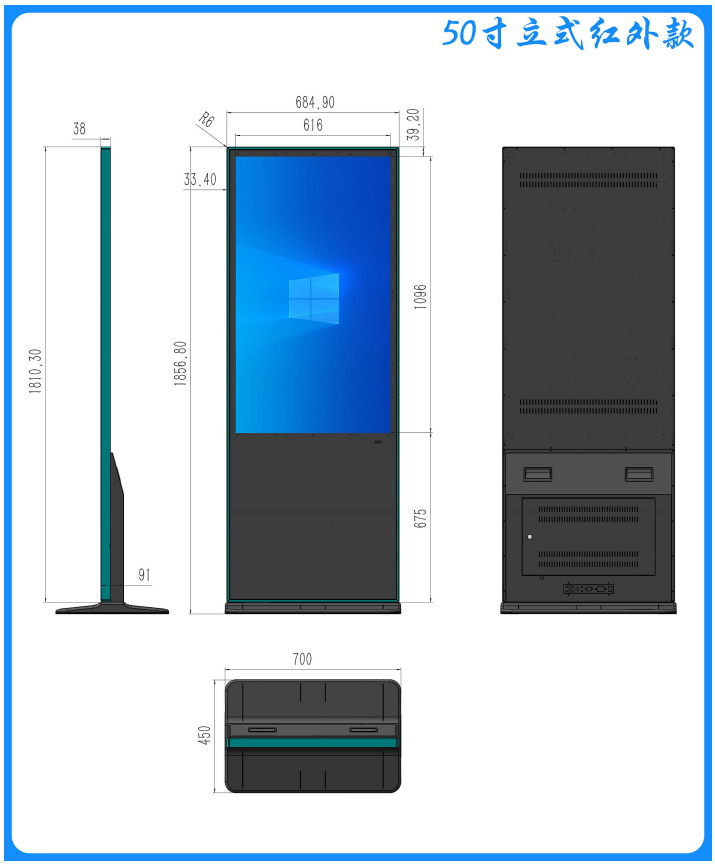
# 50-inch Floor-Standing Infrared Touch Display

**Product Specifications Model: TSB50LSN**

## Product Overview

This 50-inch floor-standing advertising display uses a 2K ultra-high-definition LCD panel with 40-point infrared touch. Built around the HD-133MC (Allwinner A133) Android mainboard (Android 10.0) and protected by 4 mm fully tempered anti-shatter glass, it supports landscape and portrait playback, video split screen and back-office advertising management. It suits information publishing and advertising in government service halls, banks, hospitals, shopping malls and retail branches.

## 1. Product Rendering




Product rendering (for reference only; the actual product may vary)

## 2. Dimensions and Packing List

| | |
|---|---|
| Overall dimensions (H x W x D)<br>**1856.8 × 684.9 × 38 mm** | Carton dimensions (H x W x D)<br>**1900 × 805 × 160 mm** |
| Net weight<br>**41.6 KG** | Gross weight<br>**48.2 KG** |

| | |
|---|---|
| **Package volume** | 0.238 m3 |
| **Configuration** | Android network / X86 |
| **Front bezel colour** | Black / Silver / Gold / White / Custom |
| **Rear cover colour** | Black / White / Custom |
| **Backlight type** | LED edge-lit module |
| **Glass** | Tempered glass, AG glass |
| **Optional panel brands** | AUO, BOE, CMO, LGD, CSOT |

| | |
|---|---|
| **50-inch floor-standing infrared touch display** | 1 pc |
| **Remote control** | 1 pc |
| **Touch pen** | 1 pc |
| **Power cord** | 1 pc |

## 3. Display Specifications

| | |
|---|---|
| **Display size (mm)** | 1100.8 x 619.8 |
| **Resolution** | 2K (1920x1080) |
| **Peak brightness** | <=350 cd/m2 +/-20 |
| **Dynamic contrast** | 5000:1 |
| **Viewing angle** | H/V: 178 / 178 deg |
| **Aspect ratio** | 16:9 |
| **Colour depth** | 10-bit, 16.7M |
| **Refresh rate** | 60 Hz |
| **Screen protection** | 4 mm fully tempered anti-shatter glass |
| **Backlight** | DLED (direct-lit) |
| **Backlight life** | 50,000 hours |

## 4. Touch Specifications

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|---|---|
| **Touch integration** | Built-in one-piece, not externally mounted |
| **Touch technology** | Infrared touch recognition (40-point) |
| **Cursor speed** | 120 points/s |
| **Positioning accuracy** | +/-2 mm over more than 90% of the touch area |
| **Touch resolution** | 32768 x 32768 |
| **Touch endurance** | Unlimited in theory |
| **Response time** | Auto-recognition, <=15 ms |
| **Driver** | Driver-free |
| **Input method** | Finger, touch pen or any opaque object at least 5 mm in diameter (8 mm for multi-touch) |
| **Touch functions** | 40-point touch; image zoom in/out and rotation; on-screen menu and volume control |

## 5. System Hardware

| | |
|---|---|
| **Mainboard model** | HD-133MC |
| **Main chip** | A133, quad-core Arm Cortex-A53 up to 1.6 GHz |
| **GPU** | Imagination PowerVR GE8300 |
| **Storage** | 1GB+8GB / 1GB+32GB / 2GB+32GB |
| **Network** | RJ45 100M Ethernet with POE; 2.4 GHz Wi-Fi (802.11b/g/n); external USB 4G module supported |
| **Display interface** | 1x LVDS (single/dual, 6/8-bit, 3.3V/5V/12V); 1x 40-pin MIPI (reserved); on-board backlight control with 12V output |
| **Image rotation** | 0/90/180/270 degree rotation; optional gravity-sensor auto rotation |
| **Audio** | Standard left/right line output |
| **Amplifier** | 2-channel output (8 ohm 5W default, 8 ohm 10W compatible) |
| **USB** | 1x USB 2.0 HOST, 1x USB 2.0 OTG, 1x EXUSB |
| **Serial ports** | 2x UART (RS232 optional), 1x DEBUG |
| **IR** | IR receiver socket with remote control support |
| **RTC** | Built-in real-time clock |
| **Button** | 1x flashing button |
| **LED** | Power LED (green on / red off); system LED (blinking when running, off when shut down) |
| **Operating temperature** | -20 C to 70 C |
| **Storage temperature** | -40 C to 70 C |
| **Storage humidity** | 10% - 90%, non-condensing |
| **Watchdog** | Hardware watchdog |

## 6. Software Specifications

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|---|---|
| **Operating system** | Android 10.0 |
| **Audio formats** | MP3, WAV, APE, FLAC, OGG, M4A, 3GPP |
| **Video formats** | H.265, H.264, VP8, MAV, H.263, MPEG4 |
| **Image formats** | JPG, BMP, PNG |
| **Built-in apps** | APK installer, e-mail, calculator, browser, sound recorder, calendar, settings, clock, video player, search, contacts, gallery, downloads, camera, music, file manager |
| **Languages** | Multiple languages |
| **Input method** | Standard Android keyboard; third-party optional |
| **System management** | Native Android with root access for custom development; real-time remote monitoring, crash auto-recovery and 24/7 unattended operation; USB upgrade, custom boot animation, server/standalone mode switching and Wi-Fi hotspot |
| **Watchdog** | Hardware watchdog |

## 7. Electrical Specifications

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|---|---|
| **Power input** | AC 200-264V 50/60Hz |
| **Power consumption (excl. PC)** | <=350W |
| **Speaker output** | Stereo dual-channel Class-D amplifier, rated 2 x 10W (L+R / 8 ohm), THD+N<=10% @1kHz |

## 8. Dimension Drawing



Dimension drawing (all dimensions in mm)