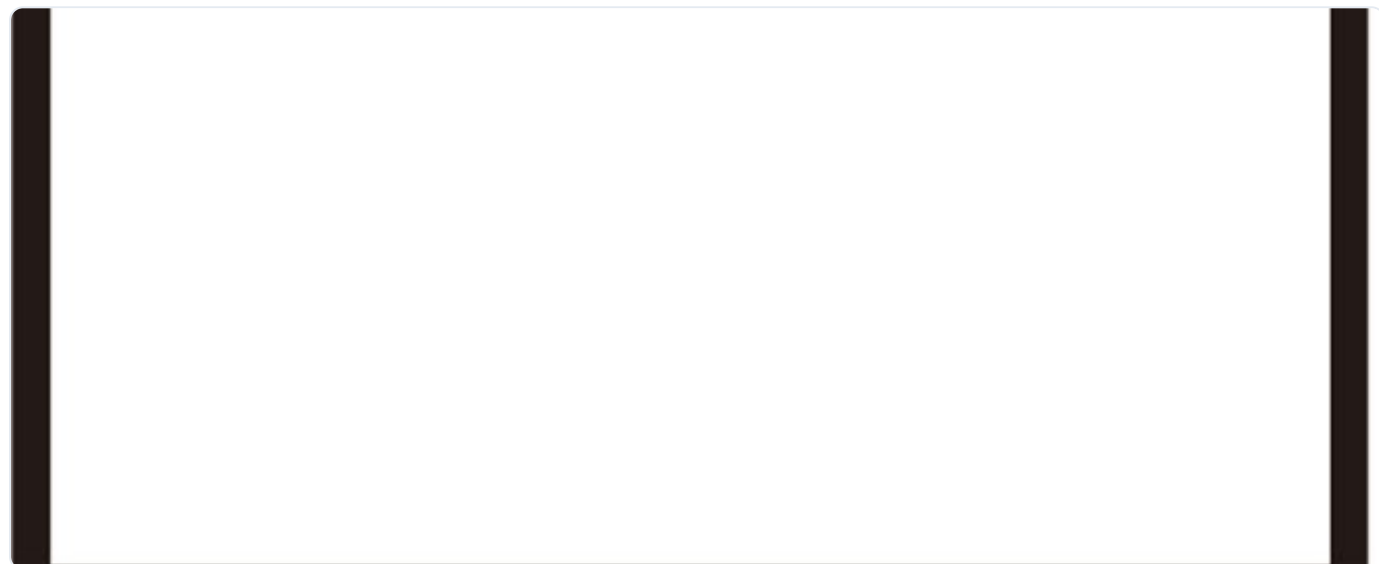


Infrared Touch Frame

15.6" – 400"

Plug-and-play USB HID multi-touch overlay for LCD, LED and video walls. No driver, no bonding, no change to the display behind it.



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1. What the product is

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An infrared touch frame is a four-sided aluminium extrusion carrying an array of infra-red emitters and receivers. The beams cross the display surface in a grid; a finger or any opaque object interrupts two of them and the controller resolves the intersection as a coordinate. Nothing is bonded to the glass and nothing is added to the LCD, so the display keeps its original brightness, colour and viewing angle.

Because there is no transparent conductive layer, the frame can be built far larger than a capacitive panel — 15.6 inch up to 400 inch — and can be supplied knocked down for air freight, then assembled on site around an existing video wall or LED cabinet array.

Typical use: meeting and classroom boards, self-service kiosks, wayfinding totems, LED video walls, exhibition interactive walls, industrial control panels, outdoor payment terminals.

2. Standard sizes and indicative pricing

All dimensions in millimetres. OD is the outside of the frame; the active area is inset by the 13 mm bezel. Glass is optional and priced separately.

Diagonal	Active area (mm)	Frame OD (mm)	Frame USD	+ Glass USD	Stock
15.6"	345 × 194	371 × 224	\$32	\$50	438 pcs
17"	337 × 270	363 × 300	\$36	\$56	396 pcs
18.5"	410 × 230	436 × 260	\$40	\$62	424 pcs
19"	377 × 301	403 × 331	\$40	\$62	388 pcs
21.5"	476 × 268	502 × 298	\$48	\$72	466 pcs
23.6"	522 × 294	548 × 324	\$52	\$76	402 pcs
23.8"	527 × 296	553 × 326	\$54	\$80	452 pcs
27"	598 × 336	624 × 366	\$64	\$92	374 pcs
32"	708 × 398	734 × 428	\$90	\$120	412 pcs
39.5"	874 × 492	900 × 522	\$105	\$141	356 pcs
42"	930 × 523	956 × 553	\$110	\$148	342 pcs
43"	952 × 535	978 × 565	\$115	\$153	486 pcs
46"	1018 × 573	1044 × 603	\$130	\$172	318 pcs
49"	1085 × 610	1111 × 640	\$135	\$179	358 pcs
55"	1218 × 685	1244 × 715	\$160	\$212	508 pcs
58"	1284 × 722	1310 × 752	\$170	\$226	296 pcs
65"	1439 × 809	1465 × 839	\$195	\$259	447 pcs
70"	1550 × 872	1576 × 902	\$225	\$297	284 pcs
75"	1660 × 934	1686 × 964	\$255	\$335	336 pcs
86"	1904 × 1071	1930 × 1101	\$330	\$435	302 pcs
98"	2170 × 1220	2196 × 1250	\$430	\$560	318 pcs
100"	2214 × 1245	2240 × 1275	\$455	\$590	268 pcs

110"	2435 × 1370	2461 × 1400	\$535	\$690	254 pcs
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 Prices are FOB Shenzhen for the frame, controller and 1.8 m USB cable. Freight, duties and glass crating are quoted separately. Stock
 volumes change daily — confirm at the time of order.

3. Technical specification

Touch technology	Infrared light grid, 850 nm	Supply	5 V DC from USB, 120 mA idle / 320 mA peak at 40-point
Touch points	2 / 4 / 6 / 10 / 20 / 32 / 40 (controller dependent)	Bezel width	13 mm standard, 10 mm on request
Resolution	32767 × 32767	Frame material	Black anodised aluminium 6063
Positional accuracy	±1 mm typical, ±2 mm at 200 inch and above	Operating temp.	-20 °C to +70 °C
Report rate	100 Hz standard, 200 Hz optional	Storage temp.	-40 °C to +85 °C
Response time	< 12 ms	Light immunity	Up to 30,000 lux with filter strips fitted
Interface	USB 2.0 HID (USB / RS232 variants)	Certification	CE / FCC / RoHS

4. Host compatibility

Host	Driver	Max simultaneous	Note
Windows 10 / 11	None (in-box HID)	20	Descriptor declares the contact count
Windows 7 SP1 / 8.1	None (in-box HID)	10	Legacy digitizer path
Android 7 – 14	None	20 typical	RK3568 / RK3588 / Amlogic tested
Ubuntu / Debian / Yocto	hid_multitouch (kernel)	20	Enable CONFIG_HID_MULTITOUCH on custom images
ChromeOS	None	10	Works in kiosk mode
macOS	Not available	1	Pointer only — no HID multitouch path

Point count ceiling: a 40-point frame presents as a 20-point device on Windows 10 / 11 and current Android boards, because the host accepts what the HID descriptor declares. Tell us the host at the quotation stage and the controller is flashed to match — 20-contact for Windows, 40-contact for a Linux or Android build with its own input stack.

5. Custom and large format

- **Any size** from 15.6 to 400 inch, including non-16:9 ratios, portrait and square.
- **Curved frames** — constant-radius arc built from your radius and chord; first unit assembled on video.
- **L-shape and multi-panel** — one controller per surface, calibrated as a single desktop where the OS allows.
- **Knock-down supply** above 86 inch: four extrusions and four corner blocks, assembled with a 3 mm hex key.
- **Glass options** — 4 mm tempered, anti-glare, anti-reflective; supplied loose or pre-fitted.
- **Sealed builds** for outdoor terminals: IP54 gasket, heater and 30,000 lux immunity.

6. Ordering and logistics

MOQ	1 pc for standard sizes	HS code	8543.70.90 (touch frame module)
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Lead time	3–7 days from stock, 10–15 days for custom	Origin	Shenzhen, China
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Custom sample	7–10 days including drawing approval	Payment	T/T 30% deposit, balance before shipment
Packing	Foam-lined carton; crated above 86 inch	Warranty	24 months, controller and LED tubes

Customs classification depends on the importing country and on how the frame is declared. The code above is the one that applies to a touch frame module presented on its own; a frame built into a finished display is classified with the display. Confirm with your broker before the first shipment.

7. What ships in the box

- Frame, assembled or knocked down, with corner blocks and fixings
- Matched controller, pre-flashed to the host you specified
- 1.8 m USB cable (3 m and 5 m active available)
- Calibration tool and a printed quick-start card
- Wiring diagram and STEP model on request

Quotation: send the diagonal or the active area, the quantity at sample and production stage, and the host board. Reply within 12 working hours — info@wcimci.com.