

Wireless Presentation Gateway

WPG-100UP



DESCRIPTION

Taska WPG-100UP is a wireless display and collaboration product specifically designed for educational environments. It integrates advanced wireless technology to provide a powerful, cross-platform, all-in-one solution. The device fully supports major native wireless protocols like AirPlay, Miracast, and hardware dongles, enabling teachers and students to effortlessly wirelessly share multimedia content from various devices (Windows, MacOS, Android, iOS) to large-screen displays. It supports multi-screen display (up to 4 screens simultaneously) with flexible layouts at resolutions up to 4K, and features ultra-low latency transmission, dual-band Wi-Fi, and dual-network isolation for a smooth, stable, and secure wireless experience. Furthermore, the device comes with built-in interactive teaching tools such as a whiteboard, annotation, presenter mode, and reverse control.

PRODUCT FEATURES

- | Compatible with AirPlay, Miracast, and hardware dongles, WPG-HDMI-100 or WPG-USBC-100, for driver-free screen mirroring from Windows, MacOS, Android, and iOS devices.
- | Supports dongle mirroring, client-based mirroring, and cross-subnet screen sharing.
- | Computer users can easily adjust extended display settings, screen stretching, volume, and toggle full-screen or freeze screen mode.
- | Supports 4K video output with simultaneous display of up to 4 screens in customizable layouts.
- | Allows both mirroring and extended desktop sharing from Windows and MacOS computers.
- | Supports up to 14 connected devices with preview, and enables 4 large + 4 small screen hybrid display.
- | Allows drag-and-drop repositioning of all screens with various layout modes.
- | Achieves <100ms source-to-screen delay and as low as 20ms for mouse operations.
- | Provides synchronous stereo audio output compatible with sound systems.
- | Features physically isolated LAN and WiFi networks for enhanced security.
- | Utilizes IEEE802.11n/ac technology with speeds up to 1Gbps.
- | Implements WPA/WPA2 security with dual-band (2.4G/5G) wireless.
- | Dual-band WiFi module creates dedicated AP coverage.
- | Enables presenters to control their computer via USB or touch screen.
- | Sidebar controls enable presenter mode, student screen management, and built-in whiteboard/annotation tools.
- | Supports device setup via browser or Telnet for various parameters.
- | RS232 interface enables control of displays and integration with central control systems.
- | Features scheduled auto-reboot and sleep modes for stability.
- | Allows hiding of IP addresses and settings icons on the startup interface.
- | Supports custom 1080P background images with company branding.

SPECIFICATION

Technical		
HDMI Compliance	HDMI 2.0b	
HDCP Compliance	HDCP 1.4/ 2.2	
Video Output Resolution	3840×2160@60Hz, 3840×2160@50Hz, 3840×2160@30Hz, 1920×1080@60Hz, 1280×720@60Hz	
Video Input Ability	Miracast: Up to 1080P30, AirPlay: Up to 1080P30, Wireless Dongle: Up to 4K30	
HDMI CEC	Support	
Number of simultaneous connection	≤14	
Number of windows displayed simultaneously	≤4 + 4 (4 windows + 4 thumbnail windows)	
Latency	< 100ms, Min.~ 20ms	
Audio Input	Miracast, AirPlay, Windows, Mac, Wireless Dongle	
Audo Output	Analog, HDMI	
HDMI Audio Formats	LPCM 2.0CH, 16bit, 48k	
Analog Audio Formats	Left and right stereo analog audio	
	Audio Output Level	2.05Vrms
Analog Output	Frequency Response	(+0.5dB, -1dB) 20Hz ~ 20kHz
Audio Parameters	Audio S/N Ratio	>90dB@ Vo=2Vrms, BW=20kHz, A-weighted
	Audio THD+N	<0.05%@ Vo=2Vrms, 1KHz
Network		
Ethernet	Standard	1000Base-T (Supporting PoE)
	Encryption	IEEE 802.1x
WiFi	Standard	IEEE 802.11 a/g/n/ac
	Frequency Band	2.4GHz, 5GHz
	Antenna	4dBi, MIMO 2 x 2
	Encryption	WPA / WPA2
	Wireless Display Standards	AirPlay, Miracast, Dongle(WPG-HDMI-100 or WPG-USBC-100)
Connection		
Network	1 x LAN [RJ45, supporting PoE], 3 x SMA [Female]	
Output	1 x HDMI OUT [Type A,19-pin female], 1 x AUDIO OUT [3.5mm stereo jack connector]	
Control	1 x RS-232 [3pin-3.5mm Phoenix connector], 1 x USB [USB 3.0 Type A]	
	1 x USB [USB 2.0 Type A, for pairing], 1 x USB-C [USB 2.0, for pairing]	
Mechanical		
Color	Black	
Dimensions	220mm [W] × 119mm [D] × 31mm [H]	
Weight	930g	
Electrical		
Power Consumption	10W (MAX)	
Power Supply	5.5mm x 2.5mm jack: DC 12V/3A; PoE+ (IEEE802.3at Class 4)	
Environment		
Operating Temperature	0°C ~ 40°C / 32°F ~ 104°F	
Storage Temperature	-20°C ~ 60°C / -4°F ~ 140°F	
Operating Humidity	20~80% RH (Non-condensing)	
Storage Humidity	10~90% RH (Non-condensing)	