



# KOGA

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TOUCH THE DREAM

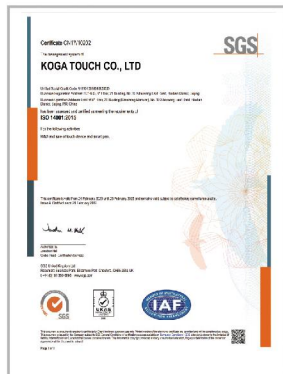
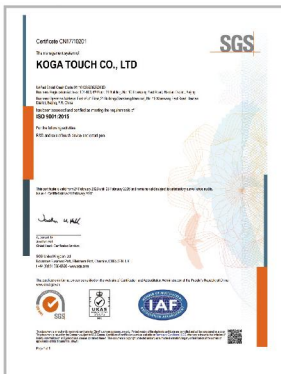
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# KOGA TOUCH

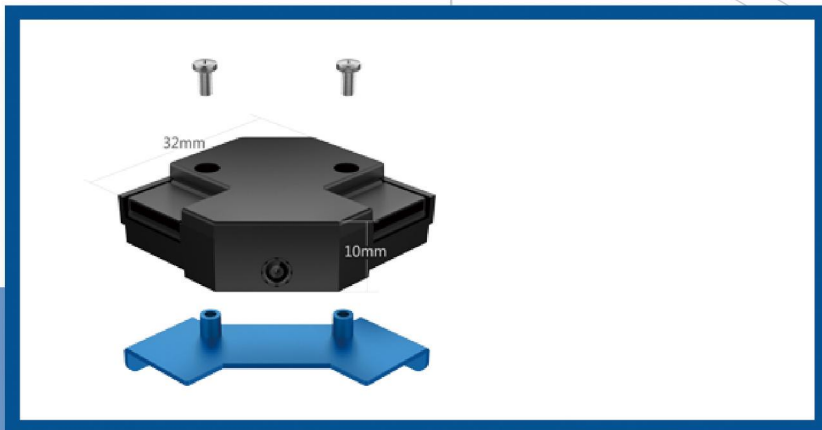
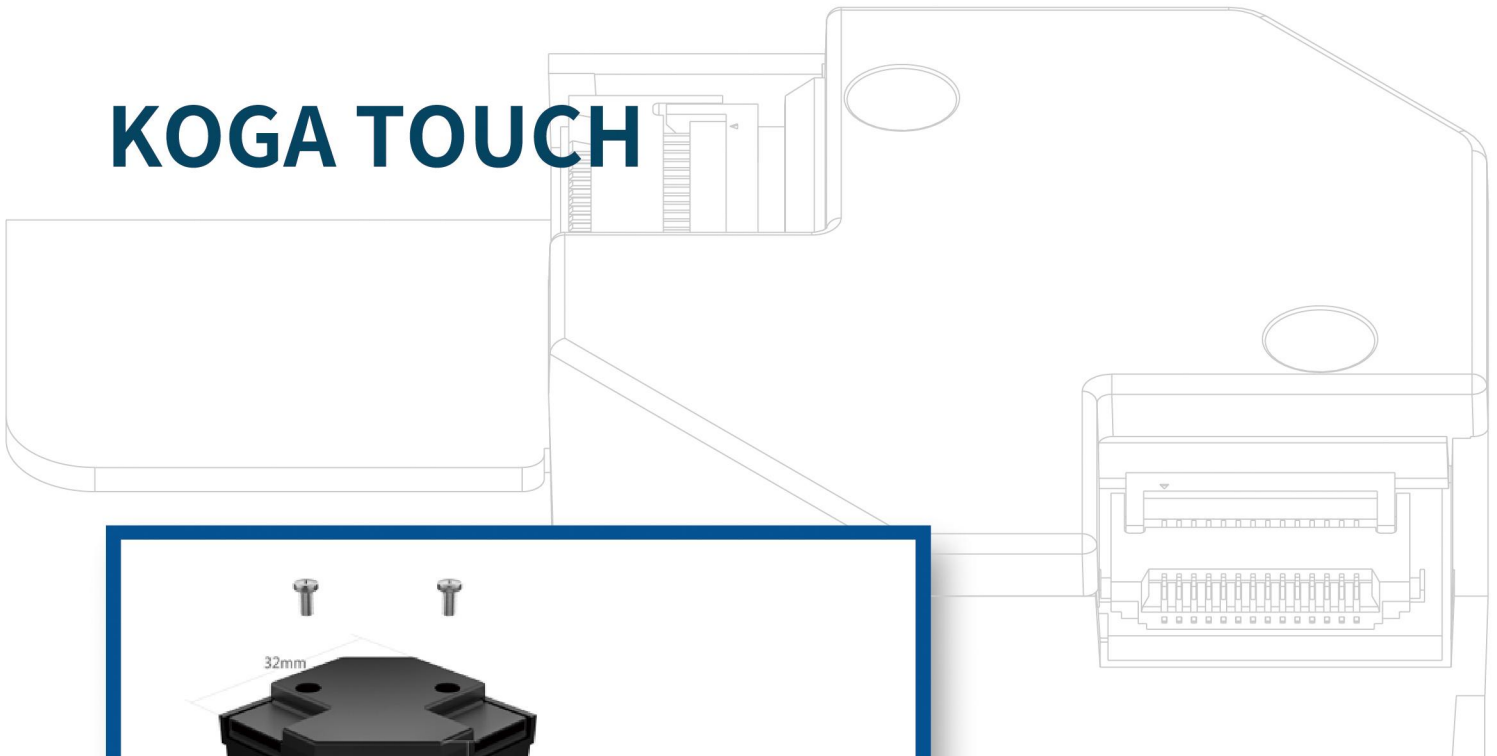


## OUR STORY

KOGA TOUCH CO.,LTD was registered in 2012. KOGA is well-known for its strong R&D strength in the industry. As of March 2023, we have 34 product trademarks in the smart interactive industry, 55 related patents, including 12 invention patents. KOGA strictly manages in accordance with ISO9001, ISO14001 systems and the norms of listed companies.



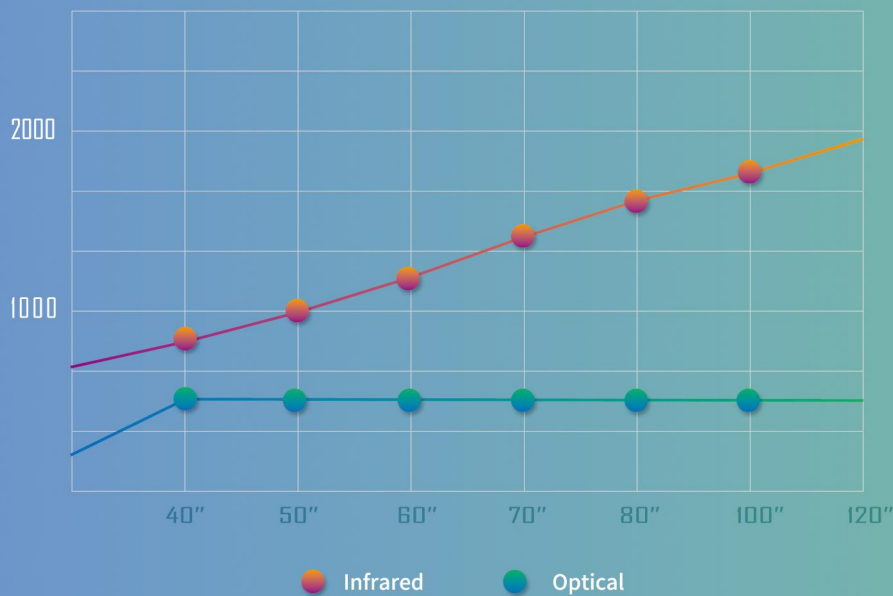
# KOGA TOUCH



## M2W/M4W

MxW series optical modules are designed for interactive whiteboards and large touch panel displays. It has the characteristics of compact design, dust prevention, support for multi-person writing and extended service life. It's designed for use in enterprise, consumer, and education products.

### Cost Comparison



## PARAMETERS

Two Modules - M2W  
 Optical Touch Sensor Module  
 Sampling Rate: 120 fps  
 Two touch points  
 Touch Accuracy:  $\pm 3.0\text{mm}$   
 Response Time:  $\approx 8\text{ms}$   
 Support Size: 55"~110"

Four Modules - M4W  
 Optical Touch Sensor Module  
 Sampling Rate: 120 fps  
 Ten touch points  
 Touch Accuracy:  $\pm 3.0\text{mm}$   
 Response Time:  $\approx 8\text{ms}$   
 Support Size: 55"~110"

# IR/P-CAP SMART PENS

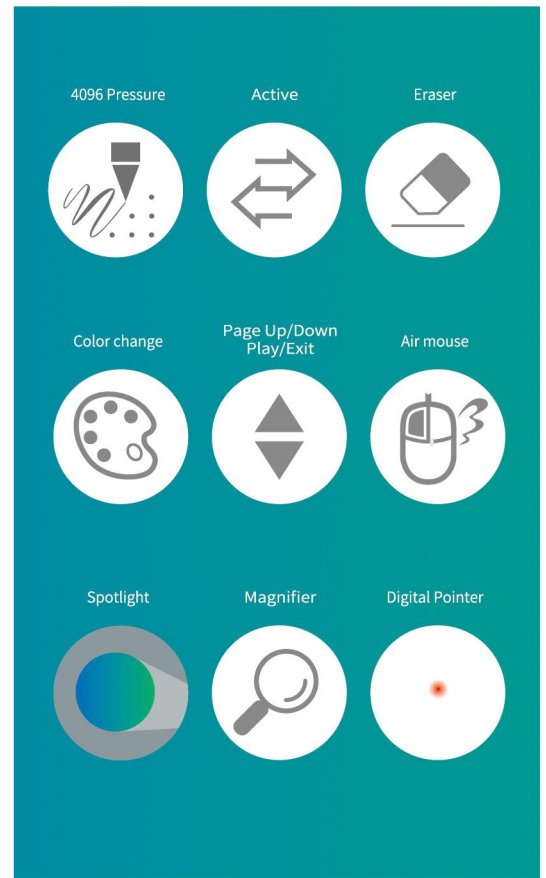
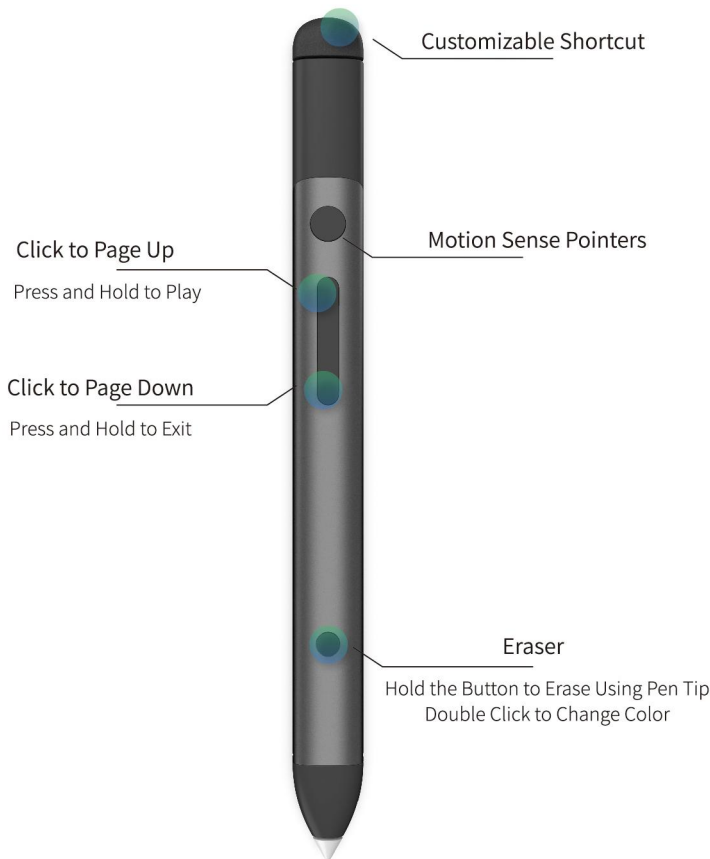


## Specifications

| Items                        | Parameters                                  |
|------------------------------|---|
| Pen Body Weight              | 20g±1g                                      |
| Cap+Wireless Receiver Weight | 4g  |
| Pen Material                 | Outer shell: Aluminum                       |
|                              | Other Part: PC+ABS                          |
| Active Pen Tip Force         | Nib: POM                                    |
|                              | <10g  |
| Maximum Pen Tip Force        | 350~400g                                    |
| Power Supply                 | Li-on battery 120mAh/3.7V                   |
| Effective Distance           | ≤10m  |
| USB Type-C Charging          | 5V/110mA                                    |
| OS Supported                 | Windows7 SP1 or above, Android 6.0 or above |
| Certificate                  | SRRC, CE, FCC, ROHS                         |

# PRODUCT INTRODUCTION Write As Nature

KOGA IR/P-Cap smart pens are widely used on medium and large sized infrared or capacitive touch screens of various brands. Our smart pen supports 4096 levels of pressure sensitivity, which can help users express original handwriting on the touch screen. In addition, it also supports PowerPoint slideshow hotkeys, air mouse, spot light, magnifying glass, virtual laser and other pointer functions, which are widely used in classroom, training, conferences and other multi-person interactive environments.



Infrared and Capacitive both with 4096 levels of pressure sensitivity

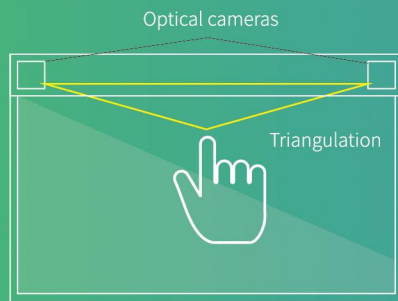
|                                     | P2R-UTA | P2C-UTA | P2R-UWA | P2C-UWA |
|-------------------------------------|---------|---------|---------|---------|
| Infrared Touch Devices Supported    | ○       | ○       | ○       | ○       |
| Capacitive Touch Devices Supported  | ×       | ○       | ×       | ○       |
| Charging Mode: USB Type-C           | ○       | ○       | ○       | ○       |
| Charging Mode: Wireless             | ×       | ×       | ○       | ○       |
| 4096 Levels of Pressure Sensitivity | ○       | ○       | ○       | ○       |



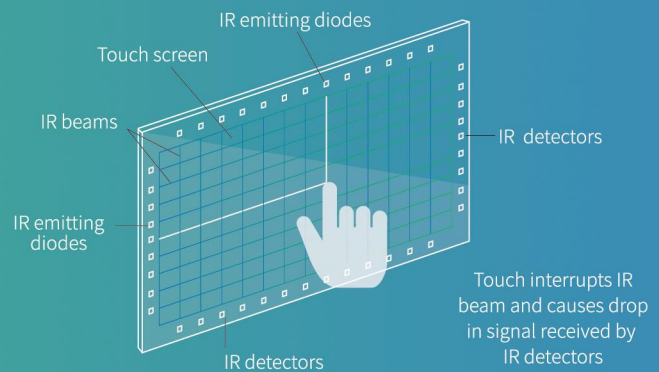
# OPTICAL TOUCH BAR



## Optical Touch Bar



## Infrared Touch Frame



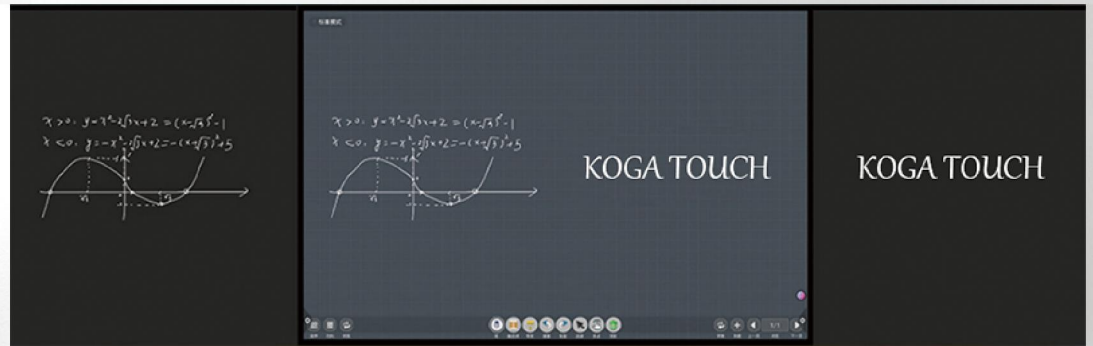
### Function Principle

The Optical Touch Bar uses optical cameras to continuously scan the chalkboard. When chalk comes into contact with the board, it shows different positions depending on the distance between chalk and camera. The location of the contact is then calculated by using information from both sensors and mathematically triangulated. The size of the optical touch bar is easy to scale, thereby making it well-suited for different chalkboard sizes.

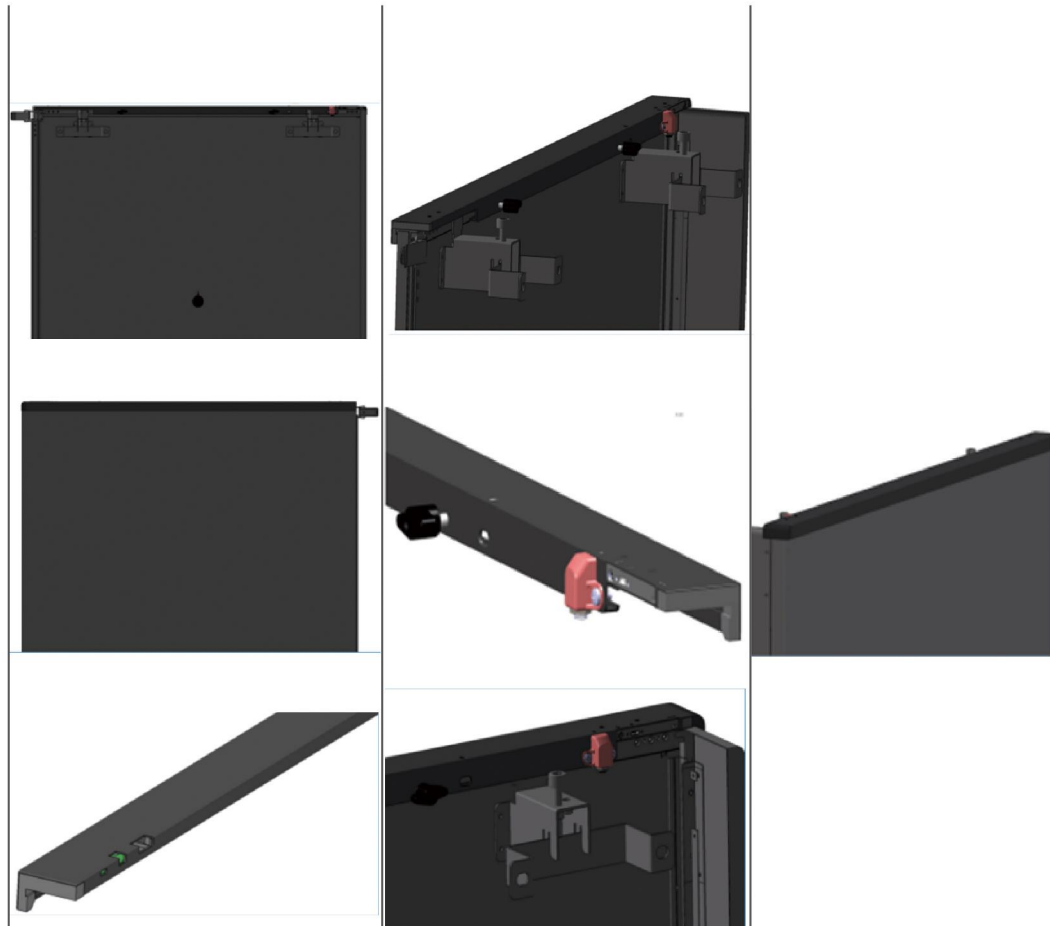
The Infrared Touch Frame is usually installed in front of the chalkboard. The infrared touch technology depends on the interruption of an infrared light grid. The frame is integrated with a printed circuit board which contains a row of infrared LEDs and photo transistors hidden behind the bezel of the touch frame. Each of the infrared LED has a corresponding photo transistor set on the opposite end, creating a grid of invisible infrared light beams.

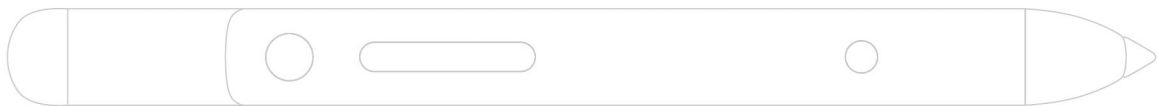
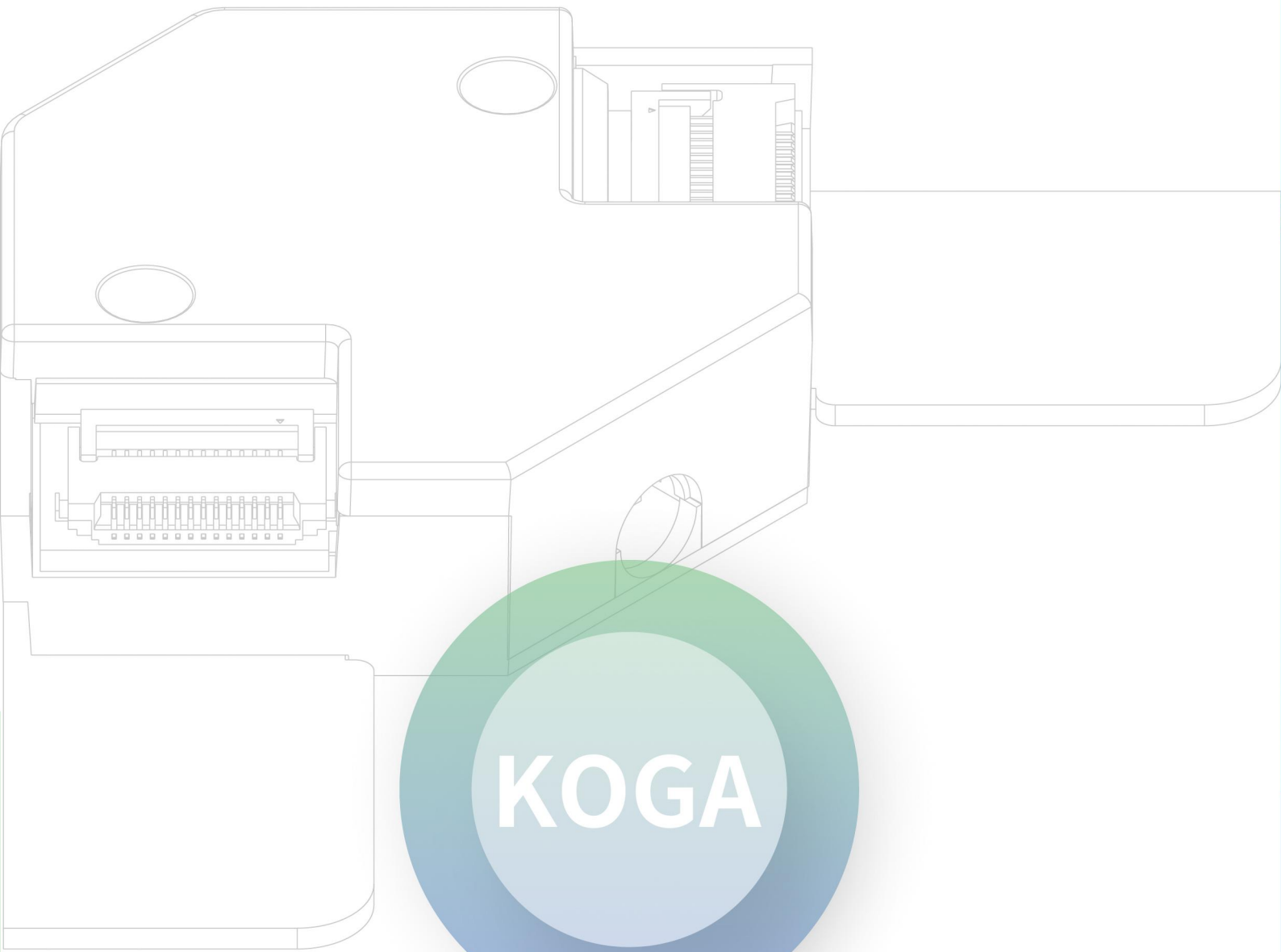
|                       |                     |                               |
|-----------------------|---------------------|-------------------------------|
| Form Factor           | Single Bar          | Rectangular Frame             |
| Touch Height          | 0                   | 2~3mm                         |
| Installation          | Simple installation | Complex installation required |
| Washable              | Yes                 | No                            |
| Chalk Dust            | Insusceptible       | Susceptible                   |
| Input Differentiation | Chalk & Finger      | None                          |

# INNOVATION FOR CLASSROOM



The Optical Touch Bar is a technological innovation for educational purposes. It's designed to address shortcomings of existing interactive technology. It has significant advantages in its ability to rapidly capture handwriting on blackboard, ease of installation, uniform frameless design, and chalk dust resistance. Handwritten content on the blackboard is duplicated in real-time on the digital blackboard.





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