



الربط الذكي
SMART LINK

User Guide

The complete guide to managing screens, content, cameras,
clinics and live broadcasting

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1 About the System

SMART LINK is an all-in-one platform for managing digital signage screens and clinic queues from a single browser-based dashboard. You add your screens and content once, they appear on every screen exactly when you schedule them, and you monitor everything from any device.

- **Screens & content:** images, video, PDF, web links, weather, countdowns, news, currency rates and surveillance cameras — scheduled by date and time.
- **Reception & clinics:** register patients, print booking tickets, and call the next number on the clinic screen with a voice announcement.
- **Surveillance cameras:** view NVR/DVR cameras live and their recordings on screens and in the dashboard, on-site or remotely.
- **Live control & broadcast:** lectures and interactive presentations with pointer, highlight and chat, plus Jitsi Meet for online teaching.
- **Users & permissions:** fine-grained roles and permissions for every user.
- **Arabic & English:** switch the interface language in one click; works on desktop, phone and tablet.

It suits hospitals, medical centers, restaurants, banks, shops, schools, universities and companies.

2 Quick Start

Four steps to run your first screen:

- 1 **Sign in** with your company code, username and password, then change the password on first login.
- 2 **Add a screen group** from "Screen Groups" (for example: Waiting Hall).
- 3 **Add a screen** from "Screens", assign it to the group, then copy its link (or press "Share" for a QR code).
- 4 **Open the screen link** on the display device (smart TV, Android TV, a computer browser), then add content from "Content & Scheduling" and pick your group — it appears on the screen automatically.

 **Tip:** To try it without a real display, create a "virtual screen" and open its link in any browser window.

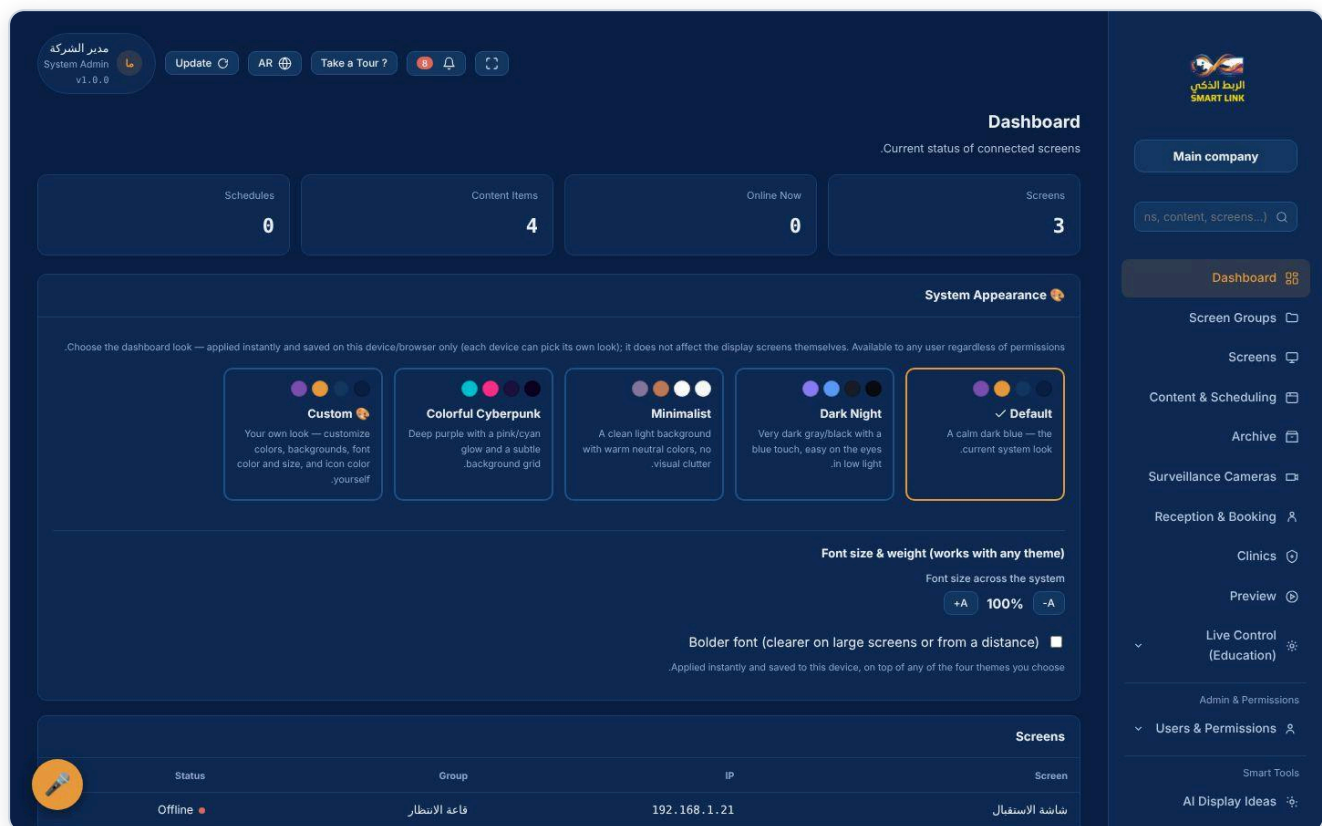
3 Signing In & the Interface

Signing in

You need three details: the **company code** (e.g. C-1001, or the one given by your system administrator), your **username** and your **password**. An account created for you by an admin asks you to change the password on first login — choose a strong one. Repeated wrong attempts are temporarily blocked to protect the account.

Interface overview

- **Sidebar:** all system sections, with a “Search the system” box at the top. You only see sections allowed for your role.
- **Top bar:** full screen, the bell (notifications), “Take a Tour”, language switch (AR/EN), “Update”, and your account menu.
- **Account menu:** change password, mobile & desktop apps, the user guide, contact support, and sign out.
- **“Update” button:** loads the latest data and interface in one click, no Ctrl+F5 needed.



The dashboard: sidebar, top bar and statistic cards.

Theme & font size

From the dashboard choose a theme (Default, Dark, Minimal, Cyberpunk, or Custom with your own colors) and a font size. Your choice is saved on your device only and does not affect others.

4 Dashboard

The home page. At a glance: number of screens, how many are online now, content items and schedules, plus a table with each screen's status (online / offline), group and address. Click any screen to manage it.

 **Tip:** A screen counts as "online" when it sends a heartbeat to the server; if it shows offline, check that its link is open on the device and that the network works.

5 Screen Groups

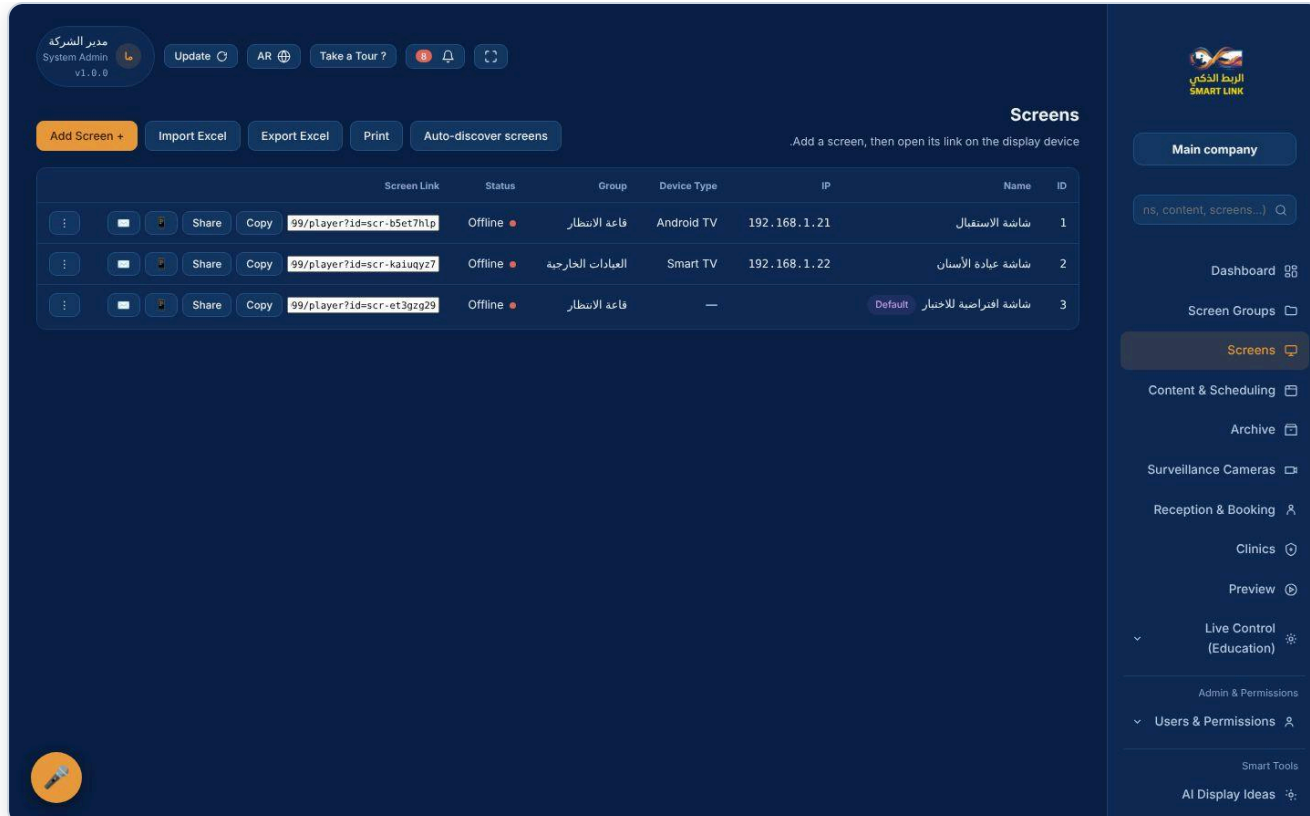
A group holds screens that show the same content, so you add content once and every screen in the group shows it. Create a group per place or purpose (waiting hall, outpatient clinics, cafeteria...).

- 1 Go to "Screen Groups" → "Add".
- 2 Enter a name and an optional note.
- 3 Save, then assign screens to it from the "Screens" page.

You can also link existing content to the group using "Link existing content".

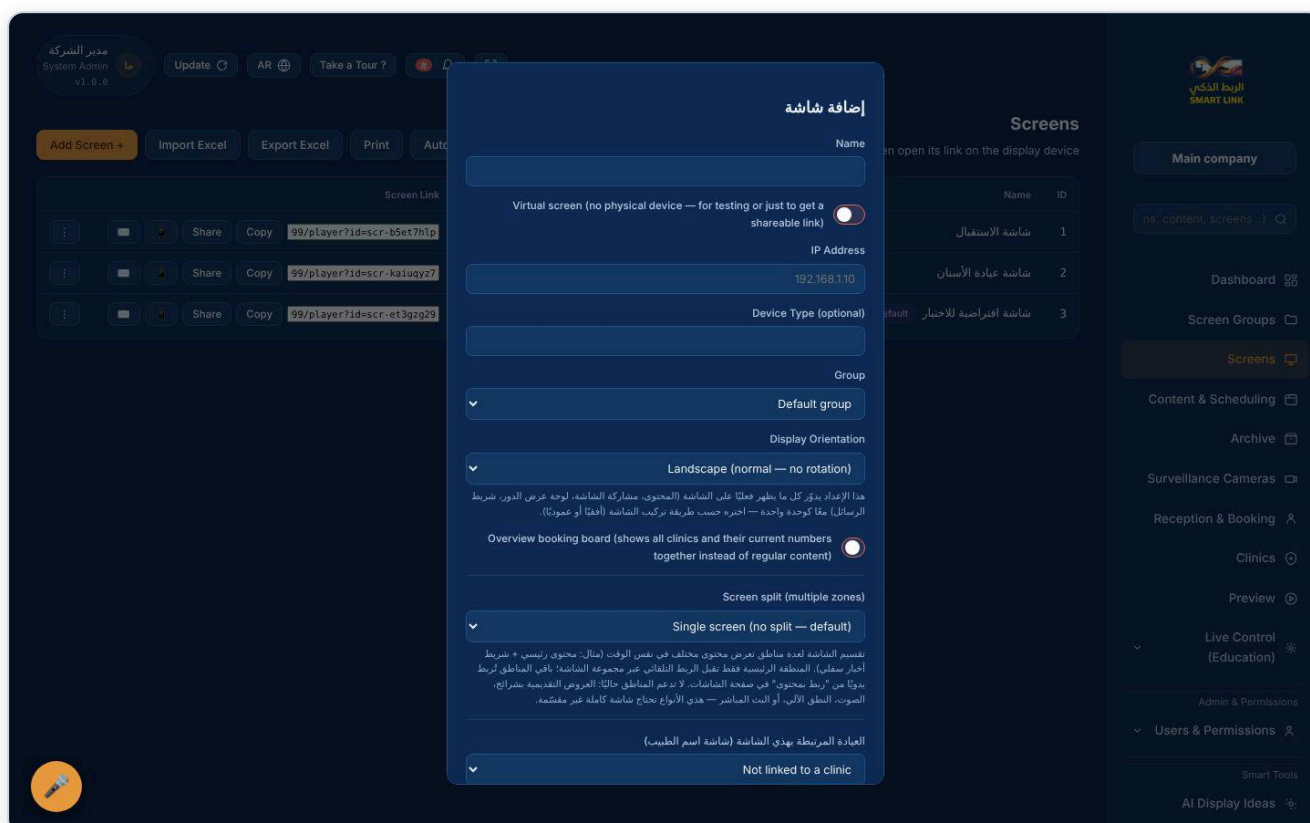
6 Screens

Every screen has its own link (/player?id=...) that you open on the display device. Add the screen here, then open its link on the device.



The Screens page: status, group, device type, link, and share/copy buttons.

Adding a screen



The Add Screen window.

- **Name, IP address, device type** (optional) and **group**.
- **Display orientation:** landscape, portrait 90°, flipped 180°, or 270° — to match how the screen is mounted.
- **Split screen:** single screen, two zones (left/right or top/bottom), main content with a bottom bar, or four equal zones.

- **Virtual screen:** for testing and previewing without real hardware.
- **Link to a clinic:** turns the screen into a doctor/clinic screen showing the current number.
- **News ticker:** RSS/Atom link, ticker title, color and position.
- **Logo, name and photo:** the organization logo and name (and the doctor photo for clinic screens) shown on screen.

Sharing a screen link

The “Share” button gives you a QR code and a ready link — inside your network, or outside it through a temporary hosting link. “Copy” copies the link directly.

More tools

- **Excel import/export** to add many screens at once, and **Print** for the list.
- **Auto-discover screens** on the local network.
- **Diagnosis & remote control** from the three-dot menu beside each screen.
- Use clear, distinct screen names — it makes searching and monitoring easier.

7 Content & Scheduling

Add what appears on screens and decide when. Timing is set on the content itself.

The screenshot displays the 'Content & Scheduling' page in the SMART LINK application. The main area features a 'Content Library' table with the following data:

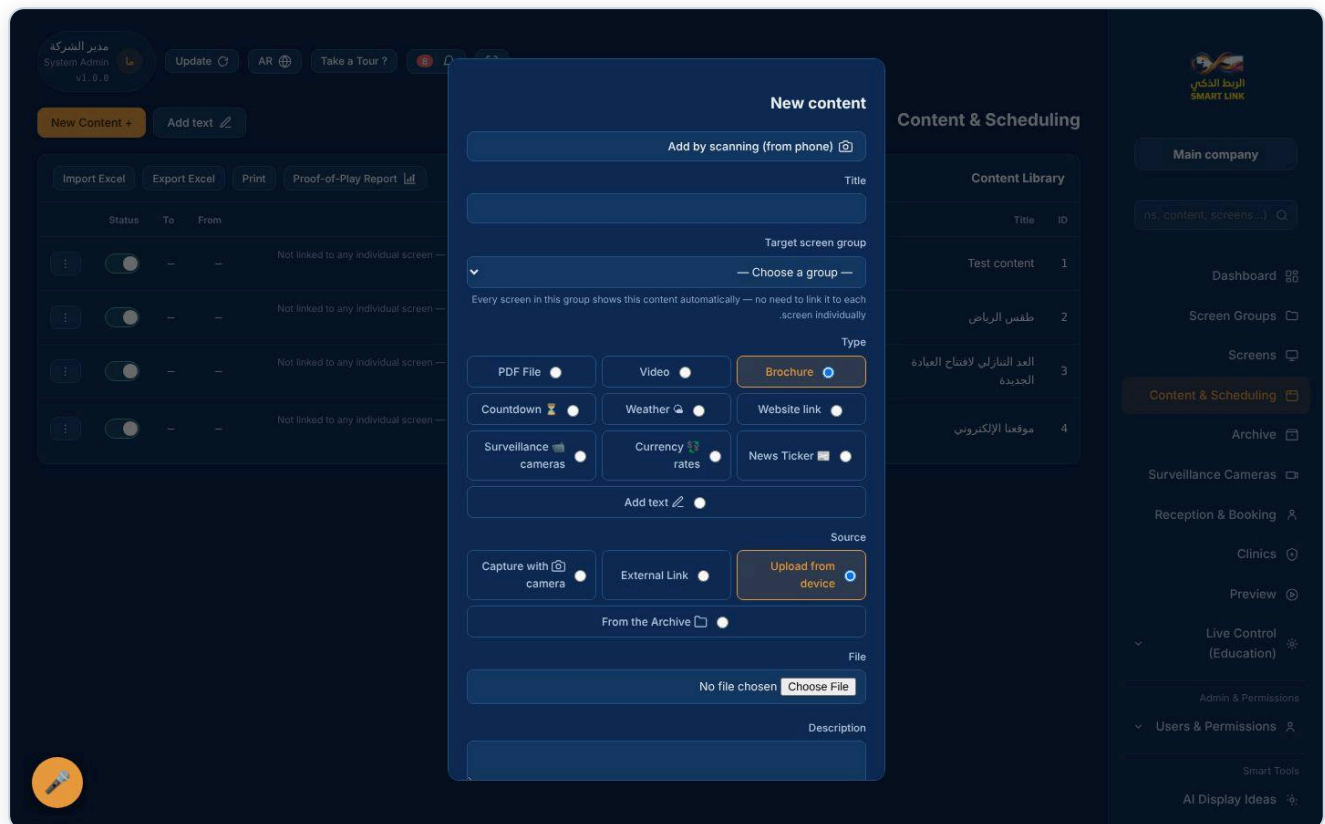
Status	To	From	Target screen	File	Source	Type	Title	ID
Not linked to any individual screen — open the screen you want from the "Screens" page to link it	—	—	—	External Link	Brochure	Test content	1	
Not linked to any individual screen — open the screen you want from the "Screens" page to link it	—	—	—	Uploaded	Brochure	طغص الرياض	2	
Not linked to any individual screen — open the screen you want from the "Screens" page to link it	—	—	—	Uploaded	Brochure	العد التنازلي لافتتاح العيادة الجديدة	3	
Not linked to any individual screen — open the screen you want from the "Screens" page to link it	—	—	—	External Link	Website link	موقعنا الإلكتروني	4	

The right sidebar contains a navigation menu with the following items: Main company, Dashboard, Screen Groups, Screens, Content & Scheduling (highlighted), Archive, Surveillance Cameras, Reception & Booking, Clinics, Preview, Live Control (Education), Admin & Permissions, Users & Permissions, and Smart Tools.

The Content & Scheduling page.

Content types

Type	Use
Image / brochure	Ready-made ads, offers and signs.
Video	Intro and promotional clips (uploaded or from a link).
PDF file	Menus, tables and printed material.
Website link	Show a web page live.
 Weather	Weather for a city you choose, updated automatically.
 Countdown	Count down to a date, with a message afterwards.
News	A news ticker from an RSS/Atom link.
Currencies	Exchange rates against a base currency.
Surveillance cameras	Show a site's cameras (grid, one large camera, or auto-rotate).



The New Content window.

Adding content

- 1 Press “New content” and enter the **title**.
- 2 Choose the **target screen group** (required).
- 3 Choose the **type** and its source (upload a file, a link, pick from the Archive, capture with the camera, or the editor that composes an image from text and a logo).
- 4 Set the **schedule**: start and end date, and the daily start and end time.

5 Choose the **responsible user** for this content (required), then save.

Tip: The daily end time must be after the start time, and the end date after the start date, or saving is refused. Expired content does not appear on screens.

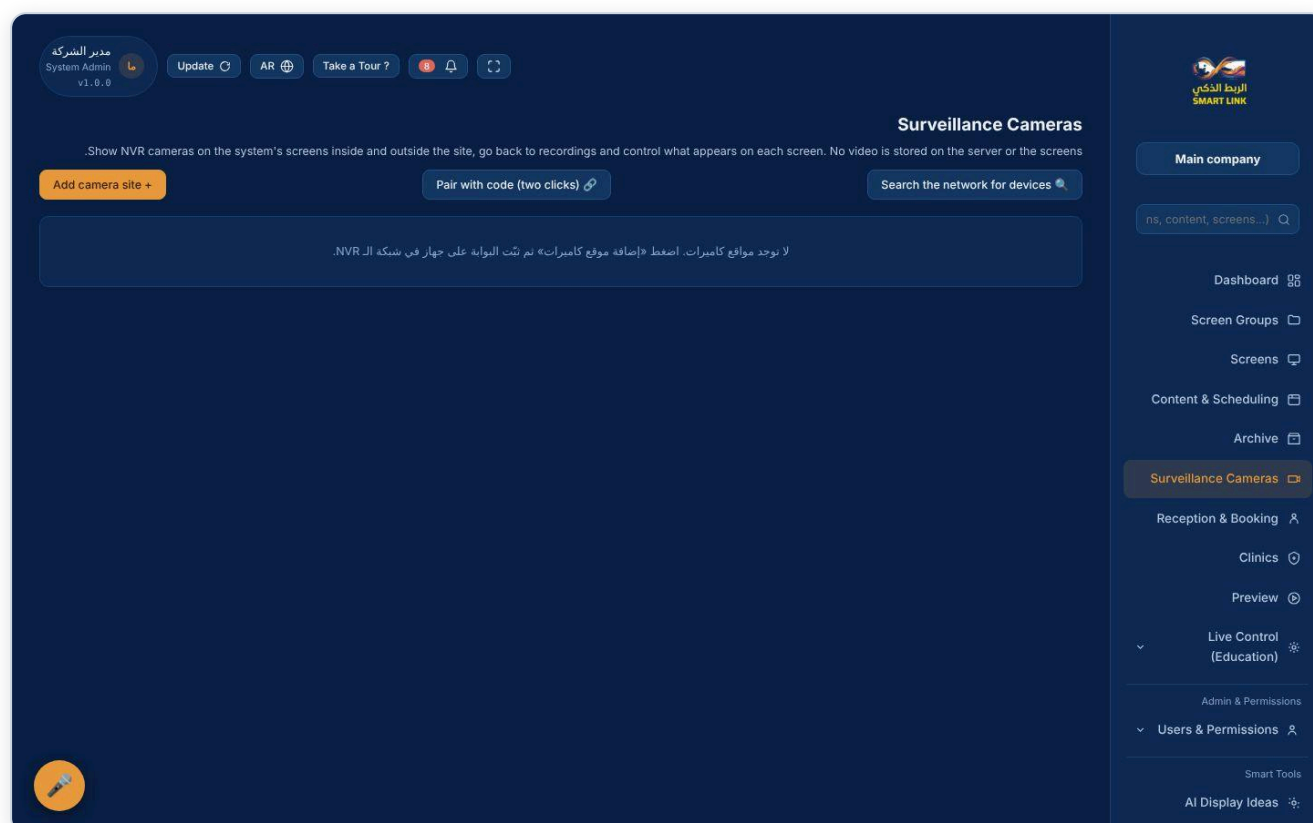
8 Archive

A store for files, links and images you reuse often. When adding new content choose “From archive” instead of uploading again each time — saving both time and space.

- Add an item (file, link or image) and name it.
- Archive items appear as a source option when creating any content.

9 Surveillance Cameras

Show NVR/DVR cameras (all common brands) on system screens and in the dashboard, and go back to recordings, on-site or remotely. **No video is stored on the server or the screens.**



The Surveillance Cameras page.

How it works

A “gateway” (a small program) is installed on an always-on device inside the NVR’s network; it reads the cameras, converts them to a browser-friendly format and relays them to the system. Suitable devices: a mini PC, a Raspberry Pi 4, an old computer, or an Android box with a wired network port.

Adding and pairing a site

- 1 Press "Add camera site" and enter the name, device brand, address and login (stored encrypted).
- 2 Pair the gateway: the easiest is "🔗 Pair with code" (a short code you enter in the gateway installer), or download the installer file and run it on the device.
- 3 The site shows as "online" and its cameras appear. Use "🔍 Search the network for devices" to let the system discover NVRs and cameras and their brand automatically.

Viewing & control

- **Live view:** a grid of all cameras, one large camera, or rotation. Pick a camera from the list, or press "⏏ Full screen" (landscape by default on phones; the ↺ button toggles landscape/portrait).
- **Quality:** the HD button shows the higher-resolution stream; the actual resolution appears in the corner.
- **Buttons:** hidden by default with only the eye button left; press it to reveal them.
- **Zoom:** magnify and pan an area of the picture.
- **⏮ Recordings:** go back in time, and press "⏮ Clip" to cut up to 5 minutes and download it to your device (deleted from the server after an hour).
- **Audio:** available for cameras that support it.

Showing cameras on a screen

Create content of type "Surveillance cameras", choose the site, cameras and layout, and target a screen group. You can also use the send button to control what each screen shows.

Reliability

- Install a **standby gateway** (a second device) for the same site so streaming continues if the first fails.
- The gateway prevents the device from sleeping and automatically lowers quality if the CPU cannot keep up with transcoding.
- For best performance set the NVR's "sub stream" to H.264 to avoid transcoding.

 **Tip:** Every company has a "camera point" account (role "Camera"): installed on a device in each network, it can only use cameras, gateway settings and live control/broadcast. Change its password after setup.

10 Reception & Booking

For clinic and medical-center workflows: register a patient and print a booking ticket with an automatic number that is instantly broadcast to the clinic screen with a voice announcement.

The Reception & Booking page.

- 1 Search the patient by phone number if already registered, or enter the full details.
- 2 Choose the clinic, then save to issue the ticket with its number (clinic letter + number).
- 3 Print the ticket (set the printer in the print settings).

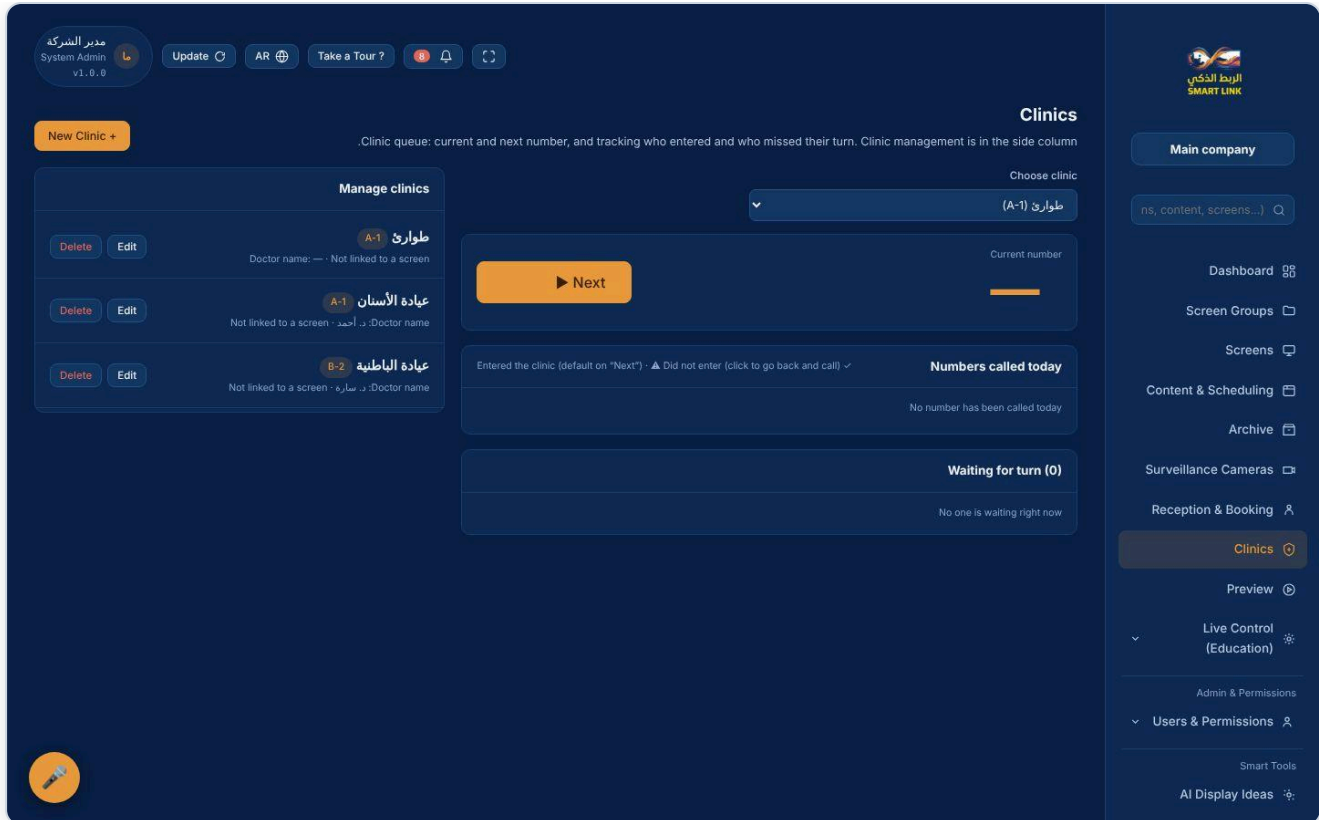
QR self-registration

Enable a QR code so visitors fill in their own details from their phone. Requests arrive as “pending approval”; you review and approve or reject them. Notifications alert you to new requests.

- The phone number must be exactly ten digits; Arabic-Indic digits are accepted.
- You can add insurance companies and link them to bookings.

11 Clinics

Add each clinic with its name, number, letter (shown with the booking number) and doctor name, and link it to the clinic screen and to the doctor’s account (optional, so their clinic queue opens automatically).



The Clinics page and waiting queue.

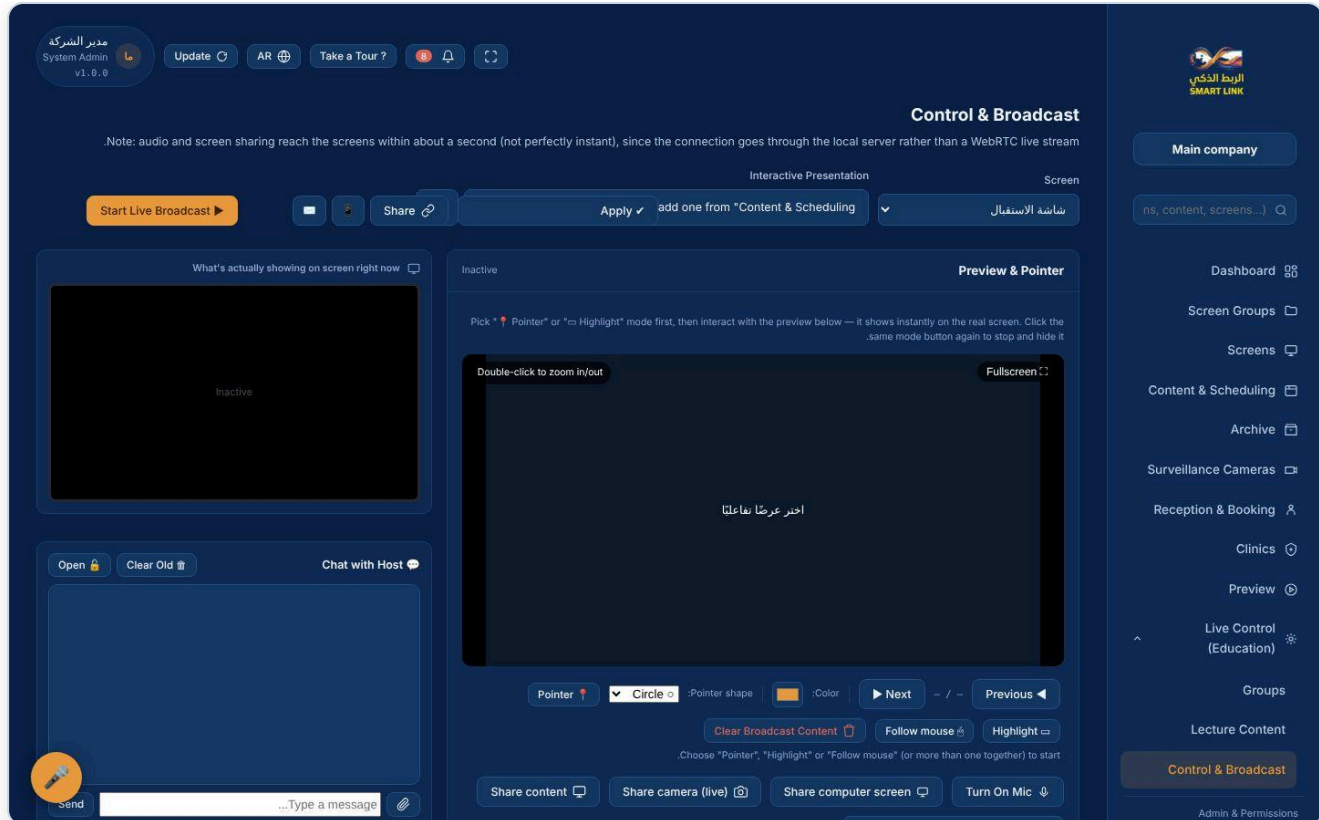
- **Next:** calls the next patient and broadcasts the number to the screens with a voice announcement.
- **Recall:** call a previous number again.
- **Statuses:** track who entered and who missed their turn, and edit a ticket when needed.
- **Overview board:** a screen showing all clinics and their turns together.

12 Display Preview

Shows what your screens are displaying right now, from the dashboard, so you can verify content and scheduling without going to the device. Each screen opens in a card and can be enlarged to full screen.

13 Live Control & Broadcast (Education / Simulation)

For live broadcasting to screens: lectures, interactive presentations, sharing your screen and voice, with chat, pointer and highlighting the other side sees instantly. The pointer and highlight stay where you left them after you stop and restart the broadcast.



The Live Control & Broadcast page.

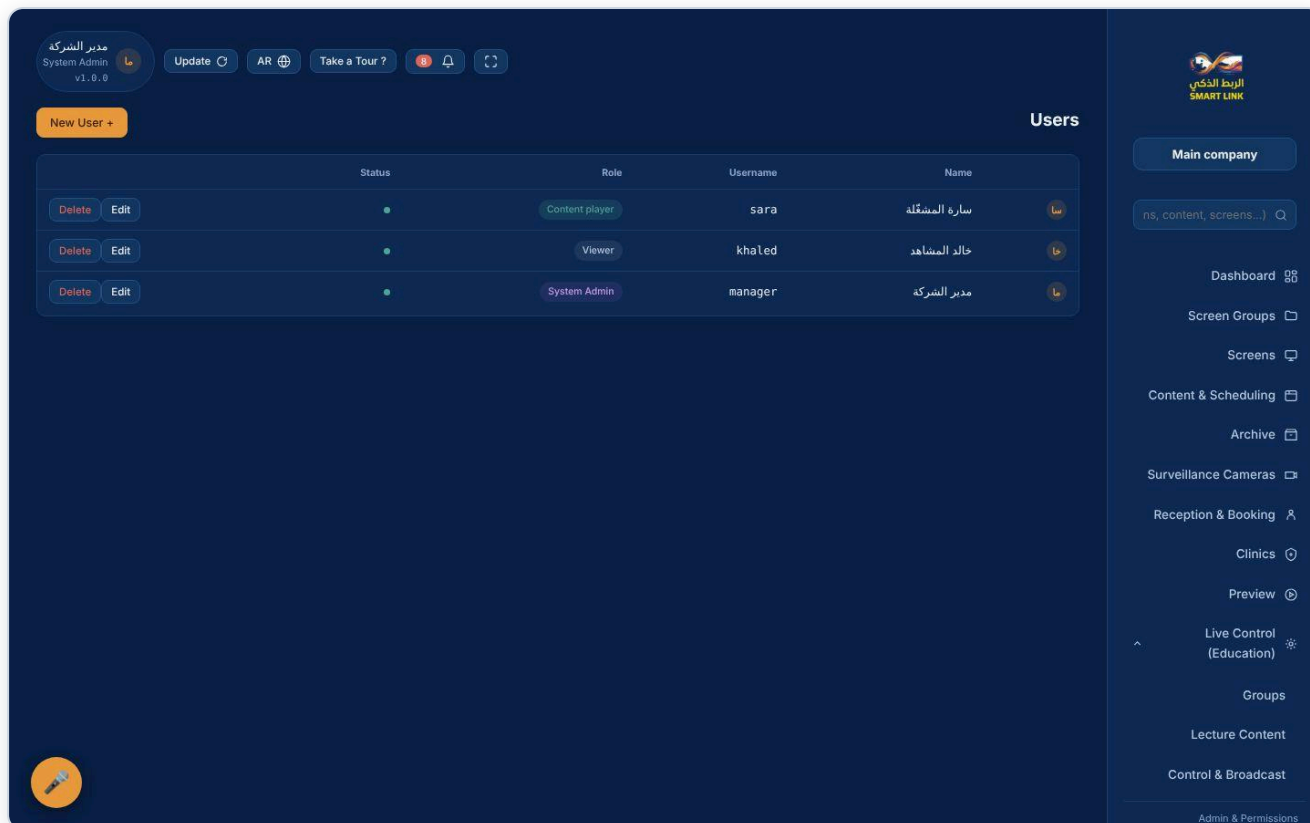
- 1 Create a **group** from "Groups" to organize your lectures.
- 2 Add slides, PDF files or presentations from "Lecture content".
- 3 From "Live Control & Broadcast" choose the screen and start; control slides, pointer, highlighting and chat.

Jitsi Meet broadcast (online teaching)

From "Lecture content" → new content → "Jitsi Meet Broadcast": the screen auto-joins the room (muted, no camera) and shows what the teacher or students broadcast. "Share meeting link (QR)" gives a code and link to join from any device. A Jitsi server must be enabled by the system administrator.

▲ Note: Audio and screen sharing reach the screens in about a second — not perfectly instant — because the connection goes through the server rather than direct WebRTC.

14 Users, Roles & Permissions



The Users page.

Roles

Role	Description
System admin	All sections in their company; manages users and permissions.
Content operator	Adds content, screens and clinics as allowed by the permissions table.
Viewer	Read-only, no editing.
Camera	NVR link point: cameras, gateway settings and live control/broadcast only.

Adding a user

- 1 "Users" → "Add".
- 2 Enter the name, username and a temporary password, and choose the role (and optionally a group).
- 3 They are asked to change the password at first login.

User groups

Organize users in groups (for example: Teachers) and link each group to its own content.

The permissions table

Viewer	Content player	System Admin	Permission
☒	☒	☒	Dashboard
☐	☐	☒	Screen Groups
☐	☐	☒	Screens
☐	☒	☒	Content & Scheduling
☒	☒	☒	Preview
☐	☒	☒	Groups (education/simulation)
☐	☒	☒	Lecture Content
☐	☒	☒	Control & Broadcast
☐	☐	☒	Companies
☐	☐	☒	Users
☐	☐	☒	User Groups
☐	☐	☒	Permissions
☐	☐	☒	Backup
☐	☒	☒	AI Display Ideas
☐	☐	☒	Voice Library (TTS)

The permissions table: click any cell to grant or revoke a permission.

For each role you decide the allowed sections and actions, including viewing and managing cameras and gateway settings. An admin can also give an **individual exception** to one user without changing their role.

Tip: Follow the principle of least privilege: give viewers read-only access, and "System admin" only to those who need full management.

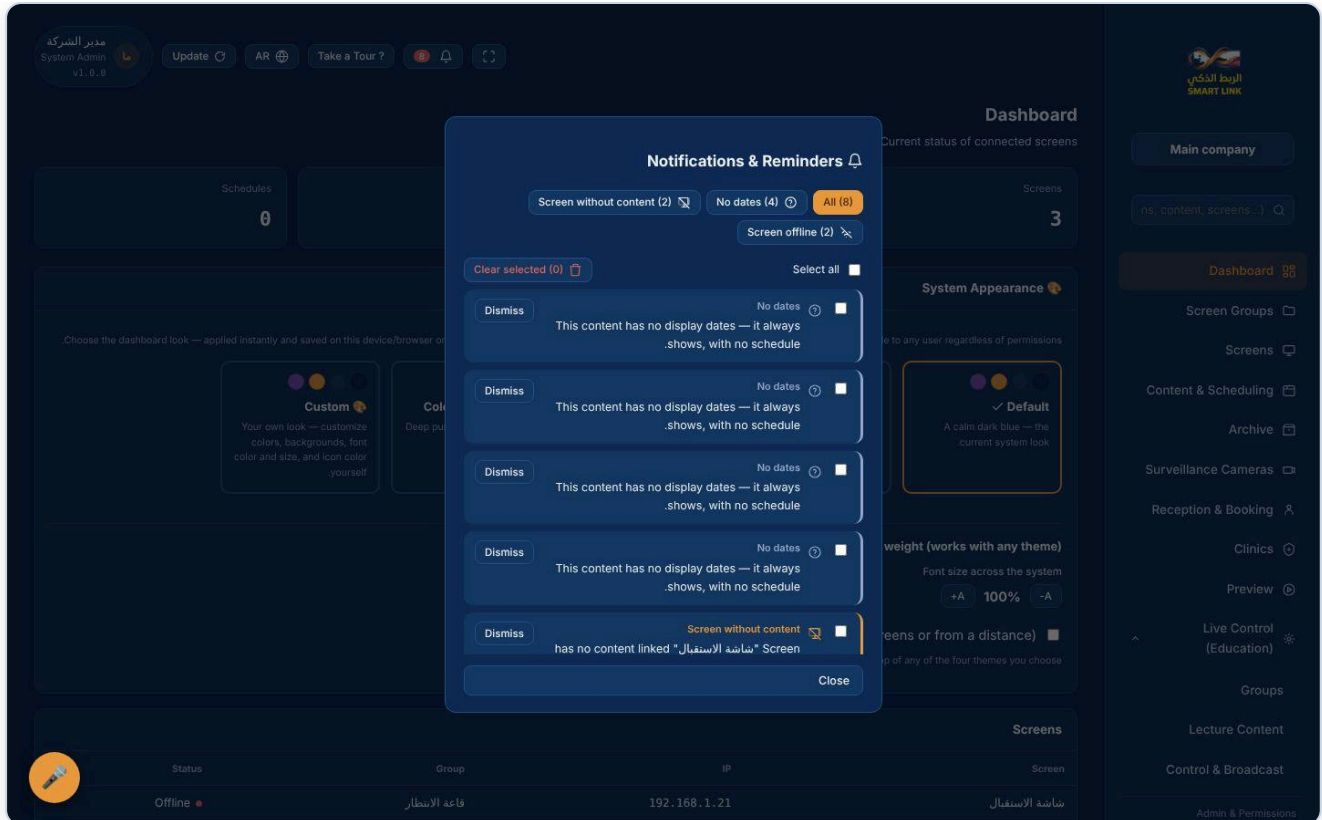
15 Smart Tools

- **AI display ideas:** suggests design and content ideas for your displays.
- **Voice library (text to speech):** type text, choose the group and country, and get a ready voice-over you can add as content right away.

16 Notifications, Search & Voice Commands

Notifications (🔔)

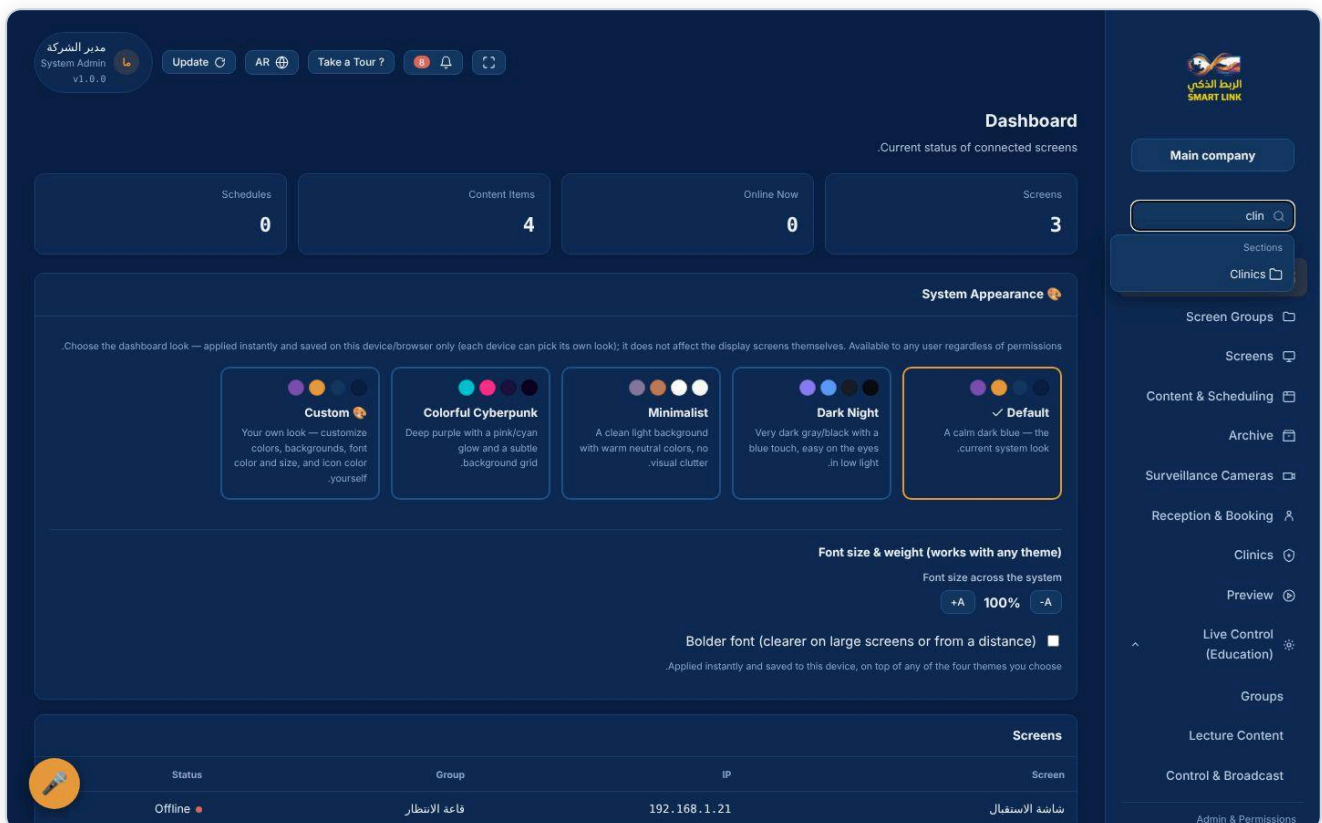
The bell alerts you to upcoming or ending broadcasts, screens with no content or offline, registrations pending review, active Jitsi broadcasts, an offline camera gateway or new devices it discovered. You can dismiss any notification.



The notifications list.

System search

The “Search the system” box searches sections, content, screens, clinics, groups, camera sites and their devices. It understands words like Jitsi and notifications.



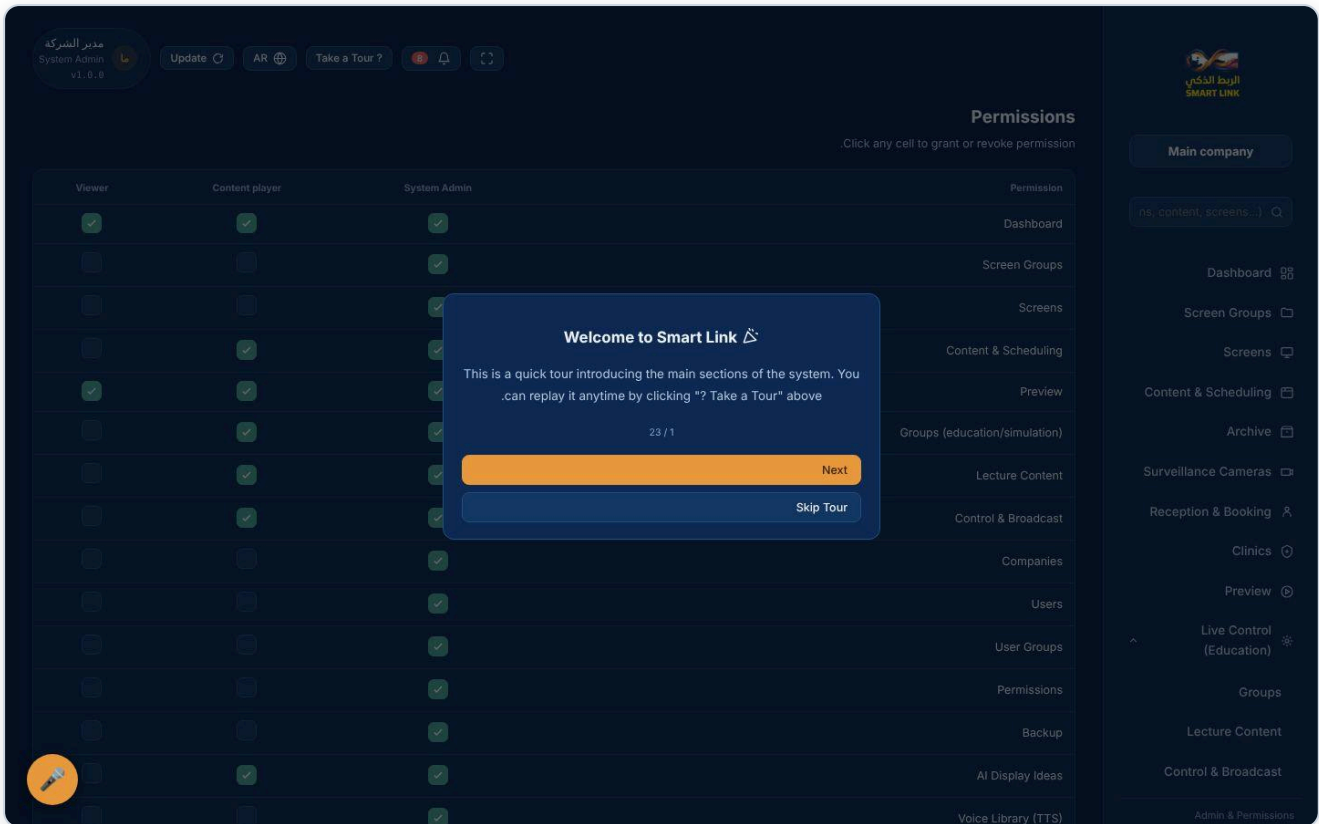
Search results.

Voice commands (🎤)

The floating microphone button understands commands such as “search for ...” or “open ...” and takes you straight to the section.

17 The Tour & This Guide

"Take a Tour" in the top bar explains the system step by step, and shows automatically the first time. In the tour window you will find **Download** and **View** buttons for this guide as a PDF in your current interface language (Arabic or English).



The tour window.

18 Tips & Quick Fixes

Problem	Solution
Screen shows "offline"	Make sure the screen link is open on the device and the network works, then refresh the page on the device.
Content does not appear	Check the target group, the start and end dates, and the daily display time.
Picture is rotated or in the wrong direction	Change "Display orientation" in the screen settings.
Camera is choppy or frozen	Set the NVR sub stream to H.264, use a wired network cable on the gateway device, and make sure the gateway is up to date.
Forgot password	A system admin resets it from "Users".
Some sections are missing	Sections follow your role's permissions; ask an admin to adjust them in "Permissions".
Changes do not show	Press "Update" in the top bar.

For help, choose "📞 Contact support" from your account menu, or open "Take a Tour" anytime.