

# NOVO CONFERENCE SYSTEM

The Novo Conference System is an elegantly designed, affordable conference discussion system with a Dante network interface, ensuring seamless plug-and-play operation. Perfectly suited for small to medium conference rooms, assembly halls, and classrooms.









APPLICATIONS



TRAINING ROOMS



CONFERENCE ROOMS



CLASSROOMS

FEATURES

All in one Plug n Play System

Novo Conference System are designed with an intention to keep technical programming at the minimum level. Everything comes with the box.

Auto Detect

The Central Control Unit automatically detects the number of microphone units connected in the system.

In built Camera Tracking

NCS allows to connect any Video conferencing camera to track the active microphone unit in the system through its RS232 / RS 222 port.

Dante Audio Output

The Central Control Unit offers Dante digital output as well apart from analog XLR. This allows NCS to connect to other Dante enabled systems.

Digital & Wired

Up to 110 numbers of microphones can be daisy chained to the central controller unit through a standard Cat5 Network Cable.

Speech intelligibility

Automatic Gain processing technology to prevent feedback and improve voice clarity.



OVERVIEW



NCS110-CU is the central controller unit of Novo Conference System which powers, manages and controls the whole conference system. The latest microprocessor chip automatically detects the number of units connected, current conference mode, controls cameras connected to it and many other functions which are required in a modern-day conference room. It's built in Audio Gain Processing circuit prevents unnecessary feedback and improves the vocal intelligibility of the room. Every function and parameter in this unit can be easily accessed through the front OLED display which shows the microphone status, operating mode, number of active speakers etc. Housed in a pressed steel body with 1RU size NCS110-CU is designed based on "everything built into hardware" where the complete system is made to run like an appliance without much technical support required.

FEATURES

- 4 kinds of conference mode selection: FIFO, Automatic with limiting time), Request and Sound activated
- The central controller can select the number of speakers, and active 2/3/4 microphones simultaneously
- Support camera tracking, through the serial port RS-232 or RS-422 communication protocol, controls up to 4 cameras, compatible with VISCA, PELCO-D, and PELCO-P 3 kinds of camera control code protocol
- With 4 Video inputs and 1 output port, SDI and HD SDI video inputs and outputs are supported.
- Supports Dante digital output, flexible to connect with various Dante enabled solutions
- With automatic gain audio processing circuit, prevent feedback effectively and improve the clarity of the whole system.
- It is easy to expand and change the configuration. the central controller connects up to 10 microphones units. If we connect the NEB-124W we can connect up to 110 microphone units
- With aux input and output you can plug external audio sources to add multiple functionality like recording, PA/Music inclusion etc.

TECHNICAL SPECIFICATIONS

Number of microphones supported:	110
Maximum Power consumption:	100W/24V
XLR balances carnon maximum output level:	14.6dBu
Maximum output level of the 6.35mm balance socket:	14.6dBu
Microphone unit extension:	Anti-drop 9P aviation plug x 1
Video input port:	Network port (female) xl
Video output port:	BNCx4
Video interface impedance:	BNCx1
Dante interface:	75Ω
Audio output:	RJ45x1
Audio input:	XLRM x 1, 6.35mmjackx 1, RCA Lotus x 1
Pin serial port control interface:	RCA Lotus x 1
Rs-232 control protocol interface:	DB9 Female plug x 1
Rs-422 control protocol interface:	5P Phoenix terminal X 1
Supply voltage:	5P Phoenix terminal X 1
Weight:	90-264V AC or 127-370V AC, 47-63Hz
Dimension (mm):	about 2.3kg
	410(W) X43 (H) x206 (D)



NCS-5C

Chairman Unit

The NCS-5C is a desktop base discussion microphone unit designed as a chairman microphone for Novo Conference System. The microphone unit is engineered in high-quality aluminum alloy die cast housing. The chairman microphone connects to the NCS-110 central control unit via network category 5/6 cable. The unit includes a shotgun Gooseneck microphone with a cardioid unidirectional pickup capsule. The microphone comes with an illuminating ring at the bottom which indicates the active status. The chairman unit prioritizes itself over all other delegate units via override button.



FEATURES

- Wired Integrated Gooseneck microphone with cardioid pickup capsule which provides clear and full sound quality, high sensitivity, and a good long-distance pick-up effect.
- Speaking status indicator: red when mute, green when speaking.
- Convenient loop through cabling via standard cat5 category.
- In-built mute button with status led.
- Aluminum finished metallic die-cast body.

TECHNICAL SPECIFICATIONS

Polar pattern:	Cardioid Condenser
Frequency response:	50Hz-20KHz
Sensitivity:	-20dBV (+/-3dB) (0db=1Vpa, f=1Khz)
Maximum input sound pressure level:	110dB (THD < 5%, f=1KHz)
Signal to noise ratio (A-weighted):	> 100dBA (THD<1%, f=1 KHz)
Distortion:	<0.1%
Power supply:	24V DC (supplied by the controller)
Power consumption:	0.72W
Unit interface:	RJ45 network input
Weight:	about 670g
Dimension (mm):	147 (L) X1 15 (W) x218(H)

NCS-5D

Delegate Unit

The NCS-5D is a desktop base discussion microphone unit designed as a delegate microphone for Novo Conference System. The microphone unit is engineered in high-quality aluminum alloy die cast housing. The delegate microphone connects to the NCS-110 central control unit via network category 5/6 cable. The unit includes a shotgun Gooseneck microphone with a cardioid unidirectional pickup capsule. The microphone comes with an illuminating ring at the bottom which indicates the active status. The delegate unit has a mute button to control its integrated microphone.



FEATURES

- Wired Integrated Gooseneck microphone with cardioid pickup capsule which provides clear and full sound quality, high sensitivity, and a good long-distance pick-up effect.
- Speaking status indicator: red when mute, green when speaking.
- Convenient loop through cabling via standard cat5 category.
- In-built mute button with status led.
- Aluminum finished metallic die-cast body.

TECHNICAL SPECIFICATIONS

Polar pattern:	Cardioid Condenser
Frequency response:	50Hz-20KHz
Sensitivity:	-20dBV (+/-3dB) (0db=1Vpa, f=1Khz)
Maximum input sound pressure level:	110dB (THD < 5%, f=1KHz)
Signal to noise ratio (A-weighted):	> 100dBA (THD<1%, f=1 KHz)
Distortion:	<0.1%
Power supply:	24V DC (supplied by the controller)
Power consumption:	0.72W
Unit interface:	RJ45 network input
Weight:	about 670g
Dimension (mm):	147 (L) X1 15 (W) x218(H)



NCS-5CF

Flushmount Chairman Unit

NCS-5CF is a flush mount type discussion microphone unit designed as a chairman unit for Novo Conference System. The microphone unit is engineered in high-quality copper zinc die cast housing. The microphone connects to the NCS-110CU central control unit via network category 5/6 cable. The unit comes with a screw type detachable microphone port to connect the .gooseneck microphone in it. The chairman unit prioritizes it self over all other delegate units via override button.



FEATURES

- Recessed enclosure design for discreet looks
- High Quality Copper Zinc alloy die-cast body
- Detachable Screw Type XLR port for Gooseneck Microphone
- Backlit Speak & Override button
- Network port CAT5/6

TECHNICAL SPECIFICATIONS

Power supply:	24V DC (supplied by the controller)
Power consumption:	0.72W
Unit interface:	RJ45 network input
Weight:	about 345g (without microphones)
Dimension (mm):	100 (L) Xl 42 (W) x90(H)

NCS-5DF

Flushmount Delegate Unit

NCS-5DF is a flush mount type discussion microphone unit designed as a delegate unit for Novo Conference System. The microphone unit is engineered in high-quality copper zinc alloy die cast housing. The microphone connects to the NCS-110CU central control unit via network category 5/6 cable. The unit comes with a screw type detachable microphone port to connect the gooseneck microphone in it. The delegate unit has a mute button to control its integrated microphone.



FEATURES

- Recessed enclosure design for discreet looks
- High Quality Copper Zinc alloy die-cast body
- Detachable Screw Type XLR port for Gooseneck Microphone
- Backlit Speak button
- Network port CAT5/6

TECHNICAL SPECIFICATIONS

Power supply:	24V DC (supplied by the controller)
Power consumption:	0.72W
Unit interface:	RJ45 network input
Weight:	about 345g (without microphones)
Dimension (mm):	100 (L) Xl 42 (W) x90(H)



NGM512

Shotgun Microphone

NGM512 is a professional shotgun type gooseneck microphone specifically designed for NCS flush mounts units. The gooseneck microphones offers superior off axis rejection and the frequency response is adjusted to create excellent intelligibility over the speech. The Microphones offers a wide frequency range of 50 Hz - 20 kHz, suitable for natural audio reproduction. The Gooseneck Microphone is equipped with screw type holder designed to firmly lock the base of the conference microphone to prevent various failures caused by looseness or poor contact. The LED ring at the bottom of the microphone responds according to the status of the discussion unit



FEATURES

- Screw Type detachable Shotgun Microphone for NCS Flush Mount discussion units
- Superior off axis rejection with super – cardioid pick up pattern
- Wide frequency response for natural audio reproduction
- In built LED ring indicator to indicate On/Off status
- Superior Brass Body with black matte finish

TECHNICAL SPECIFICATIONS

Capsule Type:	Condenser
Polar Pattern:	Super Cardioid
Frequency Response:	50Hz-20KHz
Sensitivity:	-20dB+/-3dB(0dB=1V/Pa,f=1KHz)
SPL:	110dB(THD<5%, f=1KHz)><5%, f=1Khz)
S/N Ratio(A weighted):	>100dBA(THD<5%, f=1KHz)><1%, f=1Khz)
Distortion:	<0.1%
Power Supply:	5V DC
Output Connector:	XLRM
Dimensions:	285(L)
Weight:	180g

NGM516

Gooseneck Microphone

NGM516 is a professional gooseneck microphone specifically designed for NCS flush mounts units. The dual flex design offers full articulation of the microphone and accurate aiming towards the speaker. The Gooseneck Microphone is equipped with screw type holder designed to firmly lock the base of the conference microphone to prevent various failures caused by looseness or poor contact.



FEATURES

- Screw Type detachable gooseneck Microphone for NCS Flush Mount discussion units
- Dual flex design for accurate aiming towards the speaker
- Superior off axis rejection with cardioid pick up pattern
- Smooth & wide frequency response for natural audio reproduction
- Superior Brass Body with black matte finish

TECHNICAL SPECIFICATIONS

Capsule Type:	Cardioid
Polar Pattern:	Condenser
Frequency Response:	100Hz-15KHz
Sensitivity:	-47 dB/1kHz at 1Pa
SPL:	105dB SPL/1kHz at 1% THD
Impedance:	680Ω
S/N Ratio:	>52dB/1kHz at 1Pa
Power Supply:	5V DC
Output Connector:	Female 3-pin XLR
Dimensions:	415mm
Weight:	195g



NEB-124W

Novo Extention Box

The NEB-124W is a repeater used in the Novo Conference System to provide a power connection for the microphone units it enhances the stability of the entire system and increases the number of microphone units used. NEB-124W repeater is made of pressed steel metal housing, which is sturdy, and stylish. It can be fixed on the wall or the bottom of the table etc., which is convenient for installation purposes



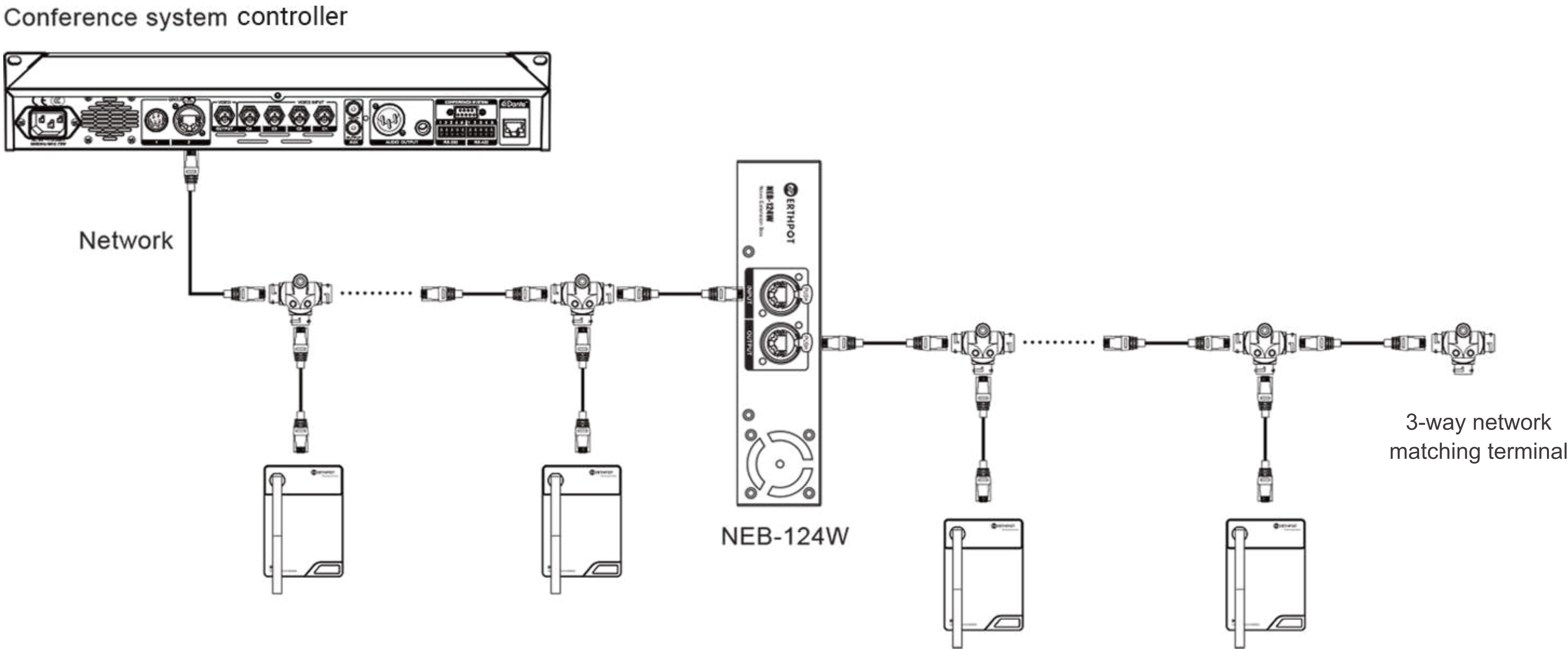
FEATURES

- NEB-124W has a built-in 72W/24V power module, which can provide power for 30 microphone units
- Two network cable connectors are connected by a dedicated network cable, one is the input and the other is the output
- Built-in a fan to ensure that the power supply maintains a good heat dissipation effect when working at high power
- With a working indicator, it lights up in red when it is on standby and blue when it is working

TECHNICAL SPECIFICATIONS

Model	NEB-124W
Power supply (AC)	110-240V, 50/60Hz
Output voltage	24V
Maximum output power	72W
Input/output terminal	RJ45 Network port
Specification (mm)	220 (L) x 140 (W) x 48 (H)
Weight (g)	950 gm

CONNECTION DIAGRAM





 Created in India





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