P3 Wireless Bonding Encoder

Product Data Sheet

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P3 is a new generation wireless aggregate encoder created by Kiloview based on KiloLink transmission technology. P3 supports simultaneous multi-channel wireless aggregation connections: WIFI (2.4G/5G dual-band), Ethernet; the dual-battery module has a total capacity of 6000mAh @7.2V 43.2W, and can last for more than 4 hours without changing the battery. It also supports uninterrupted power supply and battery replacement for all-day operation; the WIFI communication module, recording storage module, and battery module are all modularly designed, with reserved interfaces for USB for optional selection.
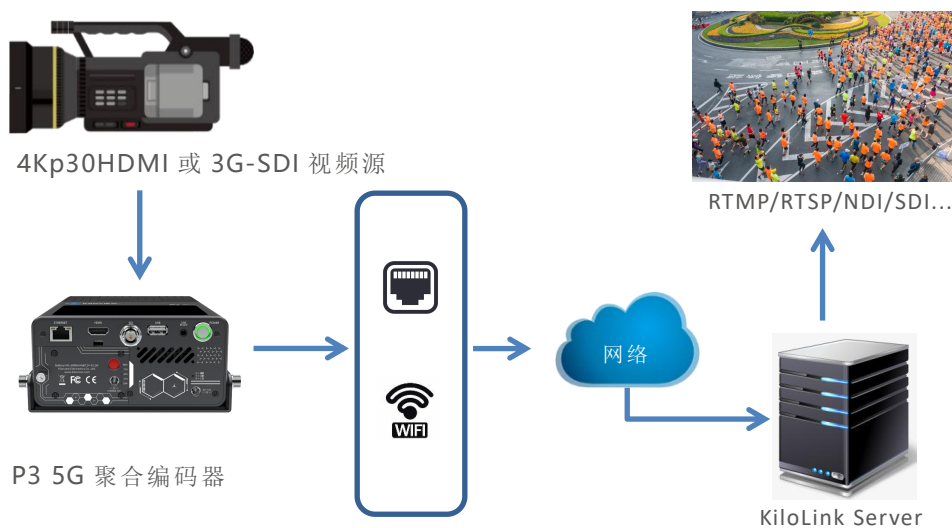
P3 is equipped with 3G-SDI and HDMI video input interfaces, supporting video input of up to 4Kp30, H.264/H.265 encoding. With the free KiloLink Server software, it achieves aggregate services and provides various media access protocols such as RTSP/RTMP/SRT/HLS and NDI.

P3 Product Features

◆ Simultaneous multi-channel wireless aggregation connections: WIFI (2.4G/5G dual-band), Ethernet.

◆ Dual battery capacity of up to 6000mAh @7.2V 43.2W, providing more than 4 hours of operation without replacement.

◆ Battery module supports hot-swapping for uninterrupted power supply.

◆ Modular design allows flexible selection as needed (reserved interfaces for 4G/5G communication modules, WIFI communication module, recording storage module, and battery module).

◆ 4.3-inch touch display.

◆ Video input up to 4Kp30, with H.264 (AVC) and H.265 (HEVC) encoding.

◆ Supports 3G-SDI and HDMI 1.4b video input interfaces.

◆ Audio support includes analog input (3.5mm), HDMI (up to 4 channels), and SDI (up to 8 channels).

◆ Supports Kilolink Server for streaming media forwarding services and network push applications.

◆ Live streaming backpack form factor, offering flexible and lightweight application.

Typical application diagram

4Kp30HDMI 或 3G-SDI 视频源

RTMP/RTSP/NDI/SDI...

P3 5G 聚合编码器

网络

KiloLink Server

P3 Product Specifications

Features and Performance	
Video Resolution Support	HDMI ： 3840×2160p 30fps 1920×1080p 23.98/24/25/29.97/30/50/59.94/60fps 1920×1080i 50/59.94/60fps 1280×720p 29.97/30/50/59.94/60fps 720×576i 50fps (PAL SD) 720×480i 59.94fps (NTSC SD) SDI ： 1920×1080p 23.98/24/25/29.97/30/50/59.94/60fps 1920×1080i 50/59.94/60fps 1280×720p 25/29.97/30/50/59.94/60fps 720×576i 50fps (PAL SD) 720×480i 59.94fps (NTSC SD)
Encoding Formats	H.264(AVC): Baseline/Main/High profile, Level 5.1 H.265(HEVC): Main profile, Level 5.0
Streaming Protocol Support	Multiple media protocols including NDI|HX, RTMP, SRT, RTSP, HLS, and TS over UDP (with Kilolink Server aggregation platform)
Aggregation Performance	WIFI (2.4G/5G dual-band), wired Ethernet port, USB extended wired connection
Recording Function	Local recording via Micro SD card slot, USB extended hard drive recording
Text and Image Overlay Function	Supports customizable text and image overlay, which can be placed anywhere on the screen
Voice Intercom	Supported, integrated with Kiloview Intercom Server (KIS)
General Parameters	
Video Input Interfaces	1* HDMI 4K@30fps input
	1* 3G-SDI 1080P@60fps input
Audio	4-channel SDI signal embedded audio input and output
	4-channel HDMI signal embedded audio input and output
	1* 3.5mm Line in/out audio interface
Modular Design	Modular, flexible combination design (WIFI communication module, recording storage module, and battery module)
Display and Indicators	4.3-inch LCD touch display
Network Interface	1×10M/100M/1000M RJ45 Ethernet port, supports POE (IEEE 802.3af Class 3)
Management Methods	Web operation/KiloLink Server remote management
Battery Capacity	Dual battery module design, up to 6000mAh @ 7.2V 43.2W
Power Supply	DC 12V/3A input
Dimensions	211.20x143.00x68.00mm
Weight	1900g

FCC Statement:

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

(1) This device may not cause harmful interference, and

(2) this device must accept any interference received, including interference that may cause undesired operation.

Any Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

-Reorient or relocate the receiving antenna.

-Increase the separation between the equipment and receiver.

-Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

-Consult the dealer or an experienced radio/TV technician for help.

This device complies with FCC radiation exposure limits set forth for an uncontrolled environment. This device should be installed and operated with minimum distance 20cm between the radiator & your body.