



## 4K Impact Codec



The 4K Impact Codec is designed to enhance communication and collaboration in business meetings, remote education, and emergency command setups. With dual 4K UHD video output at 60FPS, it delivers high-definition visuals, even in low-bandwidth environments. The integrated MCU supports multipoint conferencing, making it ideal for small to medium-sized enterprises. The terminal also offers advanced audio processing and remote recording features, making it a comprehensive solution for professional conferencing needs.

## Key Features

- Dual 4K UHD Video Output:** Supports dual-channel 4K UHD video output with 60FPS for crystal-clear video quality, even at low bandwidths.
- Embedded Software MCU for Multipoint Conferencing:** Multipoint Control Unit (MCU) enhances collaboration by enabling seamless multi-party conferencing for small and medium enterprises.
- Multi-Platform Compatibility:** Supports standard SIP and H.323 protocols and is compatible with popular software-based Video Conferencing, offering flexible conferencing options.
- Advanced Audio Processing:** Equipped with Automatic Echo Cancellation (AEC), Automatic Gain Control (AGC), and noise suppression (ANS) for clear and balanced audio in meetings.
- Remote Recording & Broadcasting:** Enables secure recording and broadcasting on a PC or via USB, ensuring meeting records are safe and confidential.

## General Specifications

### Standards & Protocols (Optional)

**Multimedia Framework Protocol** : ITU-T H.323, IETF SIP

**Video Codec Protocol** : H.261, H.263, H.263+, H.263++, H.264, H.264 High Profile, H.265

**Audio Codec Protocol** : G.711, G.722, G.722.1, G.722.1C, AAC-LD, G.726, SILK

**Dual-Stream Protocol** : ITU-T H.239, BFCP

**Other Communication Protocols** : H.221, H.224, H.225, H.235, H.241, H.245, H.281, H.350, H.460, T.140, DTMF

**Network Transport Protocol** : TCP/IP, DHCP, SSH, HTTP, HTTPS with SSL/TLS, RTP, RTCP, RFC3261, RFC3264, RFC2190, RFC3407, RFC2833, RFC4585 (RTF/AVPF), SNTP, ARP

### Interfaces

#### Audio Input Interface

- 1 x 3.5mm Linear Input
- 1 x XLR microphone input,
- 1 x RJ45 Digital microphone input
- 1x USB
- 1 x HDMI Audio

#### Audio Output Interface

- 1 x 3.5mm linear output
- 2 x HDNI Audio output
- 1 x USB

#### Video Input

- 2 x HDMI
- 1 x USB
- 1 x VIDEO (PoE TOUCH Port)

#### Video Input Interface

- 2 x HDMI
- 1 x USB
- 1 x VIDEO (PoE TOUCH Port)

**USB Interface** : 2 x USB3.0 (supports USB flash drive, USB microphone, etc.)

#### Network Interface

**2x RJ45** : 10/1000 Base-T, Touch/DMIC

**1 x Wireless** : 802.11 b/g/n

Wi-Fi (Optional)

**Other** : OLED display IP and registration number, Wireless screen projection, 4K dual screen display

**Bandwidth (IP)** : 64Kbps – 8Mbps

### Video Features

#### Active Image Resolution

- 4K30, Minimum Bandwidth 2048Kpbs
- 1080p, Minimum Bandwidth 512Kpbs
- 720p, Minimum Bandwidth 384Kpbs

#### Data Content Resolution

- **Enter** : VGA (640x480), SVGA (800x600), XGA(1024x768), WXGA(1280x768), WXGA (1280x800), 1280x960, SXGA(1280x1024), 1360x768, 1366x768, 1440x900, 1600x900, 720p(1280x720), 1080p(1920x1080), 3840x2160
- **Codec** : 800x600, 1024x768, 1280x1024, 1280x720,1920x1080, 3840x2160
- **Output** : 800x600, 1024x768, 1280x1024, 1280x720,1920x1080, 3840x2160

**Dual Flow of Activities** : Dual 4K30

**Other Image Properties** : Support PIP, POP Equal display mode

### Embedded Software MCU

**Embedded Multipoint Calling Software** : 1+5 and 1+8 (Optional)

### Wireless Sharing (Optional)

- Transmitter Dongle for Sharing Screen into the Conference.

### Audio features

#### Audio Characteristics

- Automatic Echo Cancellation (AEC),
- Automatic Gain Control (AGC),
- Automatic Noise Suppression (ANS),
- Supports lip sync

## General Specifications

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### General Characteristics

#### Size

- Terminal size: 348mm x 148mm x 37mm
- Package Size: 413mm x 332mm x 130mm
- net weight: 1.4Kg
- Gross Weight: 2.2Kg

#### Electrical Characteristics

- **Operating voltage** : DC 12V, Maximum power consumption : 54W

### Environmental Requirements

**Temperature:** 0° C – 40° C (working status),  
-40° C – 70° C (non-working status),

**Relative humidity** : 10% – 80% (working status),  
0% – 95% (non-working status),

**Ambient noise** : less than 46dBA SPL,

**Minimum illumination** : 5lux,

**Recommended illumination** : greater than 300lux

## Ordering Information

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- Codec (Stand alone) – PPL-CD-OPS-14

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## SALES AND INQUIRIES

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