

PRODUCT SPECIFICATION

Foldable Screen IR Sensor Board

HD-IR-Sensor

Version 1.1

Update History

Version	Release time	Description
V1.0	May 28, 2026	First official release.
V1.1	July 23, 2026	Update the connection diagram of the sensor sub-board

1. Overview

HD-IR-Sensor adopts an MCU + infrared transmitter + infrared receiver architecture, connects to other devices requiring infrared control, and features infrared wireless data communication and data transmission functions. Combined with the sensor's state detection, it realizes automatic switching of display programs through the switching of folding states. It is applicable to scenarios such as exhibition promotion, shopping mall counters, event rental and stage performances, commercial retail and advertising promotion.

2. Features

1. Supports infrared transmission function.
2. Supports serial communication function.
3. Equipped with infrared wireless communication and data transmission functions.
4. Can control the switching between folded programs and unfolded programs for three-fold screens and two-fold screens.

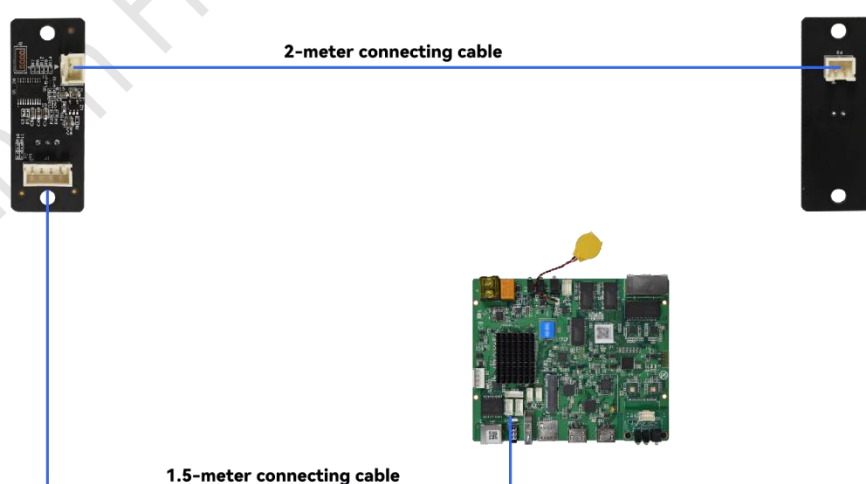
3. Parameters

Dimensions	52.8mm*20mm
Supply current	>100mA
Supply Voltage	DC 5V
Infrared Transmitter	Supports sending infrared signals

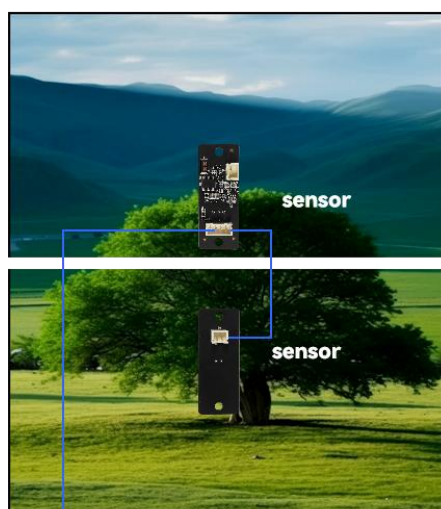
Infrared Receiver	Receives infrared signals and communicates with the transmitter
Communication Mode	Serial communication, 5V TTL level
Operating Temperature	-20°C-60°C
Software	HDPlayer LEDArt
Packaging	Packing List: 1×IR-Sensor Boards (including receiver board and transmitter board) 1×1.5 m Serial Cable 1×2 m Connecting Cable

4. Connection Diagrams

1. Connection Diagram



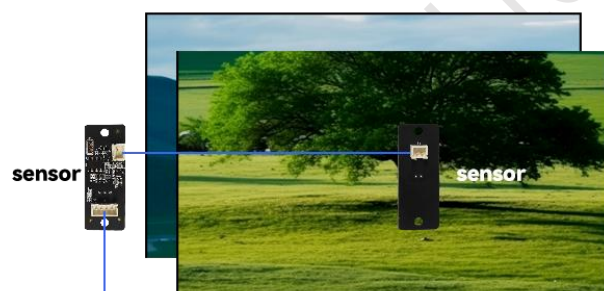
2. Two-fold Poster Screen



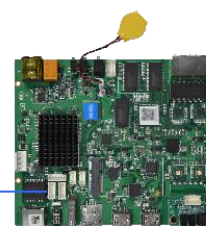
Vertical Fold LED Poster (Unfolded)



Sending Card



Vertical Fold LED Poster (Folded)



Sending Card

3. Three-fold Poster Screen



Tri-fold LED Poster (Unfolded)



Sending Card



Tri-fold LED Poster (Folded)



Sending Card

4. Dimension

