

**Horion**

4K UI | Smart Whiteboard | Video Conference



[www.horionnepal.com](http://www.horionnepal.com)



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## New Image of High-end Conference

With European design masters, we use new design language to create new products and win national patents to upgrade the image of the conference room! Horion smart interactive flat panel integrates functions of six devices, including projector, electronic whiteboard, computer, display, advertisement player and audio equipment. It is a multi-purpose machine for conference demonstration, whiteboard writing and annotation, wireless screen mirroring, video conference and remote cooperation, making modern conference easy and efficient.



Math 243 Wednesday, Mar. 18

Group eq:  $\varphi: G \rightarrow GL(V)$  ( $V, +$ ) =  $V$   $\varphi \otimes \varphi = gV$

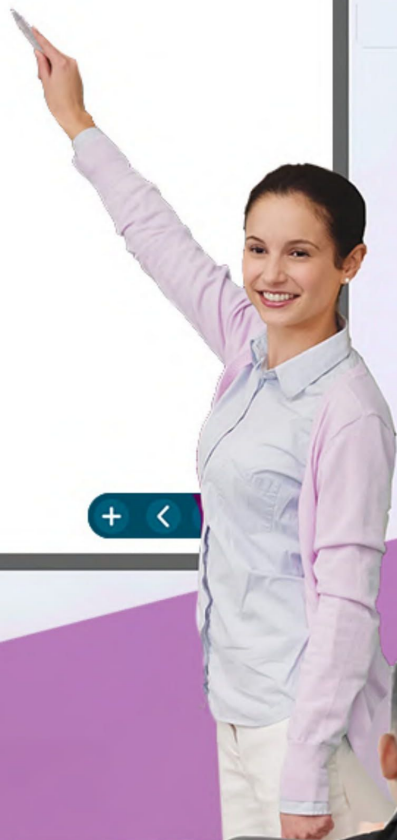
$V$  is a rep. of  $G$ , or  $G$ -module, or  $CG$ -module

$\chi_\varphi(g) = \text{tr } \varphi(g)$ :  $G \rightarrow \mathbb{C}$ ,  $\chi_\varphi(h_1 h_2) = \text{tr } \varphi(h_1 \varphi(h_2)) = \text{tr } \varphi(h_2)$   
 constant on conj class =  $\chi_\varphi(g)$

$W \subset V$ ,  $V/W$   $\chi_\varphi = \chi_W + \chi_{V/W}$   $\begin{pmatrix} \chi_W & \\ 0 & \chi_{V/W} \end{pmatrix}$   $V \xrightarrow{\varphi} W$   
 $\Rightarrow \chi_{\varphi \circ \varphi} = \chi_W + \chi_{V/W}$

$\chi_{\varphi \circ \varphi} = \chi_\varphi \cdot \chi_\varphi$   
 $\varphi \circ \varphi = V \xrightarrow{\varphi} V$   $\begin{matrix} \text{Hom}(V, W) \xrightarrow{\varphi} \text{Hom}(V, W) \\ \downarrow \varphi^* \downarrow \varphi^* \\ V \xrightarrow{\varphi} V \end{matrix}$   $\begin{matrix} \varphi \circ \varphi = \varphi \circ \varphi \circ \varphi \\ \varphi \circ \varphi = \varphi \circ \varphi \circ \varphi \\ \varphi \circ \varphi = \varphi \circ \varphi \circ \varphi \end{matrix}$   
 $\chi_{\varphi \circ \varphi}(g) = \chi_\varphi(g) \cdot \chi_\varphi(g)$   
 $\chi_{\varphi \circ \varphi}(g) = \chi_\varphi(g)^2$

Navigation icons: ⌕ ⏪ 🗑️ ☰ 🖌️ 🗑️ 🔍 📄 ↶ ↷ + ⏪





## | Video Conference - Collaboration

### Whiteboard Sharing / Writing Synchronization / HD Video Conference

It completely breaks the time and space constraints, with unique cloud conference system. Mobile phones, iPads, computers and interactive flat panels can be accessed for real-time, stable face-to-face communication, sharing and cooperation.

## | Wireless Screen Mirroring - Display

### 4K Screen Mirroring/Reverse Touch Control/Quad Screen

Horion interactive flat panel brings a new way of interaction and display. Images of computers, mobile phones and flat panels can be easily displayed on the same screen, and conference display, sharing and communication are easy and smooth. The computer can use Horion screen mirroring device to control the computer in reverse and realize two-way interaction. One screen is divided into four parts for multi-screen display, and support mobile phones, computers, tablets and other devices at the same time, so as to meet the needs of multi-person and multi-device display at the same time.



**Voting Machine**  
Convenient and smart voting



**Welcome Interface**  
Customize the welcome interface



**Smart Wake Up**  
Touch the screen to wake up automatically



**Agenda Timer**  
Easy to set countdown



**Feedback**  
Timely feed back to solve problems



**Any Interface Annotation**  
Annotate and save as you like





## I Touch Handwriting - Creating

### Pen Writing / Smart Form / Automatic Recognition

With 1 mm recognition accuracy, 20-point touch control, new writing software, single-point and multi-point writing mode, two kinds of brush selection, and smart handwriting algorithm, it presents fine handwriting and restores the real writing experience.

In the case of connecting to the network, it writes the keywords that need to be searched, and searches with one click after delimitation. The search information can be quickly displayed on a small window. With the default search engine Google, it is convenient and fast.

Through Bluetooth function, it can connect mobile phones, audio and other wireless devices, transmit data, and support wireless connection with printing device for document printing.

It supports graphics, 4K video and smart form insertion, with rich expression, only for simple sharing experience.



### Touch Handwriting

Writing on Horion interactive flat panel with writing pen is fluent and smooth, and the color thickness can be freely selected. It has its own stroke to restore the real effect of writing on white paper.



### Back of Hand Erasure

The back of the hand can be used as an eraser. Once it is wiped lightly, the contents written on the whiteboard can be removed, and the real eraser effect can be restored.

## Small Screen Mirroring to Big Screen

The independently developed screen Apple mobile phones, tablet computers, laptops and other devices. The interactive flat screen can interact with the laptop and the spliced large screen, making information transmission faster.





## Zero-distance Cooperation

It completely breaks the time and space constraints. With unique cloud conference system, mobile phones, iPads, computers and interactive flat panels can be accessed for real-time, stable face-to-face communication, sharing and cooperation.



## 13MP Camera

Built-in 13MP camera for clearer teleconference.



## 8-Array Microphone

With echo cancellation, noise suppression, beamforming and other voice algorithms, clear audio pickup, efficient communication, far-field pickup distance up to 8 meters, and no dead corner in the conference room.

## High-quality Dual Speakers

Matched with the digital sound system, the voice is clear and penetrating, and the bass is vigorous. It can make you feel the shocking sound effect.



## Screen Mirroring by One NFC Touch

Prepare mobile phones with NFC function. After the NFC function is enabled, approach the NFC area at the bottom of the machine and the devices can be mirrored on one screen as fast as in one second. Four kinds of devices can be mirrored on one screen. It supports multi-screen collaboration and information sharing, which effectively reduces such tedious matters as document arrangement, printing and distribution before the conference. It makes conference presentation, sharing and communication easy and smooth.

## Horion Sharing



After connecting the mobile phone's hotspot to the interactive flat panel, open Horion Sharing APP on the panel. Scan the QR code of Horion Sharing by the scan function of WeChat, QQ and other APPs. On the phone selection page, select the pictures and documents to be shared and you can quickly share them with others.





## Horion M5A Pro - Extraordinary Wisdom

Horion M5A Pro interactive flat panel is a professional all-round smart conference pioneer and has a wider range of scene cooperation ability, making collaborative office zero distance. Just one Horion M5A Pro can easily realize video conference, whiteboard writing, wireless screen mirroring and remote cooperation, with more functions and simple operation.

### Android 9.0 Smart Operating System + WINDOWS 10 System

With Android system, you can choose computer module to realize Windows system.

### Zero Fit Screen

The distance between the toughened glass and the screen is 0, which can effectively prevent light reflection. The display effect is excellent, and the writing experience is excellent.

### 13MP Camera+ 8-Array Microphone

High-quality screen and clear and stable audio-visual pickup system bring excellent audio-visual conference experience.

### NFC

With built-in NFC function and smart pen, the whiteboard function can be adjusted at any time; NFC supports "one touch, screen mirroring".

### New UI and Rich Applications

It can right slide into the common interface and left slide into all applications, with simple interaction, and it is easy to use it. Interface design blends in elegant Horion purple and high-end business with simple trend creates a new vision. In pursuit of better user experience, Horion R&D team regularly pushes OTA upgrade package according to the comprehensive evaluation of new functions and user feedback every month and continuously optimizes the wonderful interactive performance of products.





## | Horion Conference Management

### Smart Centralized Control System / Conference Doorplate / Enterprise Cloud

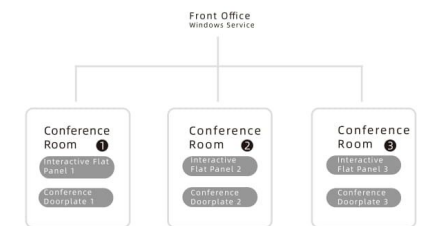
Horion is committed to making conferences easier and helping enterprises in a comprehensive and profound manner to improve the work efficiency of office scenarios.

**Smart Centralized Control System:** it can control multiple interactive flat panels at the same time, which offers information distribution and conference management, and other scenario applications.

**Conference Doorplate:** it supports conference information display, demand submission (completing the use of the conference room, preparing tea, etc.).

**Enterprise Cloud:** it supports whiteboard writing and document PPT one-key saving, providing storage space for important conference documents of enterprises.

The conference management system is a software and hardware system designed for managing several conference rooms. By using this system, the administrator does not need to go to the designated conference room to confirm the status, and can directly check the use of each conference room through the server (whether it is in use, whether the tea is needed, etc.);



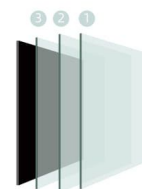
**4K**  
3840X2160



## | 4K Commercial Screen

### 3840×2160/ Commercial Grade / High Brightness

3.2mm AG anti-glare toughened glass is used to effectively eliminate strong glare. With Moh's hardness level 7, it provides a better writing experience. Thanks to the high-quality 4K ultra-high-definition commercial screen and fifth-generation color engine chip, it presents you with more natural picture quality.



- 1 Touch Protection Layer
- 2 Anti-glare Protection Layer
- 3 Toughened Glass Layer





## Beautiful Appearance

Concisely designed and integrating oriental aesthetics and the ideas of European masters, M5A Pro is turned into a fashionable and high-end work of art, concise but not simple.

For the first time, the zero fitting process is adopted to revitalize the visual sense. Every frame is like the scene of a blockbuster in the cinema. The screen glass and display screen adopt the industrial zero fitting process, showing more delicate picture quality and better writing experience. It's designed with AG toughened glass, anti-fingerprint coating and anti-glare protection layer.



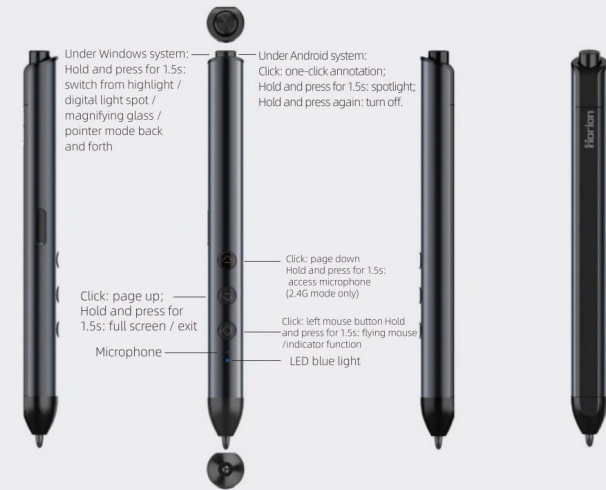
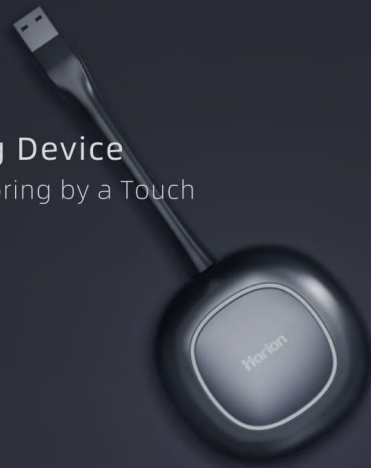
Exquisite Storage Tray (detachable)

| M5A Pro                                  |   |   |   |
|--|---|---|---|
| Model                                    | 65M5A Pro   | 75M5A Pro   | 86M5A Pro   |
| Screen size                              | 65"   | 75"   | 86"   |
| <b>Display</b>                           |   |   |   |
| Backlight type                           | D-LED   | D-LED   | D-LED   |
| Resolution                               | 3840*2160 (UHD)   | 3840*2160 (UHD)   | 3840*2160 (UHD)   |
| Brightness                               | 350cd/m <sup>2</sup>  | 350cd/m <sup>2</sup>  | 350cd/m <sup>2</sup>  |
| Screen contrast ratio                    | 1200:1  | 1200:1  | 1200:1  |
| Response time                            | 8ms   | 8ms   | 8ms   |
| Pixel distance                           | 0.372mm*0.372mm   | 0.4296mm*0.4296mm   | 0.4935mm*0.4935mm   |
| Frame rate                               | 60Hz  | 60Hz  | 60Hz  |
| Perspective                              | 178°(H) / 178°(V)   | 178°(H) / 178°(V)   | 178°(H) / 178°(V)   |
| Color saturation (x%NTSC)                | 72%   | 72%   | 72%   |
| Visible area                             | 1428.48mm*803.52mm  | 1649.664mm*927.936mm  | 1895.04mm*1065.96mm   |
| Colorfulness                             | 1.07B(10bit)  | 1.07B(10bit)  | 1.07B(10bit)  |
| Life                                     | 50,000 hrs  | 50,000 hrs  | 50,000 hrs  |
| <b>System properties</b>                 |   |   |   |
| System version                           | Android 9.0<br>(optional computer module for Windows system)  | Android 9.0<br>(optional computer block for Windows system) | Android9.0<br>(optional computer module for Windows system) |
| CPU model                                | ARM A73   | ARM A73   | ARM A73   |
| CPU working frequency                    | 1.5GHz  | 1.5GHz  | 1.5GHz  |
| Number of CPU cores                      | Four(Quad)  | Four(Quad)  | Four(Quad)  |
| GPU                                      | Mali-G52  | Mali-G52  | Mali-G52  |
| Internal cache capacity *(RAM)           | 8GB DDR4  | 8GB DDR4  | 8GB DDR4  |
| Internal storage capacity (ROM)          | 64GB Standard   | 64GB Standard   | 64GB Standard   |
| <b>Power parameters</b>                  |   |   |   |
| Voltage                                  | 100 V - 240 V/AC, 50/60 Hz  | 100 V - 240 V/AC, 50/60 Hz                                  | 100 V - 240 V/AC, 50/60 Hz                                  |
| Maximum power (without OPS)              | 220W  | 300W  | 380W  |
| Standby power                            | <0.5W   | <0.5W   | <0.5W   |
| Power (AC) input                         | -1  | -1  | -1  |
| <b>Touch parameters</b>                  |   |   |   |
| Touch screen                             | Touch specification: infrared touch box; glass specification: 3.2mmAG toughened glass; response time: ≤8ms; touch accuracy: ±1mm  |   |   |
| <b>Camera + microphone</b>               |   |   |   |
| Camera                                   | 13 Mega Pixel   |   |   |
| Microphone                               | Linear 8-array microphone; audio pickup distance: 8m  |   |   |
| <b>Function</b>                          |   |   |   |
| Associated power                         | 10W *2  |   |   |
| NFC                                      | Support   |   |   |
| Bluetooth                                | Support   |   |   |
| <b>Display interface</b>                 |   |   |   |
| Number of interfaces                     | HDMI port*2, DP port*1, VGA input port*1, OPS port*1, Touch-USB 2.0*1, Public USB 2.0*3, LAN port*2, Android USB 3.0*2, USB Type-C*1, PC-Audio input port*1, S/PDIF output port*1, Audio OUT*1, RS232*1, Mic IN*1 |   |   |
| <b>Structure</b>                         |   |   |   |
| Net weight                               | 42Kg±1.5Kg  | 50Kg±1.5Kg  | 68Kg±1.5Kg  |
| Gross weight                             | 54Kg±1.5Kg (heavy carton)   | 70Kg±1.5Kg (heavy carton)                                   | 89Kg±1.5Kg (heavy carton)                                   |
| Bare machine dimensions (L * W * H)      | 1511.56mm*86.08mm*907.89mm  | 1722.41mm*87.08mm*1022.15mm                                 | 1967.65mm*87.28mm*1160.15mm                                 |
| Package size (L * W * H)                 | 1,660mm*245mm*1,045mm (heavy carton)  | 1,880mm*280mm*1,160mm (heavy carton)                        | 2,140mm*280mm*1,340mm (heavy carton)                        |
| VESA hole location                       | 4-M8 screw hole 600mm*400mm   | 4-M8 screw hole 800mm*400mm                                 | 4-M8 screw hole 800mm*600mm                                 |
| Shell material (face frame / rear shell) | Aluminum profile / sheet metal  | Aluminum profile / sheet metal                              | Aluminum profile / sheet metal                              |
| Shell color (face frame / rear shell)    | Dark tarnish / black  | Dark tarnish / black  | Dark tarnish / black  |
| <b>Computer module (optional)</b>        |   |   |   |
| i5.OS (optional)                         | Intel®Core™I5/i7 processor, RAM: 8GB + SSD: 256GB   |   |   |
| <b>Packing list</b>                      |   |   |   |
| List                                     | Accessories List*1, Writing Pen*1, Double-ended Writing Pen*1, Remote Control*1, Expansion Screw* 8 , instruction manual*1, certificate/warranty card*1, 3m power cord*1  |   |   |

Note: the relevant data are for reference only. The specific parameters shall be subject to the actual product. The data were carefully checked for accuracy. There's no notice of any change in product function and specification, and the company reserves the final interpretation right to the relevant contents in the data.

## Screen Mirroring Device

Wireless Screen Mirroring by a Touch



## Smart Pen

Three Key Design for Simple Operation



## Writing Pen

Exquisite Design and Easy Operation



In piano baking paint and frosting technology, it combines concise artistic inspiration and looks elegant and extraordinary; with smart magnetic suction design and extremely light body, it's easy to use; you can make annotations smoothly and fluently.

## Microphone

Three Key Design for Simple Operation



360° audio pickup, human voice positioning, ultra-long distance communication, AI noise reduction; built-in lithium battery, 10H long communication; supporting USB, Bluetooth and AUDIO cable communication, it's easy to use, and compatible with a variety of devices.

## Conference Doorplate

Smart Conference Management System



10.1-inch IPS screen, conference reservation, tea reservation, conference system management, smart distribution of conference room, one-click management of conference, 1+16G storage, support wireless network connection.

## Horion Enterprise Cloud

Safe and Reliable File Management



Conference file management, conference document storage, quick access, security protection, 16 GB SSD + 1 TB mechanical hard disk, scalable up to 36T at maximum. It supports web, iOS, Android, interactive flat panel, and fetch. It also supports mobile APPs to share files to enterprise cloud.

## Mobile Base

Exquisite, Beautiful and Convenient to Move



The HK70 new base is special for Horion Interactive Flat Panel. Made of high-quality carbon steel, it's safe, reliable, and convenient to move.

<https://global.horion.com/pages/products/MobileStand>

## Camera

Seamless Collaboration of HD Video



With 110° horizontal visual angle and 4K resolution, it's compatible with most video conference software, easy to use, stable and smooth, and doesn't need any additional driver.

## Computer Module

Strong Core with Excellent Performance



Windows-i5 computer module adopts Intel Core, supports energy-saving technology and 64-bit computing, and has powerful operation ability. It's compatible with all kinds of video software, and can be installed freely according to needs to meet individual needs.

## Storage Box

Convenient Storage



In aluminum alloy sand-blasting oxidation process, the conference room storage box is large and easy to use and can simultaneously store 2 wireless frequency synchronism devices, 4 smart writing pens, 1 remote control.

## Application Scenarios

Horion empowers efficient development of enterprises by means of science and technology. Its products have been fully used for business conferences, corporate office, education and training, product display and other application scenarios, which comprehensively enhance the high-end image of enterprises to boost the market competitiveness of enterprises.



### Business Conference

Horion makes the whole conference process faster. Corporate office conferences can be held without limitation of office space and office distance at any time any place, achieving efficient collaboration.



### Training

It supports remote training, helps training institutions to achieve diversified, informationalized, convenient knowledge dissemination.



### Commercial Display

It supports flexible release and display of diversified information. With smart centralized control management, everything is under control.



### Education

It aims at building modern classrooms to facilitate the sharing of teaching resources, collaboration in teaching affairs conferences, and the interconnection and transmission of multimedia tools.



## M5A Pro Smart Interactive Flat Panel

In ultra-narrow edge fusion machine design, it boasts good appearance and talent; it has the whole series of true 4K large screen, high fidelity sound system, and sensory wake-up; handwriting recognition reconstructs the tradition, and more ways of expression are handy; the new NFC interaction enables information to be displayed on the same screen by a touch, realizing information sharing with ease; the intelligent office work can be applied in various scenes and its great potential and convenience are beyond our imagination.



# OPS—Open Pluggable Specifications



产品类型/Product Categories : OPS

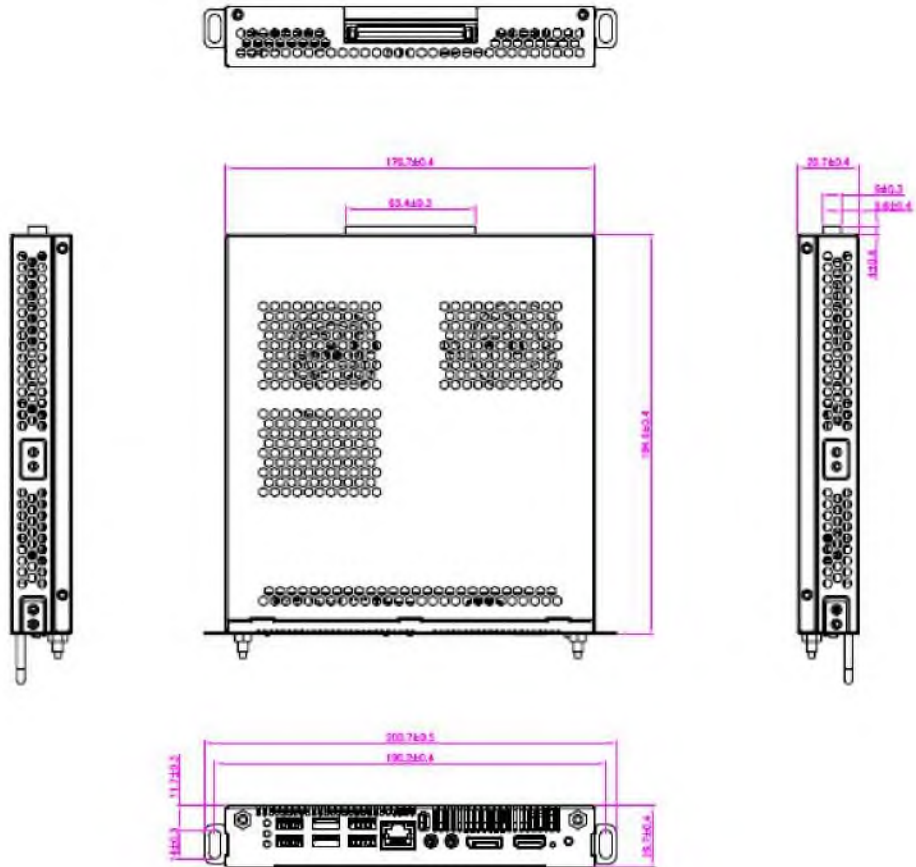
产品型号/Product Model : HOPS-I59WAE

时间/Date : 2022. 5

## 1. 规格/Specifications:

|                          |   |                        |
|--------------------------|---|------------------------|
| 处理器/Processor            | Intel® Core i5 10400 Processor 2.9GHz   |                        |
| 硬盘/Storage               | 1 x M.2 256G SSD                        |                        |
| 内存/Memory                | 8G DDR4                                 |                        |
| 芯片组/Chipset              | Intel H510                              |                        |
| 网卡/Network card          | Integrated 10/100/1000M Adaption        |                        |
| 无线网卡/WiFi                | intel 3165/6168                         |                        |
| 声卡/Sound card            | Integrated High Definition Audio Stereo |                        |
| 显卡/Graphics card         | Intel 630                               |                        |
| 蓝牙/Bluetooth             | Bluetooth4.2                            |                        |
| 输入输出接口/I/O               | *3 USB2.0                               |                        |
|                          | *3 USB3.0                               |                        |
|                          | *1 RJ45 10/100/1000M                    |                        |
|                          | *2 WIFI/BT ANT                          |                        |
|                          | *1 3.5mm Line out                       |                        |
|                          | *1 3.5mm Mic in                         |                        |
|                          | *1 80-pin 4K 60Hz                       |                        |
|                          | *1 HDMI 4K 30Hz                         |                        |
|                          | *1 DP 4K 60Hz                           |                        |
| 电源 / Power               | 12V~19V DC                              |                        |
| 操作系统/System              | 海外/Overseas                             | Windows 10 pro English |
|                          | 国内/China                                | Windows 10 pro 中文      |
| 尺寸/Size                  | 180mm x 194.6mm x 30mm                  |                        |
| 工作温度/Working Temperature | 0~40℃                                   |                        |
| 工作湿度/Working Humidity    | 10%~95%                                 |                        |
| 存储温度/Storage Temperature | -20~60℃                                 |                        |
| 存储湿度/Storage Humidity    | 10%~92%                                 |                        |
| 净重/Net Weight            | 1.24KG                                  |                        |

## 2. 产品六视图/Six views of product



# PACHET EDUCATION - PWCMC

## PTZ-Web conf. cam si microfon cu baxa



### Camera PUAED-U21F cu urmatoarele caracteristici:

- ❖ 1/2.8" HD Color Sony CMOS, 2.1 Mega Pixeli, Zoom optic: 10x;
- ❖ Frame Rate: H.264/MJPEG 1080P/30fps, HD 720P30fps;
- ❖ Rezolutie: FHD 1920\*1080@30fps; HD 1280\*720; SD 640\*480;
- ❖ Unghi inclinatie fata de orizontala (Pan): 30 grade jos si 90 grade sus;
- ❖ Suporta (Tilt/rotire) la 90 grade pentru monare pe tavan;
- ❖ Video Output: USB 2.0;
- ❖ Interfete comunicare: RS232 / USB2.0 /RS485;
- ❖ Power: USB2.0 / JEITA type (DC IN 12V);
- ❖ PTZ Control Protocol: VISCA and PELCO D/P;
- ❖ Telecomanda: cum functii de zoom, tilt, preset, on/off, 255 Presets (9 Presets by IR Remote);

Compatibilitati: Windows 7/8/8.1/10, Mac OS X, Android & Linus System, BlueJeans, Easymeeting, Cisco WebEx, GoToMeeting, Google Hangouts/Meet, Microsoft Skype, Gruveo, Zoom, and Skype for Business, Konftel, Avaya, Starleaf, Konftel, Trueconf , Polycom, Lifesize etc API or VC Software;

Dimensiuni: (L X W X H) 115x115x135mm;

Greutate: 1.2kg, temperaturi operare: -10°C ~ 50°C;

### Microfon si difuzor PUAED-M21-F cu urmatoarele caracteristici:

- ❖ Voce: Deep cancellation/, dynamic noise suppression, automatic gain control technology;
- ❖ Audio: Microphone frequency response: 100Hz-22KHz, speaker frequency response: 100Hz-22KHz, speaker Volume: up+/-down pana la 85dB and mute, Built-in microphone pickup range: 3,5 meters (Radius), 360 degrees full range Cover;
- ❖ Conectivitate: 1x USB type C to USB2.0 to interface with laptop/PC);

Compatibilitate: Win 2000, XP, Vista, Win 10, Linux, Apple iOS, Android OS;

Accesorii functionare: cablu USB 2,5 ml, pentru conectivitate camera la PC/Laptop si cablu USB type C to USB2.0 pentru microfon.