays are slim and energy efficient making them ideal for digital signage applications in a variety of hospitality, retail, public areas and corporate applications.

Sony BRAVIA Pro displays from 40-inch diagonal to 100-inch, are available in Full HD resolution and 4K, all with LED backlighting for energy efficiency.

BenQ

BenQ's interactive displays, both for the education and corporate markets, are designed to encourage collaborative learning and team building in education and business.

BenQ's super narrow P-series of large format displays have high brightness, up to 50,000 hours life, optimised for portrait as well as landscape mode, with 24.7 operation. Ideal for single panel displays or video walls up to 10x10 panels, in bars, restaurants, hotels and other public areas.





iiyama

iiyama have a wide range of desktop, large format displays and multi-touch LED display screens for a variety of applications including large format displays, from 32 to 70-inch diagonal, for digital signage.

Digital signage software that enables touch screen support, such as Repeat Signage, is ideal for interacting with your customers, and iiyama have a wide range of touch screen options from 15 to 32-inch. More and more doctors surgeries now have touch screen check-in, and when coupled with interactive digital signage, can enable patients to see what other services and clinics are available.

ELO Touch Solutions

Elo Touch Solutions provide touch screens for a variety of applications across education, healthcare, retail, corporate, etc. With Point of Sales (POS), check out and large touch screen monitors, Elo Touch allows you to fully engage your customers in the retail sector.

Their range of interactive digital signage (IDS) solutions allow you to show product availability, let customers purchase and ship gifts on their own, offer timely promotions and tie your dot com site to your store.

Elo Touch Solutions include a variety of touch technology for use with finger touch, gloved hands, etc., and UK demonstrations are available.



Elo Touch Solutions



Hitachi

Hitachi's 65-inch interactive multi-touch displays with the option of integrated PC are ideal for digital signage presentations. Download your compatible digital signage software onto the PC and design your presentation before displaying. With a bright LED anti-glare screen, two powerful 15W speakers and the latest wireless capability – all you need to do is walk in, turn it on and inspire. Models in the range also include 84-inch.

InFocus

InFocus have a range of touch screen solutions including JTouch Displays in sizes 40-inch to 80-inch, JTouch Whiteboard in sizes 40-inch to 65-inch JTouch Whiteboard with LightCast which gives wireless collaboration, ideal for education and business. Also in the range is BigTouch 57-inch to 80-inch and Mondopad collaboration solution in sizes 57-inch to 80-inch which is designed for corporate video conferencing.



LG

LG range of commercial LED displays include models for signage solutions, bezel Direct video wall panels and super narrow premium video wall panels, ideal for retail, shopping malls, airports and other public areas. LG also specialise in commercial hotel and hospitality TV's. The outdoor range of displays include open frame models, high brightness and window facing displays. Window facing displays are ideal for both retail stores and estate agents windows for showcasing properties via digital signage presentations. LG's 10-inch signage displays (picture lower left) fit neatly on retail shelves to engage customers.



Toshiba

Toshiba family of commercial displays include hospitality TVs to create a more engaging experience for guests with a stream of impactful entertainment and information; professional signage displays including Ultra HD models, designed for many hours of usage; easy signage TV's for use at health spa's, gyms and hotel fitness suites; and video wall panels so you create large images to ensure everyone sees your message clearly.

Panasonic

Panasonic range of professional displays include high definition LCD indoor and outdoor screens, large and standard sized formats, multi-touch displays, video walls and large format 4K displays. Their indoor System on Chip (SoC) displays are ideal for digital signage featuring an Android™ based App platform.



Panasonic video wall displays



Samsung

Samsung have a wide range of Smart Signage LCD / LED display screens for a range of applications in retail, hospitality, corporate, airports, shopping malls, etc. Samsung also specialise in display panels for video walls, business monitors, commercial TV's, Interactive eboard, Smart Signage TV and Smart LED signage.

Samsung's MagicInfo™ Lite and system-on-chip (SoC) technology, provides built-in digital signage software for an all-in-one display solution. There are options to upgrade from MagicInfo™ Lite, therefore, whether you have single display screens with Samsung's built-in PC signage or are running multi-monitor networks, Samsung MagicInfo-i Premium allows display control from a web-based portal.



Samsung video wall panels



Philips Signage Solutions U-Line display

Philips

Philip's Signature digital signage solution range includes the commercial displays include the basic signage slim Full HD Q-Line available with Ambilight for 43", 48" and 55" models, ideal for car showrooms; the V-Line high brightness range for 24/7 operation in airports and public areas; the E-Line professional 24/7 displays with OPS Slot for Quick Service Restaurants (QSR); Ultra HD signage 4K resolution U-Line, designed for 24/7, portrait mode operability and the ultra narrow bezel X-Line for video walls in shopping malls and large retail stores. For interactive signage Full HD the T-Line are multi-touch displays for a variety of applications.



Aqualite

Aqualite Outdoor TV specialise in outdoor (IP66 rated) LCD and LED TV/digital displays. Their robust design and weatherproof/dustproof IP66 rating allows them to be used in extreme temperatures and high humidity. Available in Standard Brightness or High Brightness 'Sunlight Readable'. The latter are best suited to extreme high bright conditions where there is little or no shade. Aqualite screens are ideal for theme parks, outdoor sporting events, yachts, beer gardens, wildlife parks, museums, etc. All Aqualite Outdoor screens can be supplied as Touch Screen displays, this essentially turns them into a very large Android tablet computer. With multipoint touch and weatherproof capability they're ideal for running Android apps outdoors.

Peerless Xtreme™ outdoor professional flat panel displays and menu boards



Peerless Xtreme

Xtreme™ fully-sealed, seamless professional flat panel displays from Peerless-AV are outdoor screens, without vents, filters, or exhaust fans. The displays are IP68 rated providing the highest possible level of environmental protection, ensuring nothing gets in and nothing gets out regardless of the display placement or environment. The streamlined design is ideal for use in a wide range of commercial applications from theme parks and visitor attractions to transport hubs and shopping centres. The menu board pedestal models (left) are ideal for drive-thru quick service restaurants and other outdoor ordering and information points. Optical bonding ensures that Xtreme displays deliver exceptional readability even in direct sunlight by eliminating reflections.



Aqualite outdoor TV/digital displays and touch screens



Mounting your digital signage display screens

Media player mounts

Where the display has an OPS slot in which to slot in a PC at the back of the screen, then installation onto a wall or ceiling mount is a simple procedure, as the PC fits snugly in line with the back of the screen.

Where you are using a separate media player, then consideration needs to be given as to where you can site this.

Unicol wall mounts with a small PC housing are suitable for small form factor PCs. These interface units, either flat to wall or tilting, can reduce installation time. Custom made and security locking versions are also available.

**Unicol
PCZW
PCZX**



A flat/tilt wall mount with media device storage for 27" to 60" flat panel displays is Peerless-AV's DS508 dual purpose solution for commercial applications, providing media controller housing and access as well as security features. The open wall plate design gives plenty of wall access for installation of electrical outlets and running of input cables and you need a separate adapter plate to fit your screen. Displays can be mounted in both landscape and portrait.



Peerless DS508

Peerless DS-MBZ642L quick service restaurant menu board mount creates a mounting surface through connecting wall plates.



Unicol Screentrac is a modular track system for linear mounting flat screens in any number, ideal for digital menus in fast food restaurants.



Wall mounts



Unicol Adapta-Wall 'push to close - push to open' mount with secure latching.



Constructing a Unicol freestanding video wall stand ideal for foyers or exhibition stands

Trolleys and carts



Loxit Hi-Lo Mono single column floor mounted electric screen lift



Peerless SR598 SmartMount® flat panel cart for 55" to 98" displays



Unicol Rhobus 4-screen trolley

Ceiling mounts



Peerless DST942-6 multi-display ceiling mount

Unicol CP1-1000 twin LCD display ceiling mount



Wall arms



ErgoMounts EMX200 extending wall arm ideal hotel TV's



Peerless articulating wall arm mount

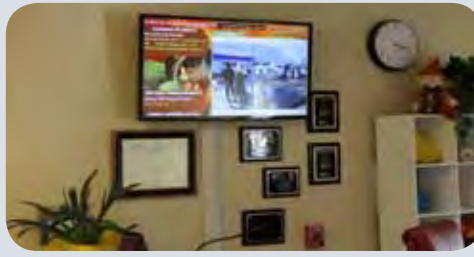
Repeat Signage digital signage software

Digital signage is about displaying still and moving images onto a display screen or video wall to engage with your audience...

1. Download Repeat Signage software onto your Windows computer
2. Easily create your presentations by inserting your logo, pictures, videos, text, clocks, RSS newsfeeds and other media into the software to promote your activities
3. Connect your computer to a display screen to play your presentations and engage with your audience



Repeat Signage: Howard Park School, UK



Repeat Signage: Merryhill School, California



Onion Lake Cree Nation, Saskatchewan

Repeat Signage™ V4 digital signage software for Windows

Repeat Signage digital signage software helps you get your message across and promote your products or service. It is easy to use and you can create a presentation and have it playing in minutes. [Trial download](#)

You need a Windows based PC, a display screen and Repeat Signage. Features include touch screen support, remote updating and scheduling of presentations, and it supports Windows 10, 8/8.1, 7, Vista and XP.

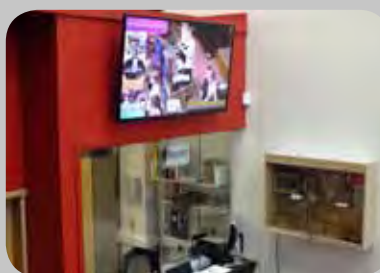
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