

CASTELLUM All-In-One Video Conference Camera

Productoverzicht

CASTELLUM is een alles-in-één USB-apparaat voor videoconferenties voor kleine tot middelgrote teams. Dit product heeft een ultrabreed horizontaal beeld van 100 ° en ondersteunt videogesprekken in Full HD. De ingebouwde omnidirectionele microfoons met 4 elementen, aangepaste breedbandluidspreker die is geoptimaliseerd voor menselijke stem, maakt full-duplex tweewegcommunicatie van 5 meter en stabiele HD-audio- en videoconferentie-ervaring mogelijk.

CASTELLUM maakt gebruik van een camera, microfoons en een luidspreker in één enkel apparaat. Functies zoals USB plug & play, algemene compatibiliteit met toonaangevende online conferentieplatforms, maken de **CASTELLUM** tot een uitstekende keuze voor vergaderruimten met 1-8 personen en een efficiëntieversterker voor online communicatie voor alle bedrijfsteams.

All-In-One Video Conference Camera



Belangrijkste kenmerken

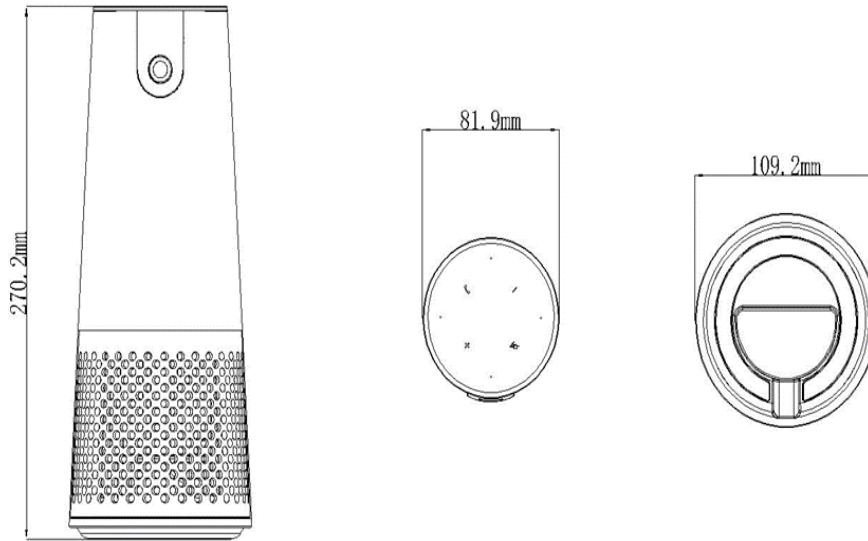
Omnidirectionele 4 microfoons array-algoritme, 5 meter verre veld duidelijke spraakopname
Exclusieve AI-ruisonderdrukkingstechnologie, verhoogt de concentratie van conferentiedeelnemers aanzienlijk

Echte full-duplex, ononderbroken communicatie

100 ° full HD groothoekcamera, persoonlijke conferentie-ervaring

Plug & play, algemene compatibiliteit met toonaangevende online conferentieplatforms

Audio en video alles-in-één, intuïtieve bedieningservaring



Product Overview

Circular Status Indicator

- Yellow Light: device initiation
- Blue Light: normal operation
- Red Light: microphone muted
- Orange Light: camera turned off

4-Element Omnidirectional Microphones Array

360° High-quality Wideband Speaker

Touch Buttons

- one-click microphone mute and camera off
- volume adjustment

100° Ultra Wide-Angle Camera

- fixed focal length: 2.96mm
- 1080p

Matte Pearl White Body

- Anti-fingerprint
- Prevent from knocked over by wide bottom & narrow top

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Key Requirements Analysis

Small group team meetings are usually used for informal collaborations (such as brainstorming, mobile officing, etc.), discuss matters with clients or partners (such as sales presentations), remote interviews, and other **flexible application scenarios**.

For these small group team meetings, **how to pick up video conferencing devices?** Which factors will influence the success of the video meeting?



Foolproof operation-one click to attend the meeting

- USB Plug-and-play
- Compatible with various platforms



See every attendee and see the meeting image clearly

- Ultra wide-angle
- High-quality resolution



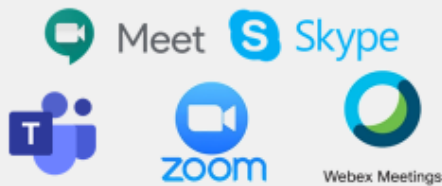
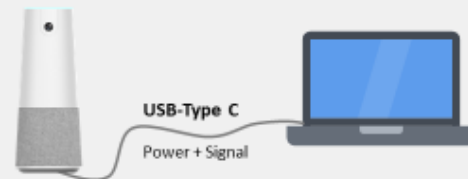
Hear every attendee clearly

- Full-Duplex
- Echo Cancellation
- High voice pickup distance
- Noise Suppression

Easy-to-use

USB Plug-And-Play

Without complex configuration, A30T can be set up within 3 seconds by just connect to laptops/PCs over a single USB cable.



Compatible with various platforms

A30T is compatible with all of the current **mainstream video conference platforms** such as Zoom, Microsoft Teams, and Google Meet.

Support systems: Mac OS, Windows7, Windows 10 and Linux

See Clearly

Ultra wide-angle

With the 100° horizontal wide-angle camera, up to 8 attendees can be on the camera together.

High-quality resolution

The full HD camera with non-distortion provides attendees a seamless conference experience with 1080p resolution.



1080p



Hear Clearly

Full-Duplex

A30T supports **full-duplex** mode, transmission is simultaneously bi-directional which means attendees from the proximal end and distal end can communicate seamlessly.

With the full-range speaker, the full-duplex mode can make bi-directional attendees take long calls without fatigue.



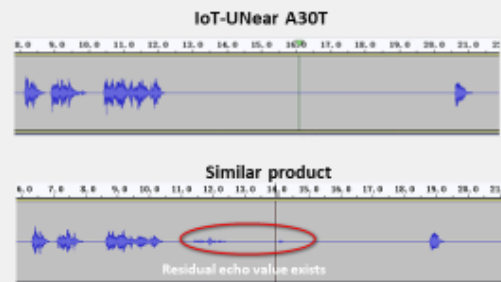
Echo Cancellation

Embedded AI algorithm can realize **echo-cancellation**, when attendees from the proximal end and distal end switch on the microphone, all of them won't hear their own voice.

A30's $erle \geq 30\text{dB}$

With a higher $erle$ (echo return loss enhancement) value, the relative value of residual echo value is smaller which means the echo cancellation effect is better.

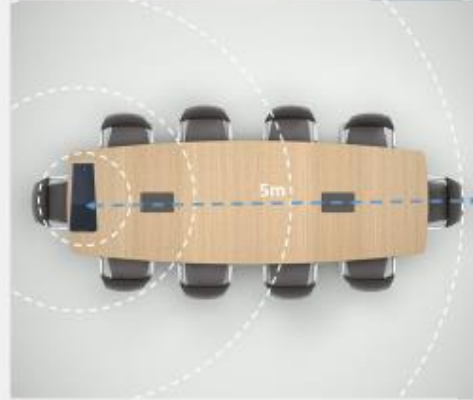
- Speex & Webrtc $\leq 30\text{ dB}$



Hear Clearly

Far-field Clear Voice Pickup

Normal pronunciation dB of attendees are between 75~80dB, A30T's effective pickup distance is **5 meter** in the 75dB condition.



Noise Suppression

Embedded **AI algorithms** can effectively suppress ambient noises such as mouse/keyboard tapping sound and running sound of computers and air conditioners.

Different from other products, the noise-suppression principle of A30 is "voice gain, noise suppression". In such a principle, communications can be extremely comfortable.

Application Industries



Corporate



Healthcare



Education

ArtGuard Security

The Point where Life & Science Interact



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