**Intech Infrared Touch Panel**



## 1. Product Features

**(1). System:**

* Support Android 8.0 operation system and 4K Ultra HD screen;
* 2xCA73+2xCA53 CPU, quad-core, 64bit, 1.5GHz;

**(2). Appearance & Touch Functions:**

* 12mm ultra-slim frame;
* Support high-speed IR 20 points touch, ±1 mm accuracy, 1.0 mm touch height, front detachable touch module;
* It has OPS port supporting dual systems; and there are three USB ports for computer and Android system use.
* Front Type-C connector for various functions, including HD video transmission, USB pass-through, touch pass-through, network pass-through of the external devices, 5V/1A power supply;

1. Video transmission: supports 4K@60Hz, mirror the computer/mobile phone’s screen onto the touch panel
2. Network pass-through: it supports to
3. USB pass-through: The external devices can read the USB device of the touch panel with no need to repeated plug and unplug.
4. Touch pass-through: You can control the external devices that connect through the Type-C from the touch panel;
5. Power supply (5V/1A): It can provide power for the external device, thus, the meeting would not be interrupted by the outage of the devices.

* Front magnetic pen slot to stick stylus pen within easy reach.
* It supports use an antenna to connect the Android system, meanwhile, the OPS device can surf the internet.
* When connecting external USB, the system enters the safe mode to safeguard the files. Users need to input the password to unlock it.

**(3). Whiteboard Writing Function:**

* 4K resolution with superfine writing experience;
* Powerful software supports single and multi-point touch; precisely recognizes the force you apply onto the screen; supports insert pictures, add page and gesture recognition for remove, zoom in/out, roam; supports annotation and share documents via QR code.
* Support zoom in/out, undo and redo unlimitedly
* Anti-glare explosion-proof tempered glass, Mohs grade 7 hardness for safety and better writing experience.

**(4). Meeting & Training:**

* Built-in WPS, welcome page, and so on office software;
* Built-in 2.4/5G network card, support WIFI and hotspot simultaneously
* Wireless sharing with multi-users, supporting reverse screen mirror (control your touch panel from your mobile devices), remote snapshot, video, music, document share, screen shoot, etc.
* Automated recognize the external input signal source and easily switch the screen.

**(5). Business Solution:**

* High definition image process: image motion compensation, colors enhancement process, peer-to-peer image display;
* Three fingers to move the floating menu, five fingers to touch the screen entering sleep mode;
* Customize the welcome page, theme, and background; auto classify the local players to cater to the different requirements;
* It supports use sidebar buttons or gestures to call out the guichet menu: voting system, timer, screenshot, child locker, recorder, camera, touch function, smart eye-care function, touch controlling switch, etc.
* Compatible with the external information releasing APK software to remote present video, image, scroll titles, enterprise/school’s introduction, etc.

## 2. Product Parameter

**(1). Specifications**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Item | Model | TS65 | TS75 | TS86 | TS98 |
| Technical | Size | 65" | 75” | 86” | 98” |
| Overall Size | 1479.9\*923.6\*106.1 mm | 1699.2\*1038.1\*106.5 mm | 1946\*1181.8\*113.15 mm | 2227.4\*1345.8\*122 mm |
| Packing Size | 1600\*1025\*215 mm | 1870\*1150\*220 mm | 2110\*1315\*240 mm | 2500\*1630\*440 mm |
| G.W/N.W | 52/43 KG±1.5KG | 69/58 KG±1.5KG | 110/92.7 KG±1.5KG | 197/139 KG±1.5KG |
| Screen | Screen Manufacturer | TCL CSOT | | | |
| Backlight Type | D-LED | | | |
| Resolution | 3840\*2160 | | | |
| Brightness | 550cd/m² | | | |
| Contrast Ratio | 6500:1 | 6500:1 | 6500:1 | 6500:1 |
| Response Time | 6ms | | | |
| Dot Pitch | 0.124\*0.372 mm (H\*V) | 0.4298\*0.4298 mm (H\*V) | 0.4875\*0.48758 mm (H\*V) | 0.5622\*0.5622 mm (H\*V) |
| Refresh Rate | 60 Hz | | | |
| View Angle | 178°(H) / 178°(V) | | | |
| Saturation (x% NTSC) | 72 % | | | |
| Display Area | 1428.48 (H)\*803.52 (V) mm | 1650.24 (H)\*928.26 (V) mm | 1872 (H)\*1053 (V) mm | 2158.85 (H)\*1214.35 (V) mm |
| Colors | 1.07B(8bit) | | | |
| Screen Lifespan | 50,000 hrs | | | |
| Mainboard | Chipset | MSD8386 | | | |
| OS | Android Version | Android 8.0 | | | |
| CPU | CA53\*2+CA73\*2 | | | |
| CPU Base Frequency | 1.5 GHz | | | |
| # of Cores | Quad-core | | | |
| GPU | G51MP2 | | | |
| RAM | 3 GB DDR4 | | | |
| ROM | 32 GB Standard | | | |
| Power  Power | Input Voltage | 100 V ~ 240 V/AC, 50/60 Hz | | | |
| Max Consumption (without OPS) | ≤220W | ≤300W | ≤350W | ≤450W |
| OPS Power Input | 19V(DC)/5A | | | |
| Standby Consumption | <0.5W | | | |
| Power Input Port (AC) | \*1 | | | |
| TV System | TV | ATV (PAL,SECAM) | | | |
| DTV (DTMB) | | | |
| Function | Speaker | 8Ω/20W\*2 | 8Ω/20W\*2 | 8Ω/20W\*2 | 8Ω/20W\*2 |
| Power On/Off | \*1 | | | |
| TV System | Video Decoding | Image denoising, image self-adaptive filtering, etc. | | | |
| Channel | 200 | | | |
| Stereo Amplifier System | Yes | | | |
| I/O Ports | LAN | \*2 | | | |
| VGA IN | \*1 | | | |
| PC-AUDIO IN | \*1 | | | |
| YPBPR | \*1 | | | |
| AV IN | \*1 | | | |
| AV OUT | \*1 | | | |
| Earphone OUT | \*1 | | | |
| RF-IN | \*1 | | | |
| SPDIF | \*1 | | | |
| HDMI IN | \*3 (1 front) | | | |
| Touch | \*2 (1 front) | | | |
| Type-c | \*1 (front) | | | |
| RS-232 | \*1 | | | |
| USB2.0 | \*5 (3 front dual-channel USB2.0) | | | |
| Environment | Working TEMP | 0℃ ~ 40℃ | | | |
| Storage TEMP | -10℃ ~ 60℃ | | | |
| Working Humidity | 20% ~ 80% | | | |
| Storage Humidity | 10% ~ 60% | | | |
| Recommended Max Usage Time | 18Hours\*7days | | | |
| Structure | VESA Hole | 4-M8 screw hole 400mm\*200mm | | | |
| Shell Material | aluminum alloy/metal plate | | | |
| Shell Color | black | | | |
| Language | OSD Menu | 10 languages (English, Chinese, etc.) | | | |
| Packing List | remote control\*1 (no battery),1.5m power cable\*1,normal pen\*1 WIFI antenna\*3wall mount bracket\*1 (include screws), user manual\*1, usb a-b \*1,usb a-a\*1,HDMI \*1 ,POINTER \*1 | | | | |

**(2). Product Image**





## 3. Touch Writing System

**(1). Features**

* Infrared touch frame
* 32768\*32768 resolution
* Support 20 points touch
* Plug and play

**(2). Parameter**

|  |  |  |
| --- | --- | --- |
| Touch parameter | Touch Technology | Infrared |
| Glass | 4mm anti-glare tempered glass |
| Response Time | ≤6ms |
| Touch Accuracy | ±1mm |
| Touch Diameter | ≥3mm |
| Input Method | finger/stylus pen |
| Theoretical Touch Times | unlimited |
| Interface | USB 2.0 full speed | |
| Voltage | DC+5V±6% | |
| Power Consumption | ≤2W | |

## 4. Product Diagram (wall mount hole 400\*200)