

Indota Collaborative Interactive Smart Classroom

Solution Overview and Introduction

1. Indota Introduction

As international education market demands increased in 2018, the Haijie Group in China set up a new organization for business development, support and warehousing outside China. It was rolled out this effort under the brand name: "indota" with Indota b.v. in the Netherlands as a key entry into another hemisphere of the globe. With globalization and the growth of intelligent devices in mind, Haijie launched the smart classroom solutions in China starting 2014. Before then, it already had key international partnerships since 2008 and understood the quality demands very well.

"Indota" introduces rich classroom solutions that it first developed for the local market and then adapted for international use. It provides intelligent, flexible, and easy-to-use products for any teaching environment. Indota goes beyond traditional classroom furniture and introduces intelligence and clever IoT tools and creates the future for industry users. As a manufacturer of smart classrooms, Indota commits to continuous updates to its product lines and devotes significant R&D to assure leading and innovative products and complete classroom solutions are ready for implementation anywhere in the world.

Haijie Group launched "indota" to bring solutions to global teaching and training markets and will work with channel vendors to build a complete delivery strategy: covering product solutions, distribution channels and technical services, with the mission of providing professional, leading and innovative services to our partners and industry users.

2. Solution Overview

In Indota we divide classroom solutions in 3 categories, which are:

1. dynamic smart classroom,
2. multi-group interactive smart classroom and
3. collaborative interactive smart classroom.

The Indota Smart Classroom uses modern multimedia technology to create an ideal campus environment where "Students can find and meet good teachers and watch discussions everywhere on campus".

Diverse teaching scenarios: The tables and chairs are movable, collaborative and multi-type. Students can be grouped into different size groups according what suits a course best in any discipline, either by the ease of regrouping the students within the classroom or by having different classrooms designed to the most relevant types of solutions.

Smart teaching environment: Teachers can use a variety of media such as text, images, sounds and animations, etc. to vividly show the formation and application of knowledge, to stimulate the senses of students and to let students "participate" in the classroom. Information flows between any students within a group and between the groups and the whole class using the individual computer tool, linked to the groups own displays and to the class as a whole. This transforms passive acceptance of knowledge into active discussion and sharing of knowledge.

It changes the role of students: They can take the initiative of learning the best way

3. Solution Introduction

3.1. Main Products of Collaborative Interactive Smart Classroom



The collaborative interactive smart classroom includes collaborative tables and chairs, and interactive systems to support a flexible learning and research classroom.

The important product in the solution (Standard Configuration): The Collaborative Table shape and color combinations can be customized according to the needs of the school. It is not only convenient for individual learning, but also suitable for group discussions. It meets the needs of different disciplines, types of grouping and teachings. A variety of teaching modes are offered promoting interactive learning between teachers and students. A default set of tables form a hexagon for 6 students in group discussions. Or, link smaller sets of tables or form meandering lines of tables.

3.1.2 The Solution Significance and Problems to Be Solved

In the collaborative interactive smart classroom, teachers and students can splice tables and chairs at will and design the classroom layout to build exclusive small class groups for discussions. Flexibility of the furniture enables teachers to choose the best layout that matches the teaching method they apply. Good for individual learning, and encouraging group discussions in any discipline and any types of research and teaching.

3.2. Individual Product Information

3.2.1 Collaborative Table



Product Specifications:

Overall dimensions: height: 775 mm; diameter: 1600 mm; short side: 252 mm * arc edge: 785 mm.

Book frame: 105 * 250 mm.

Desktop material: New laminate board. Plate thickness: ≥ 12 mm. Has high elastic modulus, tensile strength, flexural strength and impact resistance. The table is easy to clean, waterproof and moisture-proof and is very stable. Relevant European certification bodies classify the material as the one with the highest fire protection level among organic materials. Laminate board is safe and hygienic; it does not release toxic and corrosive gases

Color: Desktop standard colors are green, blue, white, and yellow.

Connection link locks: High-quality die-cast aluminum material, the die-casting mold is a single entity. The surface of the material has undergone anti-corrosion oxidation treatment and high temperature coating treatment of pure epoxy plastic powder, which has strong corrosion resistance load bearing.

Tube frame: High-quality steel material. The surface has undergone anti-corrosion oxidation treatment and high temperature coating treatment of pure epoxy resin powder, with strong corrosion resistance and load bearing.

Basket storage: It is made of high-quality steel profiles, bent and formed. The surface of the material has undergone anti-corrosion oxidation treatment and high temperature curing treatment of pure epoxy plastic powder, which has strong corrosion resistance and load bearing. Foldable storage and stylish appearance.

Casters: 4 casters. PA nylon frame + PU soft rubber roller. PA guarantees structural strength and PU soft rubber enables silent rolling.

Installation: High-strength bolts and back nuts ensure a firm and reliable table after the assembly.

Standards: Materials, processes, overall safety, surface physical and chemical properties, mechanical properties and other requirement meet relevant national standards.

3.2.2 Intelligent Lifting Table



Product Specifications

Size: Tabletop 1300 * 700mm(L*W); Bezel Length: 1300mm; Width: 420mm.

One-button lift: The height can be adjusted at 700-1200mm with 40mm/s lifting speed. The adjustment is silent and stable. High memory of one-touch restoration of the preferred height. There are 3 levels of high-memory keys for easy use.

Material:

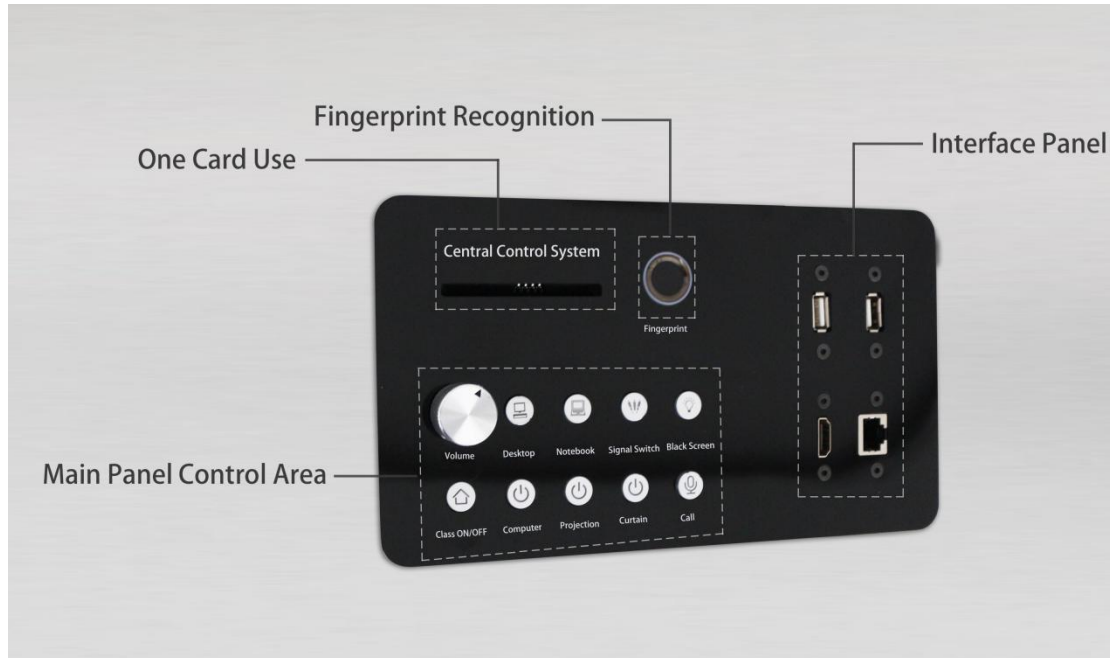
Table legs are made of high-quality steel. The surface has undergone anti-corrosion oxidation treatment and high temperature curing treatment of pure epoxy resin powder with strong corrosion resistance and load bearing. It is added beveled arc design to prevent kick injury. 120KG safe load-bearing and easy to lift.

Table top is melamine/laminate and board of thickness: ≥ 18 mm. Tabletop is equipped with a professional monitor stand, which can be stretched back and forth to adjust the viewing distance. It is possible to lift up and down, which helps to relieve cervical fatigue. You can also adjust the tilt and the elevation as you like.

Wires: Tank chain at the bottom for easy storage of wires.

3.2.3 Intelligent Network Control System

Embedded design. Central controller can be embedded in lectern / table and it is equipped with multiple boot modes such as fingerprint, and IC card. Remote power on and off are available.



Simple switch on/off. When the user inserts the IC card device will start immediately. The preprogrammed multimedia teaching card controls the automatic opening of the control door lock, projector, computer etc. A screen may automatically lower and the system enters the set teaching state instantly; Simple device switching operation with sound and image in one key. Once the card is removed, the system will shut down automatically and all the equipment will be restored to a safe state.

Intelligent device management.

The central controller allows remote management to add intelligence:

1. **Remotely control the actions of the equipment.** Teachers can remotely control the actions of various equipment in the classroom and also can detect the working status and the settings of the classroom equipment.
2. **Device integrated intercom button.** When there is a problem with the classroom equipment or you need help, you can request a call by touching the intercom button to ask for assistance.
3. **Manually input or import a semester schedule.** The system will automatically manage the equipment in each classroom according to the schedule. The time switch on/off of the equipment in the classroom can be arranged according to the schedule to determine unattended equipment and it frees the teachers from responsibilities unrelated to teaching and therefore, improve their teaching efficiency.
4. **View the relevant information in all computer hardware at will** through asset management in network software.
5. **Remote control computer and screen takeover.** Monitor any classroom computer screen by IT support functions and remotely operate mouse and keyboard to control the classroom computer.
6. **Text message broadcast.** Send the text information in the form of rolling subtitles to the top of the computer screen in a designated classroom.

3.2.4 Training Chair



Product Specifications:

Size: 890 * 440 * 450 mm (chair height * seat width * back width).

Seat Cushion: A shaped cotton seat cushion with a seat shell.

Backrest Mesh: High-quality imported mesh fabric.

PP handrail, silver square tube spray stand, 1.5 mm thick tube wall electrostatic spray surface treatment.

Optional: Caster / writing pad.

Product Advantages: It can be folded and stored without taking it apart.

3.2.5 HJ-CM26 Mobile Tablet & Laptop Charging Cart



Product Specifications

Dimensions: 660x580x953mm (without casters – dimensions for 36 bay cart).

Compatibility: Laptop & Tablet

Material: Steel + ABS. The plates on both sides of the charging cabinet are made of ABS material which provides an insulated environment to avoid electric shock.

Charging Type: AC or USB charge.

Casters: 4 inch mute casters with brake

Lock: 2 sides lock handles with key lock.

External option: External metal switch with indicator light and power cord management frame

Device Trays: ABS plastic separator with neat cable management integrated in the edges of the separators. The tray is tilted inward to prevent the equipment from slipping out. The separator distances are adjustable.

Power management system: Integrated leakage protection, overload protection, time control management and constant power supply. Multiple charging management modes (timer, cycle, constant, etc.) are available and can be set and managed.

Cooling: Multiple air flow holes for natural heat dissipation

Optional: Ultra-quiet cooling fan, timer and temperature control

4. Classroom configuration list

Collaborative Interactive Smart Classroom					
No.	Product Name	QTY	Unit	Brand	Note
1	Collaborative Table	3+	Set	Indota	Equipped according to the number of students
2	Intelligent Network Control System	1	Set	Indota	
3	Intelligent Lifting Table	1	PC	Indota	
4	Training Chair	18+	PC	Indota	Equipped according to the number of students
5	Intelligent Blackboard	1	PC	Indota	Optional
6	Touch All-in-one PC	3+	PC	Indota	Optional
7	HJ-CM26 Tablet & Laptop Charging Cart	1	PC	Indota	Standard Configuration