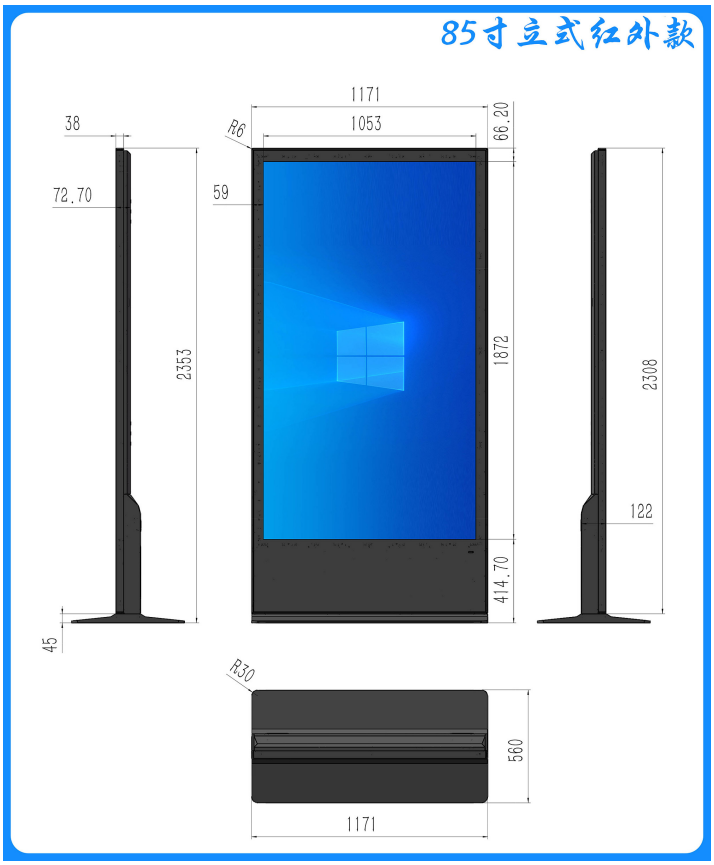
85-inch Floor-Standing Infrared Touch Display

Product Specifications Model: TSB85LSN

Product Overview

This 85-inch floor-standing advertising display uses a 4K ultra-high-definition LCD panel with 40-point infrared touch. Built around the HD-3566MV (Rockchip RK3566) Android mainboard (Android 11.0) 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) **2358 × 1171 × 123 mm**	Carton dimensions (H x W x D) **2418 × 1282 × 240 mm**
Net weight **108.4 KG**	Gross weight **134 KG**

Package volume	0.74 m3
Configuration	Standalone / Android / X86 PC
Front bezel colour	Black / 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

85-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)	1871.4 x 1053.6
Resolution	4K (3840x2160)
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

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-3566MV
Main chip	RK3566, quad-core up to 1.8 GHz
GPU	Mali-G52 (OpenGL ES 1.1/2.0/3.2, OpenCL 2.0, Vulkan 1.1)
NPU	1 TOPS
Storage	2GB+32GB / 4GB+32GB
Network	RJ45 100M Ethernet; 2.4/5 GHz dual-band Wi-Fi (802.11b/g/n/ax, WiFi 6); Bluetooth 5.0 with phone file transfer
Display interface	1x V-By-One supporting 4K@60Hz; on-board backlight control with 12V output
Image rotation	0/90/180/270 degree software rotation
Amplifier	2-channel output (8 ohm 5W default, 8 ohm 10W compatible)
USB	1x USB 3.0 HOST, 1x USB 2.0 OTG, 2x expansion USB
Serial ports	2x TTL (RS232/RS485 optional), 1x DEBUG, 1x MCU flashing port
GPIO	3x IO for input/output or key scanning
IR	IR receiver socket with remote control support
RTC	Built-in real-time clock
Button	1x upgrade 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	Software and hardware watchdog

6. Software Specifications

Operating system	Android 11.0
Audio formats	MP3, WMA, WAV, APE, FLAC, AAC, OGG, M4A, 3GPP
Video formats	H.265, H.264, VP8, MAV, WMV, AVS, H.263, MPEG4
Image formats	JPG, BMP, PNG
Built-in apps	Calculator, sound recorder, calendar, settings, clock, video player, contacts, gallery, files, camera, music, file manager, browser
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	Software and hardware watchdog

7. Electrical Specifications

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)