



Digital Signage Solution

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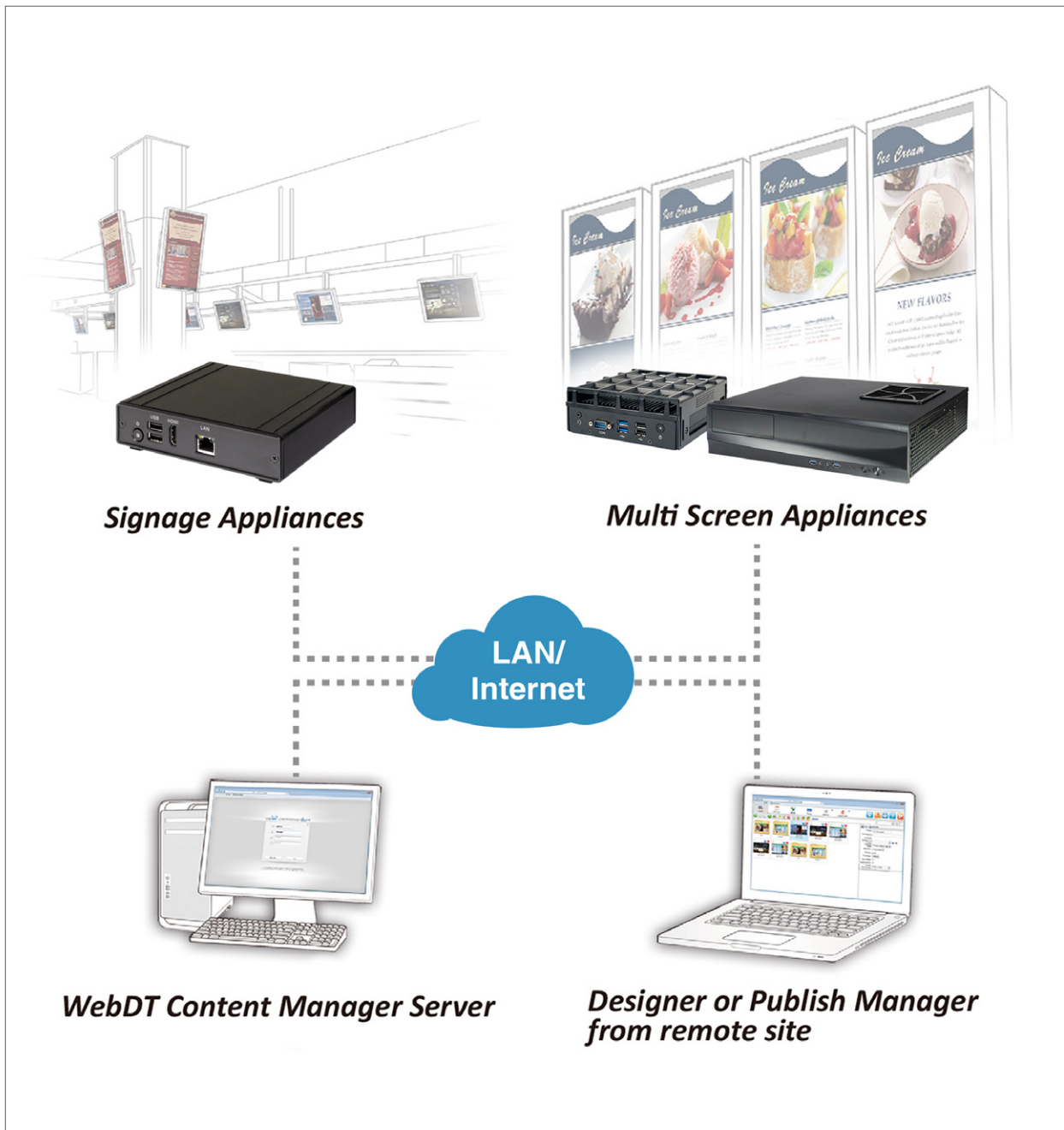
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WebDT Digital Signage Solution

Reach Your Audience with Dynamic Communications

WebDT signage system comprises of innovative digital signage hardware and intuitive web-based digital signage software that allows you to effectively communicate your message in any place, at any time. Whatever your industry, the WebDT signage system can help you deliver dynamic visual messages to optimize your customers' experience while driving sales.

System Architecture



Top Reasons to Choose WebDT Digital Signage Solution



One Manufacturer for Hardware & Software

- All inclusive product development and support
- Pre-integrated for guaranteed compatibility
- Direct manufacturing of hardware and software



Multi Screen Solutions

- Multi-screen appliance solutions and software
- Multi-screen layout control with WebDT Content Manager software
- Frame-based synchronization, tiling, menu board, video ribbon



Versatile File Format Support

- Support for a wide variety of media formats, and also real-time video, PowerPoint, streaming video, live video, and remotely executable (.exe) files



No Recurring Fees

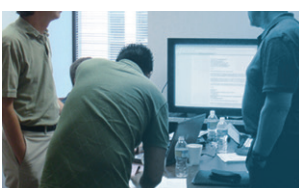
- No license fees, no recurring fee model
- Total control of your own content
- One time investment

*Bundle version only



Remote Web-browser Accessible Management of Devices and Content

- Complete remote management and update functionalities
 - Minimize onsite maintenance
- Minimal training needed, begin managing content within a few hours
- Drag and drop tools



Customization and Strong Engineering Resources

- Flexible to customize with other applications
- Interactive capabilities; touch, kiosk, presence sensor and user-generated content
- SDK available: software development kit (SDK) for third party developers to integrate with other programs and applications

Digital Signage Appliance

Robust, Compact and Energy-efficient Digital Signage

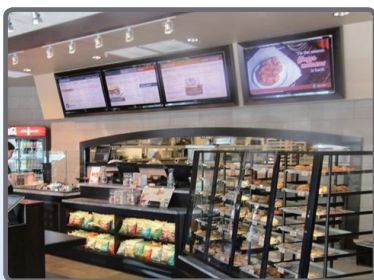


The DT Research SA166CR Signage Appliance features an energy-efficient Intel® Atom™ quad-core processor and Windows® operating system, as well as integrates video-out connectors for high definition display experience. Combined with the industry-leading WebDT Content Manager and Menu Board Editor software, one SA166CR is capable of driving content on the screen while communicating with the server for updates for digital menu board and advertising applications.

Applications

The DT Research Signage Appliances are ideal for the following applications:

- Retail
- Casino/ Entertainment
- Transportation
- Finance
- Hospitality
- Government
- Healthcare



SA166CR



Specifications

System	
CPU	Intel® Atom™ quad core, 1.44GHz (up to 1.92GHz)
Chipset/GPU	Intel® HD Graphics
RAM	4GB
Storage	64GB
Operating System	Microsoft® Windows® 10 IoT Enterprise operating system
Display Resolution	1920 x 1080 @ 60Hz, 3840 x 2160 @ 30Hz
Video Resolution	1080P x 1 @12 mpbs/30fps
Network Interface	10/ 100/ 1000MB BaseT LAN
I/O Ports	
HDMI	1
DisplayPort	1
Audio Jack	1
USB 2.0 Port	2
USB 3.0 Port	1
COM	1
DC-in	1
Ethernet	RJ45 connector for Ethernet x 1

Mechanical and Environmental

Fan/Fanless	Fanless
AC/DC Adapter	Input: 100 – 240V AC; Output: 12V DC, 3.33A
Enclosure	Aluminum chassis; ABS plastics end-caps Aluminum + steel
Dimensions (H x W x D)	1.4 x 5.5 x 5.1 in/ 35 x 140 x 130 mm
Weight	0.88 lbs/ 400 g
Regulatory	FCC Class B, CE, C-Tick, UL, RoHS compliant
Temperature	Operation: 0°C – 40°C Storage: -20°C – 60°C
Humidity	0% – 90% non-condensing

* Specifications subject to change without notice.



Multi Screen Appliances

Power Multiple Screens for Digital Signage Arrays



The DT Research Multi Screen Appliances are designed to power multiple screens for digital signage applications. Featuring powerful, energy-efficient processors and graphic cards, the DT Research Multi Screen Appliances include the latest technology for high-quality video and optimal display experience. Combined with the industry-leading WebDT Content Manager software, the DT Research Multi Screen Appliances are capable of driving up to 16 screens and showing dynamic content while communicating with the server for updates. The DT Research Multi Screen Appliances support various monitor layouts, ideal for a range of applications and deployments.






Applications

The DT Research Multi Screen Appliances are ideal for the following applications:

- **Retail**
- **Government**
- **Casino/ Entertainment**
- **Healthcare**
- **Hospitality**
- **Restaurant**
- **Transportation**
- **Finance**



Specifications

					
Model	MA1352GL	MA1363A/MA1364A	MS600N	MS1600N	MS2800N
System					
CPU	Intel® Pentium®, 4 cores	AMD Ryzen Embedded	Intel® 8th Generation Core™ i7, 6 cores	Intel® X-Series Core™ i7, 8 cores	Intel® X-Series Core™ i9, 10 cores
RAM	8GB	8GB	8GB	8GB	16GB
Storage	256GB flash	128GB flash	250GB to 1TB flash		
Operating System	Microsoft® Windows® 10 IoT Enterprise operating system				
Network Interface	10/ 100/ 1000MB BaseT LAN; Wi-Fi 802.11ac, 2.4GHz/ 5GHz dual band (optional)		10/ 100/ 1000Mb BaseT LAN		
Max. Display Connection	3 screens	3 or 4 screens	4 or 8 screens	8 or 12 screens	16 screens
Display Resolution	3840 x 2160 @ 60Hz (x1) 1920x1080 @ 60Hz (x3)	4096 x 2160 @ 60Hz (x3 or x4)	DisplayPort (1.4) 4096 x 2160 @ 60Hz (x4 or x8)	DisplayPort (1.4) 4096 x 2160 @ 60Hz (x8 or x12)	DisplayPort (1.4) 4096 x 2160 @ 60Hz (x16)
Video Performance ^①	1080P x 2 @ 12mbps/30fps; 2160P x 1 @ 60mbps/30fps	1080P x 3~4+ @ 12mbps/30fps; 2160P x 1~2 @ 60mbps/30fps	1080P x 8+ @ 12mbps/30fps; 2160P x 2~4 @ 60mbps/30fps	1080P x 12+ @ 12mbps/30fps; 2160P x 6+ @ 60mbps/30fps	1080P x 16+ @ 12mbps/30fps; 2160P x 8+ @ 60mbps/30fps
I/O Ports					
Video-out	1 HDMI (1.4) 1 HDMI (2.0) 1 DisplayPort (1.2)	3 or 4 HDMI (2.0)	4 or 8 mini-DisplayPort (1.4) ^②	8 or 12 mini-DisplayPort (1.4) ^②	16 mini-DisplayPort (1.4) ^②
Audio Jack	3.5mm phone jack x 1	Audio set line-out x 1 Mic-In x 1	3.5mm phone jack x 1	3.5mm phone jack x 5 / Digital output x 1	3.5mm phone jack x 5 / Digital output x 1
USB Port	USB 2.0 X 2 USB 3.0 X 2	USB 2.0 X 2 USB 3.0 X 2	USB 2.0 X 2 USB 3.0 X 4	USB 2.0 X 6 USB 3.0 X 6	USB 2.0 X 2 USB 3.0 X 10
Serial/ COM	1	1	N/A	N/A	N/A
Ethernet	RJ45 connector for Ethernet x 1	RJ45 connector for Ethernet x 1	RJ45 connector for Ethernet x 1	RJ45 connector for Ethernet x 1	RJ45 connector for Ethernet x 2
Mechanical and Environmental					
AC/DC Adapter / Power Supply	Input: 100 – 240 V AC; Output: 19V DC	Input: 100-240 V AC; Output: 19V DC Extend power SW x1	300W ATX	500W ATX	800W ATX
Enclosure	Aluminum + steel				
Dimensions (H x W x D)	2.16 x 5.82 x 6.5 in/ 55 x 148 x 165.1 mm	1.89 x 6.54 x 6.18 in/ 48 x 166 x 157 mm	4.1 x 17.3 x 13.3 in/ 105 x 440 x 340 mm	3.5 x 19 x 17 in/ 88.2 x 482.6 x 431 mm	7.9 x 16.9 x 21 in/ 176 x 430 x 546 mm
Weight	1.94 lbs/ 880 g	2.46 lbs / 1120 g	13.2 lbs/ 6 kg	22.16 lbs/ 10.05 kg	36.2 lbs/ 16.42 kg
Temperature	Operation: 0°C – 40°C; Storage: -20°C – 60°C				
Humidity	0% – 90% non-condensing		5% – 95% non-condensing		
Major Option					
HD Video Capture Box	N/A	HDMI input with HDCP support, and connect to Signage Players via USB 2.0 port			
HDMI Video Capture Card	N/A	N/A	Video capture card with HDMI, component, composite and S-video inputs *HDCP content (High-Bandwidth Digital Content Protection) not supported		
1080P Video Capture Card	N/A	N/A	Video capture PCI-E card with HDMI 1080p, component, S-video and composite inputs * HDCP content (High-Bandwidth Digital Content Protection) not supported		
HD Video Capture USB Stick	Video capture USB dongle with S-video / composite inputs * HDCP content (High-Bandwidth Digital Content Protection) not supported		N/A	N/A	N/A

* MS600N available outside the US.

** Specifications subject to change without notice.

*** Case design may differ in different markets/countries.

① Please note that actual performance will still depend on different media content and profile.

② The mini-DP to DP/ DVI/ HDMI adapters are included.



VESA mounting bracket included for MA1352GL.

Multi Screen Appliances

Highlighted Features:

▶ Scheduled or real-time content updates

- Content presented in Flash/HTML/exe files
- Data captured from txt, XML, or a database system
- Allows both creative presentation and convenient data capturing



▶ Multiple screen layout design tool

- Create screen layout and content zones for up to 16 screens and multiple zones
- Full HD (1080p) to each screen
- Multiple media formats supported for each independent zone



▶ Publish an instant message, urgent cast, or update a new schedule

- Interrupt the original schedule for a special event or promotional activity with the Spot List



▶ Live video-in support

- Deliver live video feed from TV, camcorder, DVD player, and web cam



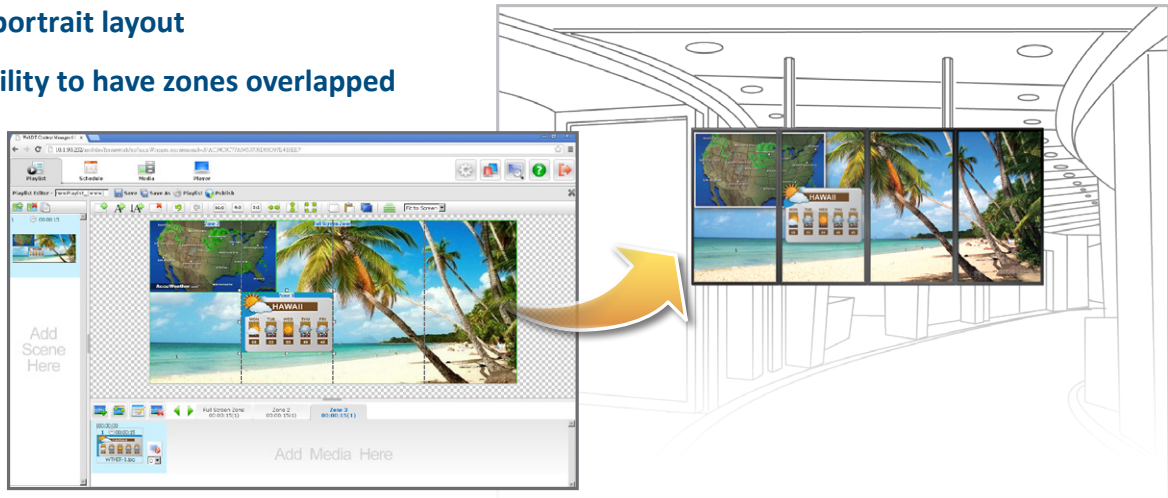
▶ Remote player management, power management, and remote software upgrades

- Easily manage signage appliances from a remote site
- Minimize maintenance cost and maximize efficiency



Customize Multi Screen Layouts

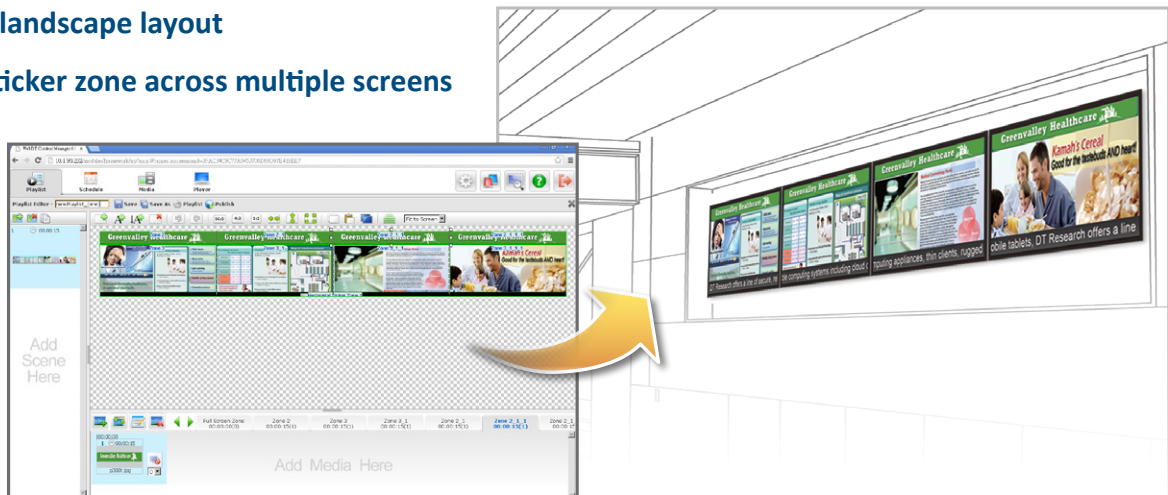
- 1 x 4 portrait layout
- Flexibility to have zones overlapped



- 4 x 4 landscape layout
- Zones can be across multiple screens



- 1 x 4 landscape layout
- One ticker zone across multiple screens



WebDT Content Manager

Streamline Your Workflow

Execute tasks quickly, minimum training required



Promote Your Brand, Reach Your Audience

Translucent Logo:
Insert and highlight your brand logo

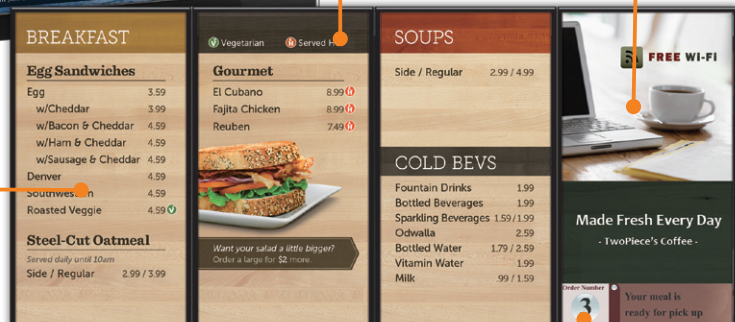
Widget-ready:
Clock, Date/Time, Weather, Urgent Cast, Data Tables

Ticker Zone:
Scrolling text or RSS ticker feeds

Real-time Data Feed:
Connected with database systems, like MySQL, Oracle

Template Library:
Included templates to quickly start creating a screen layout

Multimedia Support:
Support for a wide variety of media formats; flash, PowerPoint, exe, html and more



Cueing system

Comprehensive Functionality with Intuitive Interface

WebDT Content Manager includes new features that enhance the scalability, functionality and usability of content management software. These features enable users to efficiently create professional presentations while minimizing costs. Here are some highlights:



Template & Widget

- Pre-built collection of useful templates and widgets
- Easily import/export playlists and media files
- Interactive commander widget provided; support multi-layer applications



Schedule

- Comprehensive Outlook-style navigation
- Optimize playlist scheduling through quick menu and tool bar
- Easily switch between Day/Week/Month/Agenda/Spot List View



Multi-screen Display

- Manage up to 16 screens and multiple zones with flexible layout design tool
- Clearly convey messages with HD advertising applications
- Play synchronized video across multiple displays



Real-time Data Feed

- Connect with TXT, XML or database systems (MySQL, Oracle) for applications
- Provide a continuous stream of timely information
- Easily incorporate real-time data feed into menu board or data table widget



Urgent Cast

- Efficient editing and preload function
- Instantly push targeted messages to the entire network
- One-click function publishes urgent messages for emergency situations



Flexible Video Wall Configuration

- Multi-window rendering and layout rotation
- Suitable for displays of any resolution and orientation
- Creative layouts to enhance visibility

(Special order)

Case Studies

Transportation

Beijing Airport, China

AirMedia advertising targets a highly valued, captive audience at the Beijing International Airport. By deploying the DT Research Signage Appliances, AirMedia is able to quickly update content for advertisers, and also produce reports to show proof-of-play and timing. With the first deployment timed for the 2008 Olympic Games in Beijing, there are currently over 2,200 units in more than twenty airports across China.



Taipei Bus Terminal, Taiwan

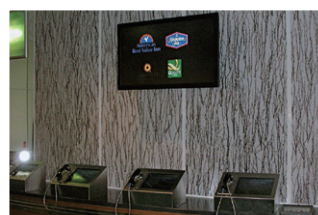
The recently opened Taipei Main Station not only offers the largest transportation terminal in Taiwan, but also boasts a 6-star hotel, residential condominiums, offices, a shopping mall, and a 9-screen cinema. The WebDT Signage System powers displays throughout the station with real-time transportation information. The DT Research 47" display with IR touch provides interactive way finding for visitors to explore the station and surrounding area.

The WebDT Content Manager software enables real-time information updates across multiple zones and lay out styles for this premier property: the waiting hall displays bus travel information and news; the displays at the platforms offer infotainment advertising, and bus status; the ticketing area displays provide ticketing information and service staff details; station managers are shown bus capacity updates and arrival and departure status.



Portland Airport, USA

Arriving travelers at Portland International Airport are provided hotel and transportation options. By using the WebDT 47" integrated displays, and 15" all-in-one integrated displays with touch, visitors can use a self service kiosk to access information and make reservations. Special offers and promotions can be quickly updated with the provided WebDT remote content management software.



Entertainment

World Expo 2010, China

The 2010 World Expo Shanghai is the world's largest international fair and exposition. Over 190 countries and 50 international organizations showcase their cultures and innovations, attracting more than 500,000 visitors daily. The Future Pavilion in the Expo chose the DT Research Signage Appliances and WebDT Content Manager software to deliver high-quality dynamic media content while communicating with the server for continuous updates.



The Studio Museum, USA

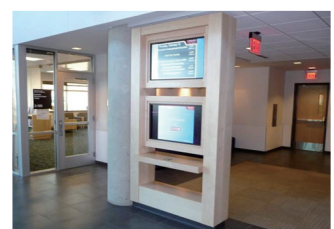
Located in Harlem, New York City, the Studio Museum has installed powerful DT Research signage systems including Signage Appliances and WebDT Content Manager software throughout the museum and lobby to provide instant information to visitors about all programs and schedules. The signage systems are also paired 42" and 52" LCD monitors and wireless keyboards in the conference rooms and education labs used for classes and staff meetings. Other areas that installed the signage system are the Museum store for announcements, advertising and book information, and in the front window of the museum showing images of artworks and events.



Education

University of Minnesota – Carlson School of Management, USA

The Carlson School of Management at the University of Minnesota uses the DT Research 47" display with integrated DT Research Signage Appliance and IR touch providing instant information access to students and visitors on the main lobby and other public areas.



Case Studies

Hospitality

Specialty's Café and Bakery, USA

Specialty's operates 30 bakery-cafes in California, Washington State and Chicago, focusing on service to urban business districts or suburban business centers during the morning, noontime and afternoon hours. With the WebDT Signage Solution including DT Research Signage Appliances and Content Manager software, Specialty's now has the flexibility to target messages to specific times of day and quickly change menus, prices and promotions.



Corporate

Amway, Malaysia

Amway is well known as the world's largest direct selling company and manufacturer for a wide range of premium consumer products. The Amway Brand Center in Malaysia has incorporated the DT Research Event Trigger Signage Systems, the SA2000 and SA3200 signage players with interactive trigger-ports, into its automated interactive technology for welcome presentations in the lobby and for product and company information throughout the center, providing visitors an interactive, user driven experience.



Medical

Toronto General Hospital, Canada

A major teaching hospital in downtown Toronto has deployed DT Research Multi Screen Signage Appliances and large LED screens in the lobby to continuously display the medical projects and hospital information.



Retail

Top Telecommunications Company, USA

The DT Research Event Trigger Digital Signage System was chosen for the wireless carrier's retail stores for efficient deployments and a remotely manageable digital signage network.

Various phone models are attached to the posts, with each post plugged into a port on the Event Trigger Signage Appliances. When a customer picks up the phone, the action of the line being pulled triggers the content on a 17" touchscreen mounted above the phones that gives specific information on that phone.

With WebDT Content Manager software, the wireless carrier is able to efficiently update product information and send it out to all store locations from their main offices, providing timely, quality customer service with the same store staff.



Waitrose, UK

Waitrose, a UK grocery chain, has installed the DS1200 in 116 shops for customer point-of-service applications through partner X2 Computing. The 12" touch screens allow customers to check-out handhelds scanners to use while shopping, and can also be used for advertising and promotions when not being used to register scanners. The new touch screen displays will provide clear, accessible information that is easier to read and enables Waitrose, to meet its continuous program to comply with the Disability Discrimination Act (DDA), and to identify ways to further improve access.



Finance/ Banking

Banco AV Villas, Columbia

The Banco AV Villas in Columbia, South America uses the DT Research Signage Appliances to provide members with information ranging from CD and loan rates, to investing and local events.



Who We Are

DT Research, Inc., founded in 1995 in Silicon Valley, U.S.A., develops and manufactures information appliances including tablet devices and digital signage solutions for vertical markets. From the heart of the Silicon Valley in USA to its engineering centers in Asia, experienced DT Research teams leverage software/hardware integration expertise in implementing technological advances for DT Research's compelling products.

Our Products and Solutions

DT Research offers a wide selection of products based on robust yet aggressive configurations and platforms. These products comprise modular units, desktop display-integrated systems, and mobile tablet devices for embedded computing as well as display-integrated systems and plug-and-play appliances for digital signage applications. All DT Research products are complemented by the intuitive and web-enabled management software executed over both local and remote networks.

Why DT Research

DT Research boasts engineering and production teams, technical support, and distribution partners in key locations worldwide. The result is the ability to offer cutting-edge products that are efficient in both cost and deployment. The solutions are characterized by aggressive hardware and reliable software, and DT Research is the proven partner of choice for embedded computing and digital signage solutions.