

## Indota Dynamic Smart Classroom

### Solution Overview and Introduction

#### 1. Indota Introduction

Indota originated in Europe and created global innovative smart classroom solutions. As a provider of smart classroom solutions, Indota commits to continuous improvements. It has devoted significant R&D expenditure to this already and will continue to do so to bring new rich classroom solutions. We, Indota, serve the global teaching and training market.

"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.

#### 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 Dynamic Smart Classroom



The dynamic smart classroom is composed of interactive chairs, interactive systems and traditional classroom display systems, control systems, sound reinforcement systems and environmental adaptations. A logical next step in transforming the classroom.

**The important product in the solution (Standard Configuration):**

**The Smart Interactive Roll-about Chair** has high mobility and satisfies ergonomic principles. The writing pad can be adjusted and students of all sizes can use it

comfortably. The shape and color of the collaborative tables can be customized according to the needs of the school to promote interactive learning between teachers and students.

### 3.1.2 The Solution Significance and Problems to Be Solved

It is the catalyst to a new dynamic way of teaching as it easily allows configuration changes of the class to switch quickly between different teaching modes: sitting in traditional rows, change to circles, squares, small groups to further methods like blended teaching, small class teaching, flipped classroom teaching and exploratory teaching. This solution is to enhance classroom interactivity and engagement, so that the learning process can become more of a social, interactive and experiential process rather than a static approach to the individual in traditional methods.

## 3.2. Individual Product Information

### 3.2.1 Smart Rotating Interactive Chairs with Writing Pad

The smart rotating chairs with writing pad are designed to support the smart classroom and designed to perfect ergonomic principles.

#### Highlights of the product:

- The chairs are highly mobile and can easily match the various layouts of the classroom and therefore, they enhance classroom interaction and fun.
- A water cup holder on the lower right side of the panel is convenient and practical.
- Suitable for general classrooms, graduate classrooms, training rooms, laboratories, academic exchange centers, offices and other similar occasions.

#### Product Specifications:

**Material:** ABS engineering flame retardant plastic, nylon and other materials are used for injection molding.

**Rotation angle:** The rotation angle of the pad and display bracket is  $\geq 90^\circ$  and the rotation angle of the panel is  $\geq 75^\circ$

**Panel size:** 560 \* 310 mm

**Panel bearing:** 30kg  $\pm$  2kg. The interactive chair with an overall load of 100kg  $\pm$  5kg.

**Casters:** 6 swivel casters at the bottom

**Base:** The bottom of the square base is more comfortable as a foot rest and it can be used to store bags or other items to save space.



### 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:

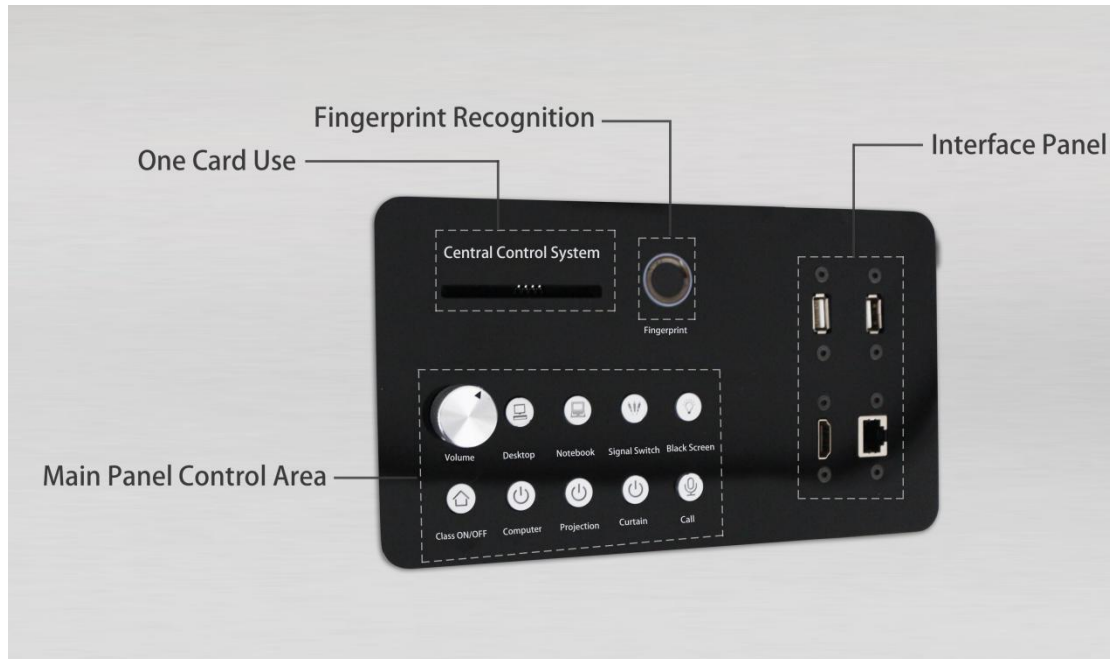
**Table legs** are made of high-quality steel. The surface has undergone anti-corrosion oxidation treatment and high temperature curing treatment of pure epoxy resin powder with strong corrosion resistance and load bearing. It is added beveled arc design to prevent kick injury. 120KG safe load-bearing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

**Table top** is melamine/laminate and board of thickness:  $\geq 18$ 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 a lectern / table and it is equipped with multiple boot modes such as fingerprint, and IC card. Remote power on and off are also available.



**Simple switch on/off.** When the user inserts the IC card, device will start immediately. A multimedia teaching card can realize the automatic opening of the control door lock, projector, computer etc. The screen automatically lowers and the system enters the multimedia 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.** Remote management of the network of monitors in a classroom to individual, group level and classroom level functions.

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 liberalizes the teachers from responsibilities unrelated to teaching and therefore improves 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 its mouse and keyboard to control the classroom computer.
6. **Text message broadcasting.** Send the text information in the form of rolling subtitles to the top of the computer screen in the designated classroom.

### 3.2.4 HJ-CM26 Mobile Tablet & Laptop Charging Cart

#### 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**

Dynamic Smart Classroom					
No.	Product Name	QTY	Unit	Brand	Note
1	Smart Interactive Chair	20+	PC	Indota	Equipped according to the number of students
2	Intelligent Network Control System	1	Set	Indota	
3	Intelligent Lifting Table	1	PC	Indota	
4	Intelligent Blackboard	1	PC	Indota	Optional
5	Touch All-in-one PC	3+	PC	Indota	Optional