Prestel HD-15KIT

Intelligent Conference Terminal

USER MANUAL

Intelligent Conference Terminal

is an intelligent audio and video conferencing all-in-one device based on Android 8.1 system, supporting Ethernet/WIFI/Bluetooth connection, integrated with 4 array microphones and HD cameras. It supports HD audio and video calls and it is easy to deploy and operate, which is suitable for daily meetings, remote education, remote training and other application scenarios.

HD voice with Audio processing technology

1）Array microphone algorithm can sample and process the spatial characteristics of the sound field. It can remove the ambient background sound to the maximum extent, leaving only the required sound waves.

2）180° intelligent sound pickup with 5 meters range, no apparent volume and sound quality decline in 3m. 3）48KHz uplink and 48KHz downlink audio sampling rate;

4）Perfect full-duplex so that two-way communication will no longer stuck

5）Clearer voice with intelligent dynamic noise reduction

6）the maximum instantaneous value of the speaker can be up to 92dB (0.5m), enabling the sound to be heard more clearly.

High-quality video experience, the participation will be more clear and true

The 1080P high-definition camera configured by provides users with high-quality Internet video conferencing and high-definition real-time synchronized pictures. In the use of broadband networks, the video images are clear and smooth, and the voice calls are clear and natural; as clear and true as face-to-face communication.

Based on Type C connection and you can start a meeting without complex wiring and configuration, just plug and play.

- Array microphone algorithm
  Realize spatial filtering and better
  suppress environmental noise

- HD audio
  48KHz pickup and 48KHz playback high-reduction vocals; the sound is clearer and more pure;
  face-to-face meeting experience

  Perfect full-duplex
  More natural and smooth in two-way communication,5m distance voice pick up

- The audio processing algorithm 180° high
  coverage, long distance voice pickup Upgrade full
  duplex technology
  The 384ms echo cancellation
  Dynamic noise reduction

- The lens is mechanically adjustable
  The lens can be adjusted up
  and down in small increments
  to adapt to a variety of
  conference scenes, making
  shooting more flexible

Components
·host
·Fly mouse Remote Control
·Power Adapter
·HDMI cable
interface
· USB2.0 interface
· USB3.0 interface
· HDMI interface
· Power connector
·RJ45 10M/100M/1000M Ethernet interface

Color
·Black

Size
420*83.8*98.7mm

Microphone
·Omni microphones*4
·Frequency response:
100Hz-24000Hz
· Sensitivity:
 -38 dB
  94dB SPL@1KHz
SNR: 65dB
  94dB SPL@1KHz，A-weight

Speaker
·2 inch anti-magnetic horn
·4Ω8W
·100Hz-24000Hz

System Configuration
·Android 8.1
·4GB memory, 16G storage
·6-core CPU with a maximum
frequency of 1.8G

Features
·WiFi connection
·Ethernet connection
·Integrated Bluetooth 5.0, support Bluetooth
·Support real-time communication video conferencing software
·Support external mouse and other USB devices

Power
· DC 12V/2A
@ 100~240VAC,50/60Hz
Lens
·fixed focus, F1.8,
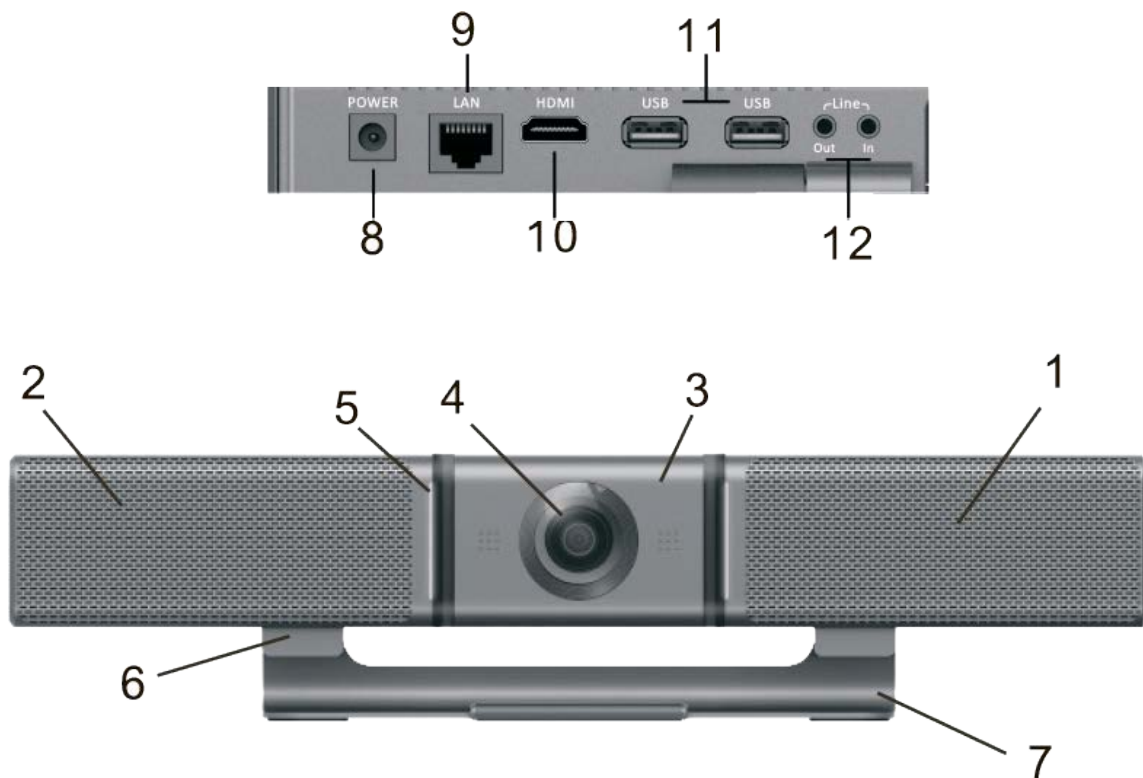120 degree Angle
Image Sensor
1 / 2.5 ', 8.5M pixels CMOS sensor

Audio
·384ms echo cancellation
·Dynamic noise reduction
·Full duplex
·180 degree pick-up range
·DSP audio processing

·Maximum image transmission rate
·MJPG@30FPS
·YUV@5FPS
Focusing distance
·50CM～500CM (best)

Recommended conditions
·temperature：5°~44°
·humidity：20~85% condensation free
·noise level：<48db
·storage temperature：-10°~55°
·Reverberation time:<0.5 seconds

Product execution standard
·YD/T 993-1998
·GB/T 9254-2008
·GB 4843.1-2011

Interfaces of Prestel HD-15KIT

1 - Speaker

2 - Microphone array

3 - Wide camera

4 - Lens

5 - Status indicator

6 - Bracket

7 - Adjustable bracket stand

8 - Power interface

9 - RJ45 network interface

10 - HDMI interface

11 - USB2.0 and USB3.0 (blue) interfaces

12 - Line in/out