



Conference Echo Canceller

PJP-EC200

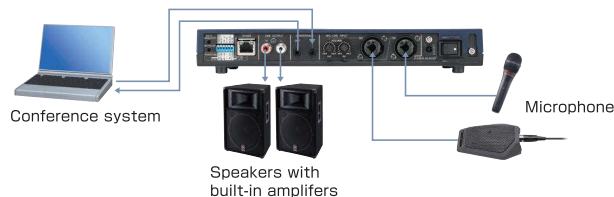
An external echo cancelling device that supports a variety of applications and environments for remote conferencing and remote lectures.

Large conference rooms



Connecting a microphone speaker directly

No mixer required—with its 2 channel mixing function, you can connect a microphone directly to the PJP-EC200.



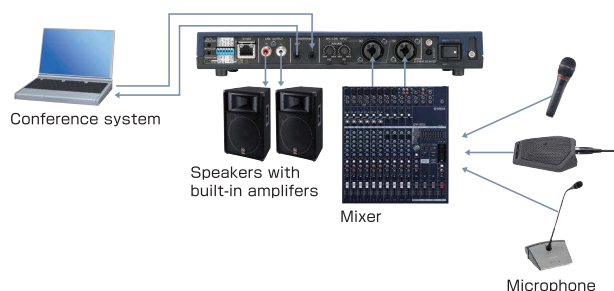
Assembly rooms



Connecting through a mixer

Mixers and other PA equipments can be connected to accommodate three or more microphones.

* Speakers can also output via the mixer.



Adaptive echo canceller

- 100 Hz-20,000 Hz bandwidth
- Also supports handheld and lapel microphones for movement while speaking.
- The 2 channel echo canceller enables combinations of different microphones (such as boundary and handheld microphones), or use in large conference halls.

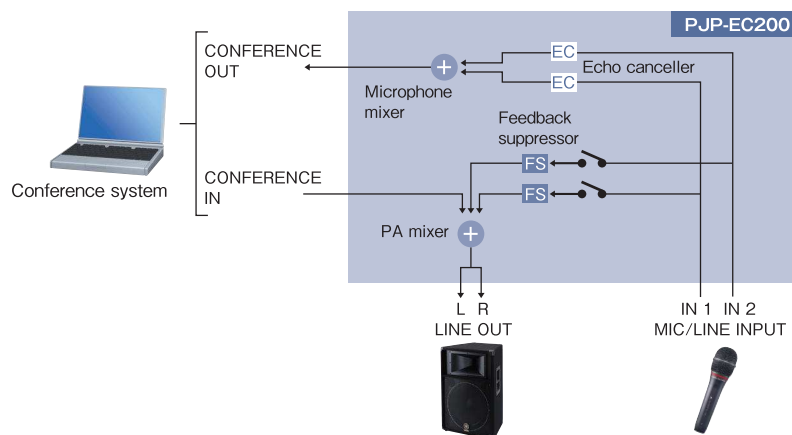
Variety of audio technologies

- Advanced feedback suppressor supports the PA functionality needed for two-way remote lectures and seminars.
- Two-way noise canceller delivers clear, noise-free calls.
- Auto gain control maintains consistent pickup level regardless of the distance between talker and microphone.

Highly adjustable

- Settings easily changed on the main unit using dip switches.
- GUI provides detailed adjustment of noise reduction, feedback suppression, and other settings.
- Auto analyzer makes installation easy by measuring and adjusting microphone-to-speaker distance and feedback suppression.

Block diagram



Dimensions



- ① Auto analyzer button ④ Ethernet (for setup) ⑦ Mic level controllers
- ② Initialize button ⑤ Line output ⑧ Phone or XLR
- ③ DIP switch (for setup) ⑥ Stereo mini ⑨ AC adapter

Detailed specifications

Conference Echo Canceller PJP-EC200					
General	Interfaces	LINE OUTPUT (L/R): Stereo RCA pin-jacks CONFERENCE (IN/OUT): Stereo mini jacks MIC/LINE INPUT: XLR/PHONE combo jacks 2 ch (48-V phantom power supply supported)			
	Max. power consumption	6 W or less			
	Radio interference standard	VCCI Class A,			
	Operating environment	Operating temperature: 0°C to 40°C Operating humidity: 15% to 85% (no condensation)			
	Dimensions	270mm x 42.6mm x 180mm (not including cables and terminals)			
	Weight	753 g (excluding power adapter)			
	Power supply	AC 100 to 240 V (50/60Hz)			
	Accessories	AC adapter x 1, Power cable x 1, CD-ROM x 1, Installation/Setup Manual x 1			
Audio	Signal processing	Adaptive echo canceller, Feedback suppressor, Noise reduction, Auto gain controller			
	Frequency range	100 to 20,000 Hz			
	Arrival time of direct sound	120 ms maximum			
	Echo cancelling time	400 ms maximum			
	Echo cancelling capacity	60 dB maximum			
	Noise reduction	17 dB maximum			

Input specifications	Terminal	Specification	Input level		Input impedance
			Rated input level	Maximum input level	
	MIC/LINE IN 1 - 2	XLR, balanced, IN 1 & 2 (MIC)	-60 dB μ to -20 dB μ	-6 dB μ	3 k Ω
		XLR, balanced, IN 1 & 2 (LINE)	-30 dB μ to +10 dB μ	+20 dB μ	50 to 600 Ω
		PHONE, unbalanced, IN 1 & 2 (MIC)	-60 dB μ to -20 dB μ	-6 dB μ	2.4 k Ω
		PHONE, unbalanced, IN 1 & 2 (LINE)	-30 dB μ to +10 dB μ	+20 dB μ	
Output specifications	CONFERENCE IN	Mini jack, unbalanced	-7.8 dB μ	0dBu	15k Ω
	The XLR jacks support phantom power (+48 V) 0 dB μ = 0.775 Vrms, 0dBV = 1 Vrms				
	Terminal	Specification	Output level		Output impedance
			Rated output level	Maximum output level	
Output specifications	MAIN OUT	RCA pin jack, unbalanced,	-10 dBV	-3 dBV	600 Ω
	CONFERENCE OUT	Mini jack, unbalanced, CONF.OUT (LINE)	-10 dBV	-3 dBV	600 Ω
		Mini jack, unbalanced, CONF.OUT (MIC)	-30 dBV	-23 dBV	600 Ω
	0 dB μ = 0.775 Vrms, 0dBV = 1 Vrms				

For details please contact:



YAMAHA CORPORATION
P. O. Box 1, Hamamatsu, Japan

MPJPEC001E