All-in-One Digital Signage Player
NDS-320 (Queuing System + Digital Signage Player)

NDS-320, an embedded-hardware-design digital signage player, can convert any monitor/ screen (equipped with HDMI port) into a high-end multimedia queuing system. NDS-320 also enables you to edit the multimedia content and deliver them to your target customers.

It not only delivers your marketing messages to your target customers by multimedia contents (video, audio, image), scrolling text, etc., but also increases and keeps the audiences' attention by integrating your multimedia contents with neutral non-sales content, such as RSS live feeds, YouTube/ FB Live, weather, HTML/ HTML5 websites, HDMI in, etc. Moreover, it allows you to connect with a touch screen which turns your display into an interactive touch experience for greater customer engagement.

NDS-320 is ideal for different kinds of scenarios. It can be positioned at the entrance of restaurants, coffee shop, drink shop, etc. to provide the queue management as well as continuously promote and broadcast the store info, dynamic menus and daily specials. Also, it can be positioned in the lobby of bank, service & maintenance center, government agency, hospital, etc. to provide the queue management as well as convey the information to the waiting people via the diverse multimedia content such as videos, images, etc.

Features of Queuing System

NDS-320 provides you with complete queue system which enables you to integrate queue status information with other contents like video, image, audio, scrolling text, YouTube video/ Live, websites, HDMI in, etc. as you wish. You can create your own multimedia queuing service which is in a class by itself.

Providing 6 Queuing Scenarios

1-Number-Per-Person

A scenario for single-queue and single-counter, such as clinic, take-out diner, drink shop, etc.

Restaurant (1-Ticket-Per-Group)

A scenario for restaurants with limited space, requiring customers to share a table sometimes when needed. Customers may take a number ticket according to their group size. Each number is called separately and sequentially.

Restaurant (1-Number-Per-Group)

A scenario for one-counter concerning seat arrangement to maximize the table turnover rate, such as restaurant.

Multi-Service-Multi-Counter

A scenario for multi-queue and multi-counter, such as bank, hospital, post office, telecom service center, etc.

Single-Service-Multi-Counter

A scenario for flexible counter services, allowing the staff themselves to change the services provided at their counter, such as hospital with multiple clinic room, large-sized pharmacy, etc.

Calling Without Printing Ticket

A scenario for owners who distributes numbered tokens and calls them through an LED counter display or a digital signage, perfectly suitable for drink shop, small-sized clinic, etc.

Flexible Number-Calling & Number-Dispensing Solutions

NDS-320 provides the number-dispensing system APP (iOS, Android) which is free of charge and enables your mobile devices to be used as a number dispenser and number calling system to manage the queue. There is no need to pay the extra money for purchasing expensive number-calling system & number dispenser.
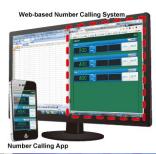
Customizable Number-Dispensing APP

In addition, the number-dispensing system can be integrated with the number-calling system. This allows business owners to dispense and call the number simply through a touch screen. This is suitable for business owners who prefer simplicity style for the entrance of their store.

As to the number-calling system, NDS-320 provides the number-calling system APP (iOS, Android) and web-based number-calling system. Both of them are free of charge. The number-calling system APP enables your mobile devices to be used as a number-calling system. The web-based number-calling system can be used simply via your PC without purchasing the extra mobile devices.

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Queue Inquiry Page

NDS-320 provides the queue inquiry webpage. Customers can use their mobile devices to scan the QR code on their queue tickets to online check the real-time queue status. With this function, customer can continue their shopping or walk around and then come back when it gets close to their time to be served.

Displaying the Real-Time Queue Status on Your Website

Open data API is provided which enables you to display the current queue status on your official website. Thus, customers may visit your website to learn about the real-time queue status before they physically arrive at the store.

More Features of Queuing System

LED counter display (optional) – You may connect the LED counter display to the queue system which shows your customers how many groups are waiting.

Customized sound prompts – NDS-320 offers both vision and sound prompts. The content of prompts is configurable and customizable.

Number Pre-Calling – This function can be enabled when there is no guest or customer tries to take a number. When enabled, pre-called numbers are automatically called as soon as the "Take a No." button from the Nusoft Ticket app is tapped.

Missed Queue Number Recall –When enabled, guests or customers who missed their queue are allowed to rejoin the queue at an assigned interval.

Features of Digital Signage Player

Embedded-hardware & High Stability

By using the aluminium-magnesium alloy enclosure and embedded hardware without having a hard disk, NDS-320 provides high stability and dissipates heat well even when it displays 4k video continuously.

Offline Mode / Online Mode & Central Management

The queuing system can be used independently in the environment without network connection (using the built-in WiFi). Besides, you can also remotely manage, upload and publish the queue status information via wired or wireless network. In addition, NDS manager are provided which enable you to centrally upload the content and manage all appliances that are in different places. Central management can help you reduce expenses related to staffing and maintenance.

Portrait/ Landscape Monitor Support

NDS-320 supports not only 4:3 and 16:9 aspect ratio monitor, but also displays the content in landscape (0°,180°) and portrait (90°,270°). It allows you to mount your monitor according to your environment.

HDMI 4K Ultra HD Video Output Support

It supports 4k x 2k (3840 x 2160 P) @60 fps Ultra HD which delivers realistic, natural-looking and incredible images. Moreover, it provides 4k x 2k H.265 hardware decoding which takes up even fewer space and bandwidth when displaying ultra HD video.

Web-based Interface

The Web-based interface allows you to edit your template and integrated multimedia content, set the publish schedule and monitor the current status of the display via any of your screens from any Internet connection without having to install any software.

Various Multimedia Content Support

You can display various multimedia contents, such as video, image, audio, scrolling text, YouTube / FB live, RSS live feeds, weather, clock, HTML/ HTML5 websites, RTSP streaming, HDMI in, etc. In addition, the multimedia contents can be stored in the built-in storage space, Micro SD (T-Flash), USB storage device and web storage space.

Multimedia Content Synchronization

This function allows you to synchronize your multimedia content (video, image and audio).

Multiple Default Templates & Custom Template

By providing up to 48 default templates, it allows you to select a default template and make your queuing information display with ease. Besides, if the default templates do not meet your needs, you can also create your own template and add different multimedia content to each split screen and zone. Moreover, you can apply effects to items such as overlapping the items or making the items transparent. This makes your campaign more eye-catching and attractive.

HDMI Sources Support

You may add video content from blu-ray player, MOD, digital set-top-box, etc. to your queuing information display. With this function, you may entertain your waiting customers by presenting them the queuing information display along with interesting contents like idol drama, TV show or live news, etc.

Importing New or Custom Fonts

You may import new or custom fonts to NDS-320. This allows you to jazz up your queuing information display by using the imported font that is much more suitable for your content than the built-in font.

Emergency Messaging Support

During an emergency, the alerts and safety instructions can be displayed instantly to assist the crowd in getting to safety.

Touch Screen Support

You can connect input devices to NDS-320, such as touch screen, keyboard and mouse, etc. This enables you to provide interactive displays to impress your customer, improve customer experience and increase customer engagement.

Simple and Intuitive Schedule Arrangement

The intuitive schedule-based design allows you to publish your integrated multimedia content in the right place and at the right time with ease. You can publish the content to the designated screen according to the set schedule or display the content periodically and repeatedly. In addition, you can add the emergency messaging or announcement to take over the current content to provide the information you want to show at any moment. Besides, the screen can be automatically turned off when idle.

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Product Highlights

Highlight	Benefit	Third-Party Product
Hardware		
4K Video Supported	Supports 4k x 2k @60 fps video output and H.265 hardware decoding which enables you to display the high quality video smoothly.	The maximum resolution it supports is 1080p. Thus, it doesn't display image in detail and it is not suitable for watching from a close distance.
Fast Ethernet Port	Provides Giga ports that enable you to efficiently upload and smoothly display the advertising or multimedia files, such as streaming media, YouTube Live, etc.	Only supports 10/100 Ethernet port which makes it slow in uploading and displaying the contents.
Built-in Wi-Fi	The built-in Wi-Fi enables you to wirelessly access the management interface in a wireless environment.	When in the environment without network, the Ethernet cable is required for accessing the management internet.
HDMI in port	Allows you to embed the video content from blu-ray player, MOD, digital set-top-box, etc. in your queuing information display. This makes your queuing information display more appealing and engaging.	Requires the costly appliance to convert the content from HDMI into streaming media to add to the queuing information display.
High Stability	By using the aluminium-magnesium alloy enclosure and embedded hardware, it can dissipate heat well when continuously displaying 4k video.	Uses cheap plastic enclosure which does not dissipate heat well and easily increases problems associated with overheating.
Feature		
Displaying Queuing Information based on Schedule	Allows you to arrange the schedule to display your integrated multimedia content. You can schedule the date and time to display the content on the designated screen accordingly.	Only provides the simple schedule. It is not convenient to modify the schedule, insert or add new content or message.
Multiple Scenarios	By providing 6 scenarios, it is ideal for all kinds of places, such as restaurants, drink shops, clinics, banks, service centers, etc.	Only provide single scenario which is unable to respond to the needs of various environments.
Web-based Number Calling System & Number Calling App	By providing web-based number calling system & number calling app, it allows you to replace the costly touch-screen queuing ticket dispenser with inexpensive tablet which is much more cost-effective.	The touch-screen queuing ticket dispensers are costly. Also, the mechanical number-calling keyboards are vulnerable and the availability of them is low.
Queue Inquiry Page	Allows your customers to check the current queue status by scanning the QR code on their queue tickets. With this function, your customer may walk around and came back when it gets close to their time to be served.	The only thing that the customers can do is waiting in long lines or in waiting areas in front of the store. Customers who are not willing to spend their time waiting in front of the store may give up and leave.
YouTube Live, Facebook Live	Allows you to integrate YouTube Live, Facebook Live and live news into your queuing information display to attract audiences' attention.	Only displays the pre-import videos repeatedly which is fixed and unappealing.
Custom Templates and Zones	Enables you to design the template and add different kinds of multimedia files into each zone according to your needs. Also, you can apply effects to items such as overlapping the items or making the items transparent.	Only offers default templates, you cannot design the template according to your needs or change the style of it.
Importing New or Custom Fonts	Changes the font of the dynamic text, such as scrolling text, RSS, weather, clock, etc., to jazz up your advertising.	Only offers built-in fonts which make your content boring and dull.
Integration of Number Calling & Number Dispensing System	With the integration of number-calling and number-dispensing system, all you need is only a touch screen. This makes the entrance of your store simpler and plainer.	Requires a number-dispensing system and a number-calling system separately. Placing several appliances in front of your store may make your store looks untidy and messy.
Web-based Management	Enables you to manage the campaign and the schedule on the go via any of your screens from any Internet connection without having to install any software.	To modify the content or schedule of your advertising, an installation of the dedicated software on your PC is required. Besides, software incompatibility is another problem.
Central Management		
Central Management in Private Cloud	Provides the private cloud central management which ensures you the safety and reliability of your data. Moreover, you'll have an entire storage space of your own.	Uses the public cloud. There might be a limited storage and bandwidth allocations as well as security concerns.
Signage Group Management	Allows you to group the signage and centrally publish the advertising which greatly facilitates your signage management.	You can only manage each signage individually.
Firmware Upload	Allows you to set a time to centrally update the firmware of all signage.	You can only update the firmware of each signage individually.
Remote Monitoring & Management	Enables you to view the status of all signage as well as the live campaign from the web-based management interface.	Only provides the LED lights to show the status information of signage. You cannot see the real-time campaign remotely.

Airport	Station	Cram School	Campus	Museum	Fine Arts Museum
Department Store	Warehouse	Hotel	Movie Theater	Convenience Store	Pharmacy
Hospital	Bank	Household Registration Office	Maintenance Station	Restaurant	Drink Shop

Specifications

Storage Memory/Available	16GB/11.4GB (allows you to store about 100-minute long H.264 AAC MP4 format video which is downloaded from YouTube)
Networking	Wired Interface: Giga Port x1 Wireless Interface: 2.4G 802.11b/g/n
Video	Output: HDMI 2.0, composite video connector(AUX OUT RLVG) Input: HDMI 1.4/2.2 (HDCP support)
Supported Display Resolution	4k x 2k (3840 x 2160) @60 fps Ultra HD/ 4k x 2k H.265 hardware decoding
Audio	Output: S/P DIF
I/O Port & Card Slot	USB 3.0 x 1, USB 2.0 x 1, MicroSD/ TF expansion slot (supports up to 64GB)
Supported Multimedia Content 1	Video: avi, mp4, wmv Image: jpg, jpeg, gif, png, pdf
Supported Multimedia Content 2	Audio: mp3, wav Embedded Web page: HTML, HTML5
Supported Multimedia Content 3	Scrolling text: txt. (UTF-8 encoding) File: doc, ppt, pdf
Supported Multimedia Content 4	External Resources: website, RSS. RTSP, multicast streaming
Character encoding	Unicode
Supported Language	Traditional Chinese/ Simplified Chinese/ English
Dimensions	8.5x 12.4 x 1.9 cm
Power	5V 3A

Applicable Manager

Model		NDS Manager	NDS-650	NDS-850	NDS-1600
Type		Software-based	Hardware-based	Software-based	Hardware-based
No. of Supported Devices		Up to 5	Unlimited	Unlimited	Unlimited
Real-Time Signage Information	Real-Time Campaign	○	○	○	○
	System Info	○	○	○	○
	Connection Status	○	○	○	○
Signage over Map	Custom Map	○	○	○	○
	Google Map	○	○	○	○
Display Management	Display Editor	○	○	○	○
	Advertising Schedule	○	○	○	○
Queuing Information Display Schedule		○	○	○	○
Signage Update		○	○	○	○
Signage Group		○	○	○	○

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