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› Chengying 55 inch 10 Point Multi-Touch Infrared Touch Frame User Manual

Chengying CYS-55-p10

Chengying 55 inch 10 Point Multi-Touch Infrared Touch Frame User Manual

Model: CYS-55-p10

INTRODUCTION

This user manual provides comprehensive instructions for the installation, operation, and maintenance of your Chengying 55 inch 10 Point Multi-Touch Infrared Touch Frame. This product is designed to convert standard displays into interactive touchscreens, offering a versatile solution for various applications.

The infrared touch frame features a super thin frame design and supports 10-point multi-touch functionality. It is compatible with a wide range of operating systems, including Windows, Native Android, and Native Linux, offering plug-and-play convenience. For Mac OS, a specific HID driver installation is required.



Image: The 55-inch Chengying Infrared Touch Frame, showcasing its compatibility with various operating systems including Windows, Android, Apple, Linux, and Chrome OS.

Safety Information

Please read and understand all safety instructions before installing and operating the touch frame. Failure to follow these instructions may result in damage to the product or personal injury.

- Ensure the power source matches the voltage requirements (5 Volts).
- Do not expose the touch frame to excessive moisture or extreme temperatures.
- Handle the frame with care to avoid bending or damaging the internal infrared sensors.
- Keep the frame away from strong magnetic fields.
- Only use the provided components for assembly and installation.
- This product is designed for indoor use only.

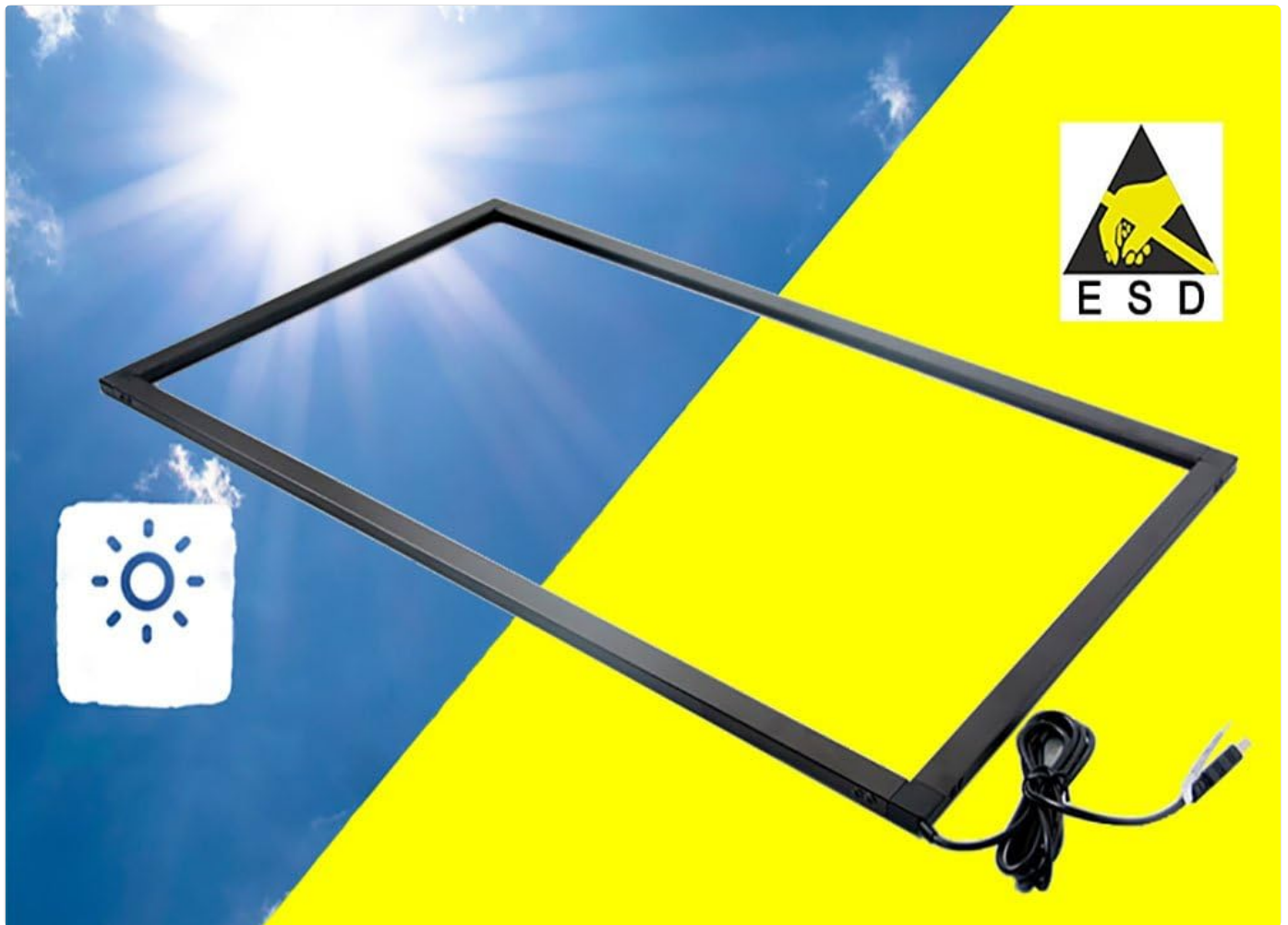


Image: The infrared touch frame shown with an ESD (Electrostatic Discharge) warning symbol and a sunlight icon, indicating considerations for environmental conditions and handling.

PRODUCT FEATURES

The Chengying Infrared Touch Frame offers advanced features for an enhanced interactive experience:

- **10-Point Multi-Touch:** Supports simultaneous touch inputs for collaborative and intuitive interactions.
- **Super Thin Frame Design:** Minimizes bezel intrusion for a sleek appearance.
- **Wide Compatibility:** HID plug & play driver-free for Windows, Native Android, and Native Linux. Mac OS requires specific driver installation.
- **Easy Integration:** Designed for straightforward installation onto existing displays.
- **Versatile Applications:** Ideal for digital signage, kiosks, exhibitions, TV channels, education whiteboards, command centers, boardrooms, and commercial transportation.



Image: A collage illustrating diverse applications of the touch frame, including medical devices, hospitals, product testing, retail, education, family entertainment, corporate meetings, government agencies, hotels, humanities and arts, R&D, and demonstration equipment.

SETUP AND INSTALLATION

Follow these steps to properly set up and install your infrared touch frame:

1. **Unpack Components:** Carefully remove all parts from the packaging. Verify that all four frame sections (two long, two short) and the USB cable are present. Each section is typically labeled for easy assembly.

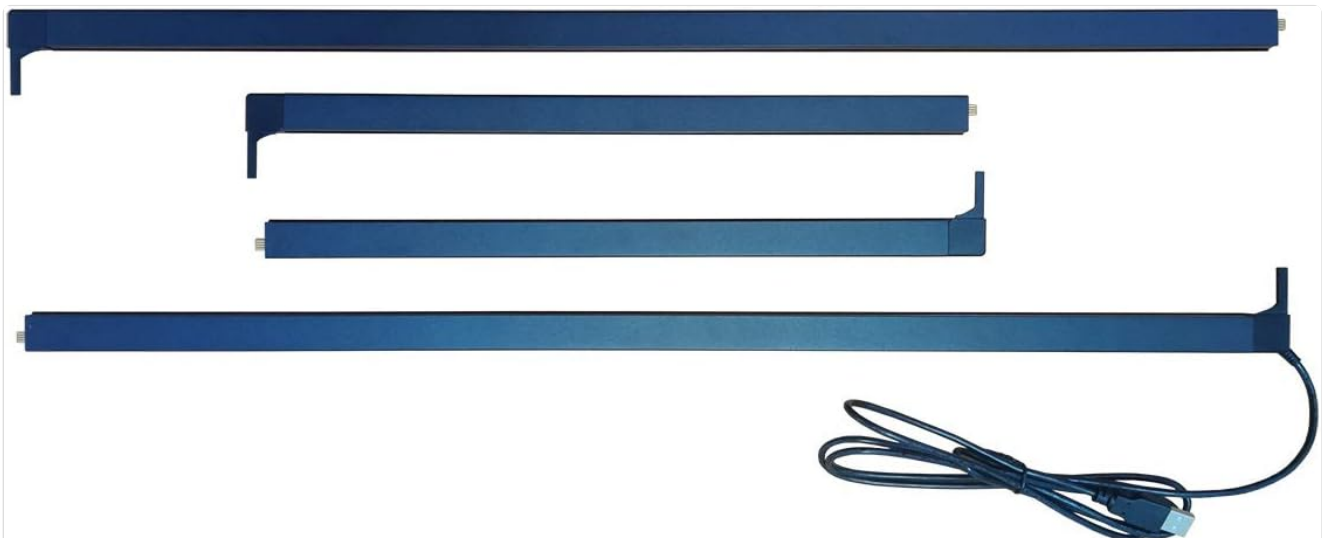


Image: The individual components of the touch frame, including the four frame sections and the USB connection cable, laid out for assembly.

2. **Assemble the Frame:** Connect the four frame sections together to form a complete rectangle. The sections are designed to interlock securely. Ensure the USB port section is correctly oriented for easy access.

Dimension And Drawing

Model: CYS-55-p10

S(Inch/mm)	54.75"/1390.82
W1	684.9 ± 1
W2	687.1 ± 1
W3	722.9 ± 1
L1	1210.5 ± 1
L2	1212.7 ± 1
L3	1248.5 ± 1
H	9.5 ± 0.2

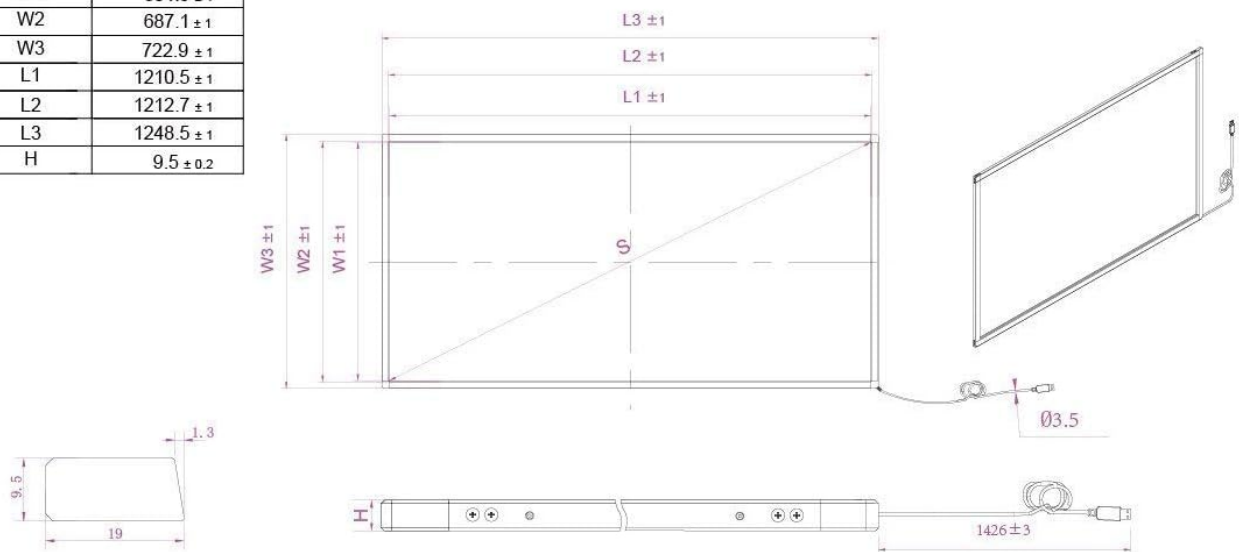


Image: A close-up view of the assembled touch frame, showing the connection points of the frame sections and the integrated circuit board.

- 3. Prepare Display Surface:** Clean the bezel of your display (monitor or TV) thoroughly to ensure the adhesive tape adheres properly.
- 4. Mount the Frame:** Carefully align the assembled touch frame with the edges of your display. The frame typically mounts using pre-applied double-sided adhesive tape. For larger frames, it is recommended to have two people for precise alignment. Once positioned, press firmly along the frame to secure it to the display. Note that the frame is designed to sit on the bezel, not over the active screen area, but ensure it does not obstruct any critical display elements like the taskbar if used as a computer monitor.
- 5. Connect USB Cable:** Plug the provided USB cable into the touch frame's port and then into an available USB port on your computer or device.



Image: A detailed view of the USB connection port on the touch frame, where the USB cable is inserted to provide power and data connectivity.

6. Driver Installation (if necessary):

- **Windows, Native Android, Native Linux:** The touch frame is HID plug & play. No additional drivers are typically required.
- **Mac OS:** You will need to install a specific HID driver for full functionality. Refer to the manufacturer's website for the latest driver downloads and installation instructions.

7. **Calibration (Optional):** While the frame often comes pre-calibrated, if you experience any inaccuracies in touch response, you may use calibration software provided by the manufacturer. This software can usually be found on the Chengying official website.

OPERATING INSTRUCTIONS

Once installed, the infrared touch frame functions as an extension of your operating system's input capabilities. Here's how to operate it:

- **Touch Interaction:** Simply touch the screen surface with your finger or a non-sharp stylus. The infrared technology detects the interruption of the light grid, registering a touch point.
- **Multi-Touch Gestures:** The 10-point multi-touch capability allows for various gestures depending on your operating system and application, such as pinch-to-zoom, two-finger scrolling, and multi-finger taps.
- **Accuracy:** The touch frame provides high accuracy. Ensure your fingers or objects are clean to prevent smudges on the display that might interfere with optical detection.

Maintenance and Care

Proper maintenance ensures the longevity and optimal performance of your touch frame:

- **Cleaning:** Use a soft, lint-free cloth to gently wipe the frame. Avoid abrasive cleaners or solvents that could damage the frame's finish or internal components.
- **Environmental Conditions:** While designed for various environments, avoid prolonged exposure to direct sunlight or extreme temperature fluctuations, which can affect performance.
- **Handling:** Do not apply excessive force to the frame or attempt to disassemble it.

Troubleshooting

If you encounter issues with your touch frame, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Touch input is unresponsive or erratic.	Loose USB connection. Interference with infrared sensors (dust, debris). Incorrect driver (Mac OS). Software conflict.	Ensure USB cable is securely connected to both the frame and the computer. Clean the frame's surface and the display bezel to remove any obstructions. For Mac OS, verify the correct HID driver is installed and updated. Restart your computer and try reconnecting the frame. Perform a calibration if available through the manufacturer's software.
Touch points are inaccurate or offset.	Calibration needed. Frame not perfectly aligned.	Run the calibration utility from the manufacturer's website. Ensure the frame is mounted squarely and evenly on the display.
Frame not recognized by the computer.	Faulty USB port or cable. Driver issue (Mac OS).	Try a different USB port on your computer. Test with a different USB cable if available. Reinstall the Mac OS driver if applicable.

Specifications

Detailed technical specifications for the Chengying 55 inch 10 Point Multi-Touch Infrared Touch Frame (Model: CYS-55-p10):

Feature	Detail
Brand	Chengying
Model Number	CYS-55-p10
Standing Screen Display Size	55 Inches
Screen Resolution (Touch)	32768 x 32768
Max Screen Resolution (Display)	7680x4320 or 7680x7680

Feature	Detail
Item Weight	3.3 pounds
Product Dimensions (LxWxH)	0.37 x 49.15 x 28.46 inches
Voltage	5 Volts
Aspect Ratio	16:9
Screen Surface Description	Glossy
Touch Points	10 Point Multi-Touch

Chengying CYS Series 24" to 84"
Product Dimension

Aspect	Size	Touch area		Outside Dimensions		
Ratio	Inch	H1(mm)	W1(mm)	H2(mm)	W2(mm)	T(mm)
16:9	24	307.3	531.5	345.3	569.5	8.7
16:9	26	325	578.7	363	616.7	8.7
16:9	27	336.8	602.3	374.8	640.3	8.7
16:9	30	378.1	667.2	416.1	705.2	8.7
16:9	32	395.8	702.6	433.8	740.6	8.7
16:9	37	466.6	820.6	504.6	858.6	8.7
16:9	42	526.1	933.2	564.1	971.2	8.7
16:9	43	531.5	944.5	569.5	982.5	8.7
16:9	46	572.8	1021.2	610.8	1059.2	8.7
16:9	47	590.5	1044.8	628.5	1082.8	8.7
16:9	49	608.2	1074.3	646.2	1112.3	8.7
16:9	50	620	1097.9	658	1135.9	8.7
16:9	55	684.9	1210.5	722.9	1248.5	9.5
16:9	58	722.3	1271.1	741.3	1290.1	9.5
16:9	60	749.8	1333.9	787.8	1371.9	9.5
16:9	65	808.8	1434.2	846.8	1472.2	9.5
16:9	70	873.7	1552.2	911.7	1590.2	9.5
16:9	75	932.7	1652.5	970.7	1690.5	9.5
16:9	82	1027.1	1817.7	1065.1	1855.7	9.5
16:9	84	1050.7	1864.9	1088.7	1902.9	9.5

Image: A table detailing the dimensions (in inches and millimeters) and touch area for various sizes of Chengying CYS Series touch frames, including the 55-inch model.

WARRANTY AND SUPPORT

For warranty information and technical support, please refer to the official Chengying website or contact their customer service. Keep your purchase receipt as proof of purchase for any warranty claims.

For additional assistance, you may visit the[Chengying Store on Amazon](#).

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Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

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