

# Nearity 120 Max Conference Camera



4K HD Image



120° View Angle



Wireless Dongle



Auto Framing



4 Omni-Mics



5X Zoom

The Nearity 120 Max is a premium all-in-one 4K video conferencing device powered by an advanced Sony sensor and intelligent noise cancelling tech. It captures an expansive 120° field of view and auto framing function, bringing every participant into sharp, distortion-free view. Equipped with a built-in 4-mic array and enhanced by AI noise suppression, echo cancellation, and AGC, 120 Max ensures exceptional voice clarity throughout small to mid-sized meeting spaces. With effortless wireless dongle and USB-C plug-and-play setup, you can launch meetings instantly from any PC or Mac. Designed for the era of hybrid collaboration, 120 Max delivers professional-grade performance in one streamlined device—making advanced video communication simpler than ever.

## Product features

### 4K Ultra HD with 120° Wide-Angle View

Engineered with a premium 4K sensor and a 120° ultra-wide lens, Nearity 120 Max delivers lifelike detail and vivid color accuracy across every inch of the meeting room. Whether it's a 4-person discussion or a 15-seat boardroom, every participant appears clear, natural, and in perfect focus.

### AI-Powered Audio Clarity

Features a built-in 4-unit MEMS microphone array providing 360° voice pickup. Advanced audio processing—including AI Noise, Echo, and Reverberation Cancellation, Beamforming, and AGC—guarantees crystal-clear voice capture by filtering out unwanted background noise. A complimentary external mic is included for easy expansion, ensuring clear communication from any seat in the room.

### Intelligent Auto-Framing Modes

Nearity 120 Max automatically detects participants and adjusts framing in real-time — keeping the focus on active speakers and ensuring everyone stays in view. Its advanced AI engine intelligently adapts to different room layouts and lighting conditions, creating a seamless, professional meeting experience every time.

### Immersive Full-Duplex Sound

Experience smooth, natural conversations with the integrated full-duplex speaker (140Hz–20kHz), delivering powerful, room-filling sound. Combined with advanced AI noise suppression, echo cancellation, and voice enhancement, Nearity 120 Max ensures your message is heard clearly — without distractions, distortions, or lag.

• 120° View Angle

• AI noise, echo and Reverberation cancellation

• 4-units MEMS Mics

• External Mic

• Auto Framing

• HiFi Speaker

• Full-Duplex

### Simple Plug-and-Play Connectivity

Nearity 120 Max connects instantly via wireless dongle or USB cable — no setup, drivers, or software needed. The included remote control and intuitive on-device buttons make it easy to manage volume, AI framing, and other settings on the fly. Say goodbye to cable clutter, just plug, connect, and collaborate.

- Plug & Play
- Wireless Dongle

## Nearity 120 Max Datasheet

Camera	Aperture	F2.0
	Sensor	Star-VIS Sensor, 8MP
	Focusing Mode	Fixed focus 2.0mm
	FOV	120°
	Non-Distortion Lens	Support
Video	Max Resolution	USB Output 4K Dongle NA20 Output 1080P(Optional)
	Aspect Ratio	16: 9
	Coded Format	YUY2: MAX 480P@30fps MJPEG: MAX 4K@30fps, 1080P@60fps
	Digital Zoom	5x
	Anti-Flickering	Support
	Auto-Exposure	Support
	Auto White Balance	Support
	Auto-Framing	Support
	3D Noise Suppression	Support
HDR	Support	
Microphone	Microphone Type	4-unit Omnidirectional MEMS microphone
	Sensitivity	-38dBV/Pa 94dB SPL@1kHz
	S/N	68dBV/Pa 94dB SPL@1kHz, A-weighted
	THD (Total Harmonic Distortion)	0.2%@94dB SPL @1kHz
Speaker	Rated Output Power	4Ω/3W
	Effective Frequency Response	140Hz ~20kHz
	Speaker Volume	80±3dB (800,1000,1200,1500Hz) @1W/1M
	THD (Total Harmonic Distortion)	≤3%
Audio Performance	Speaker Tracking	Support
	Beamforming	Support
	AI Noise-Cancellation	Support
	Echo-Cancellation	Maximum echo coupling loss ≥56dB
	Reverbration Suppression	RT60<1s
	Full-duplex Communication	Support interrupt at any time
	AGC	Intelligent voice gain within a radius of 5 meters
	Maximum Background Noise Suppression	30dB
	Effective Pickup Range (Standalone Unit)	5m Radius
Effective Pickup Range (With Optional Extension Mic AM01)	16m (Connect two AM01 mics)	
Dimensions	Product Dimensions	(Φ) 4.33in* (H) 11.26in
	Package Dimensions	6.10*5.43*15.4in。
	Net Weight	1.31lb
	Gross Weight	2.85lb

# Nearity 120 Max Datasheet

<b>Others</b>	External Power Supply	DC 12V-2A
	USB Port	USB cable + type C-A cable (2m)
	3.5mm Port	Connect AM01 External Microphone
	IR Remote Control	Support
	Compatible operating systems	Windows/ Mac/ Linux/ Chrome
	Installation	Tabletop; Tripod
	Color	Gunmetal Grey
	Packing List	Nearity 120 Max*1, AM01 External Microphone*1, Remote control*1, USB cable + type C-A cable(2m), Adaptor, User Manual*1, Warranty Card*1

\*All tech specs are subject to change without notice.