

# CK3000W\_B Wireless WIFI Extender

## Product Positioning

The CK3000W\_B is a high-performance **HDMI + USB + IR Signal Wireless WIFI Extender** under the KVM EXTENDER category. It integrates multi-signal wireless transmission, long-distance coverage, and flexible multi-device connectivity to address core pain points in scenarios like corporate meeting rooms, retail digital signage, multi-screen control centers, and remote office setups—where reliable remote signal extension and device control are critical.

## Core Features

### 1. All-in-One Wireless Signal Transmission

Simultaneously transmits four key signals without wired constraints:

- HDMI video signal (supports 1080P high-definition output for sharp visuals)
- USB keyboard/mouse signals (enables real-time remote control of host devices)
- IR (Infrared) signal (lets you control the near-end signal source via its original remote—no extra controllers needed)

### 2. Long-Distance & High-Definition Transmission

- **Maximum Distance:** Up to 200 meters in **open, line-of-sight environments** (note: obstacles like concrete walls, metal enclosures, or dense wireless interference may reduce effective range).
- **Resolution:** Supports up to 1920x1080 @60Hz (1080P), ensuring smooth, flicker-free video output for both work and entertainment.

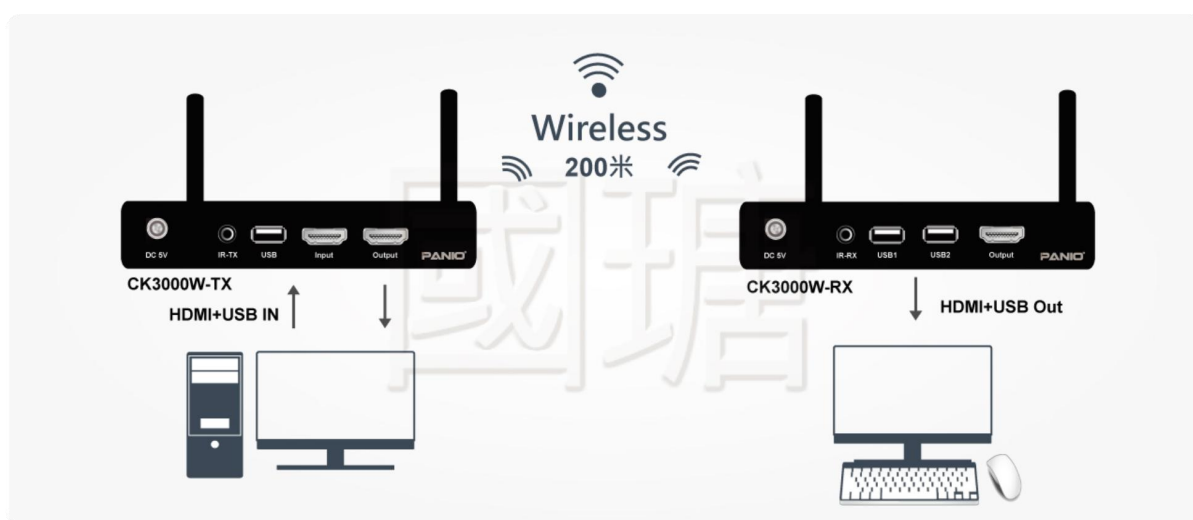
### 3. Dual-Frequency (2.4GHz/5GHz) Transmission

Adopts dual-band wireless technology to balance stability and speed:

- 2.4GHz band: Stronger anti-interference capability, ideal for complex environments (e.g., offices with multiple wireless devices) where signal stability is prioritized.
- 5GHz band: Faster transmission speed (low latency), perfect for high-definition video streaming and responsive keyboard/mouse operations.
- Optimized with advanced image processing algorithms and anti-interference mechanisms to minimize signal loss.

### 4. User-Friendly Design

- **Near-End HDMI Output:** The transmitter includes a built-in HDMI output port, allowing direct connection to a local monitor for real-time signal verification (avoids blind setup).
- **Dual Transmission Modes:**
  - Image Mode: Prioritizes crisp text display and low-latency input (suited for office tasks like document editing, data entry, or remote server management).
  - Video Mode: Optimizes for smooth audio-video synchronization (ideal for movie playback, live broadcasts, or digital signage).
- **Plug-and-Play Setup:** Pure hardware design—no software installation or complex configuration required. Simply connect devices and power on to use.



## Detailed Specifications

Model Name	CK3000W_B
Transmitter (TX) Interfaces	1 x HDMI Input, 1 x HDMI Output, 1 x USB Input, 1 x IR Port
Receiver (RX) Interfaces	1 x HDMI Output, 2 x USB Output, 1 x IR Port
Maximum Resolution	1080P @60Hz
Transmission Distance	Up to 200 meters (open, line-of-sight areas)

Wireless Frequency	2.4GHz / 5GHz
Protocol Standard	HDMI 1.3
Maximum HDMI Cable Length	1.5 meters (for input/output connections; longer cables may cause signal degradation)
Power Supply	DC 12V 1A
Dimensions (L×W×H)	315 × 160 × 36 mm

## Package Contents

- 1 × CK3000W\_B Transmitter (TX)
- 1 × CK3000W\_B Receiver (RX)
- 2 × 12V 2A Factory-Certified Power Adapters
- 4 × High-Gain Antennas
- 1 × Comprehensive User Manual

## Important Notes

- The 200-meter transmission distance and optimal performance are only achievable in **open, line-of-sight environments**. Walls, metal barriers, or other wireless devices (e.g., routers, printers) may cause signal attenuation.
- **Not compatible with industrial-grade USB input devices** (e.g., ruggedized keyboards for manufacturing use). Works seamlessly with standard consumer/office USB keyboards and mice.
- For reliable performance:
  - Use only the **factory-certified power adapter** (non-original adapters may lead to voltage instability or device damage).
  - Use **certified HDMI cables** (inferior cables can cause video distortion, audio dropouts, or signal loss).
- Do not connect uncertified devices in series (e.g., signal switchers, distributors, converters)—this may disrupt signal integrity and cause system failures.