

SONODYNE®



SyNC

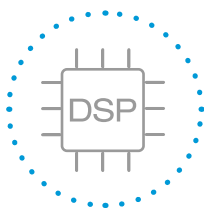
IP enabled Digital Conference System



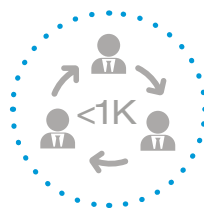
IP BASED CONFERENCE SYSTEM



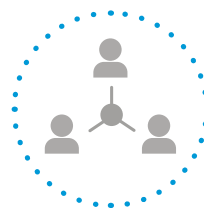
IP BASED
COMMUNICATION



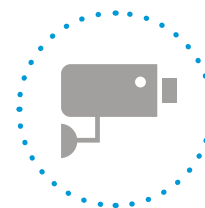
DSP
INSIDE



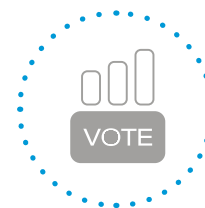
UP TO 1000
CONFERENCE UNITS



3RD PARTY
CONTROL



CAMERA
CONTROL



VOTING
ENABLED

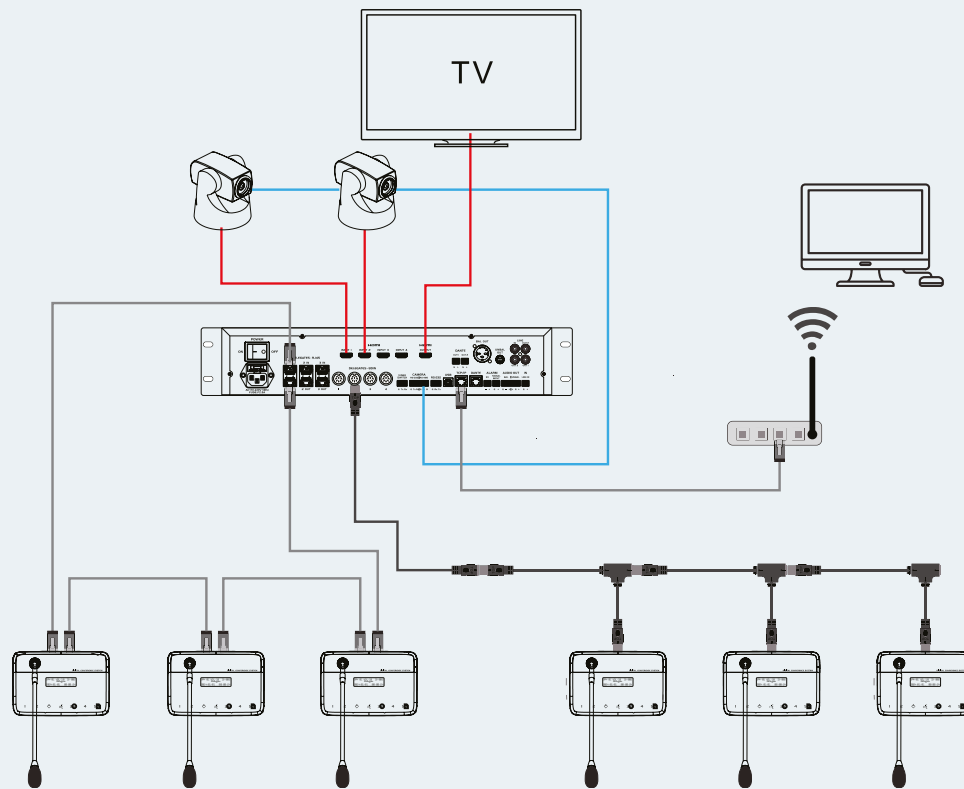
For more than 5 decades, Sonodyne has pursued innovation, quality, and reliability,

We present the **SyNC** IP based conference system with the intent to provide exceptional performance and the latest in digital conferencing technology.

The **SyNC** system has the following elements

- SyNC 1001:** This is the main controller which provide the IP backbone for communication, DSP for setup, IO and control, and also power to the conference units
- SyNC 2001:** This is the long gooseneck microphone, with length 500mm
- SyNC 2002:** This is the shorter gooseneck microphone, with length 420mm
- SyNC 3001:** Chairman base unit with full function on a touch control OLED screen and 8 pin connector
- SyNC 3002:** Delegate base unit with full function on a touch control OLED screen and 8 pin connector
- SyNC 4001:** This power extender unit can be utilised to connect up to 180 conference units. By using a separate Data Extender unit with SyNC 1001 up to 1000 conference unit can be connected.

The **SyNC** conference solution is versatile and well-suited for a diverse range of users, spanning from small-sized organizations to multinational corporations and from local to national governments and international summits.



SyNC 1001: CONTROLLER

- IP based
- Supports up to 120 microphones on 8 core connectivity or 60 microphones on Cat 6 connectivity
- Both 8 Core and Cat 6 connectivity for the controller
- Auto camera tracking via RS 232 / 485
- HDMI connectivity for cameras
- 32 band parametric EQ
- Multiple presets via DSP
- Recording via external USB drive

SyNC 2001/2002/3001/3002: MICS WITH DIGITAL BASE

- Dedicated Chairman and Delegate units
- Fully digital mic base with LED
- 2 sizes of gooseneck microphones
- Voting through digital base
- Headphone on each base with volume control
- Colour indicators on mic

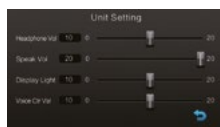
SyNC 4001: POWER EXTENDER

- IP connectivity
- Each power extender unit can connect up to 45 mics on 8 core connectivity
- With the help of 4 power extenders, up to 180 microphones can be connected

SOFTWARE OVERVIEW



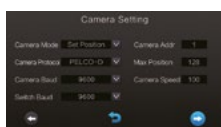
Landing page



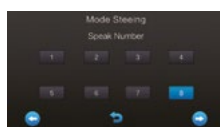
Misc setup 2



IP connectivity



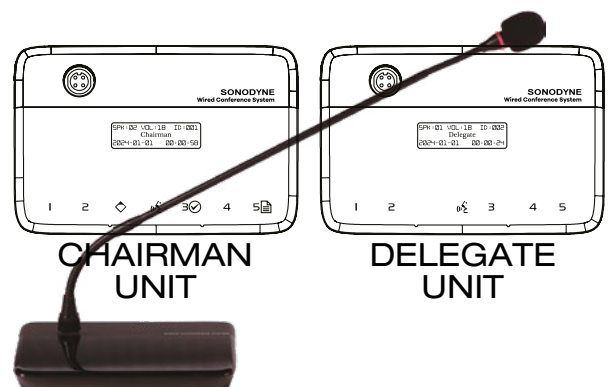
Camera setting



Misc setup 1



EQ setting



SyNC 1001: MAIN CONTROLLER UNIT



This is the main controller of the IP based Conference System. It allows for seamless conferencing of up to 180 conference microphones in conjunction with the **SyNC 4001** power extender. It supplies power to all conference units and is also the connection and control bridge between the system hardware and the system application software. The system controller can set the IP address, has a TCP/IP network interface, can connect to a wireless router, and use computers in the same local area network to set the operation of the host. It features a built-in high-performance CPU processor with fast processing speed and high quality audio. It has a host of DSP enabled functions for setup and can control upto 8 cameras. With USB based recording and host of IOs, the rack mountable SyNC 1001 forms the core of modern day digital conferencing.

FRONT PANEL

- Touch-type HD screen
- USB-A type receptacle for audio recording



REAR PANEL

- Power switch
- IEC AC mains receptacle
- 3 x dual RJ-45 connectors (loop in, loop out) for connecting to conference units through CAT-6 cable
- 4 x 8 pin connectors for connecting to conference units through dedicated 8 pin cable and T-type connectors
- Video switch port via RS-232 3 pin Phoenix connector
- Camera control ports RS-232 and RS-485 via 2 x 3 pin Phoenix connector
- System control port via RS-232 interface
- External control port via USB-B type connector for connection to devices running dedicated app
- TCP-IP connector for connecting to internet
- Alarm 5V trigger input via 2 pin Phoenix connector
- Alarm signal input via 2 pin Phoenix connector
- Balanced line level audio out via 3 pin Phoenix connector
- Balanced line level audio out via XLR connector
- Unbalanced line level audio out via 3 pin Phoenix connector
- Unbalanced line level audio out via 6.35 mm phonejack
- Unbalanced line level audio out via 3 x RCA jack
- Unbalanced line level audio in via 1 x RCA jack
- Unbalanced line level audio in via 2 pin Phoenix connector
- 4 x HDMI inputs for connecting to HDMI output of 4 cameras
- 1 x HDMI output for connecting to video monitor

HIGHLIGHTS

- Supports discussion, video tracking, sign-in and voting functions.
- 5" full-view IPS capacitive touch screen, intuitive display and easy adjustment of system parameters
- Connections can be done by 8-core T- cable or CAT6 network
- The main unit supports upto 120 microphones on 8 core T cable and 60 microphones on CAT-6 cable. It supports bilateral power supply of microphone units, and supports hot-plugging of microphone units. High-performance switching power supply is used, hence long-distance transmission will not have any impact on sound quality
- The main unit can be connected to power extender units to increase the no. of conference units. The power extender unit **SyNC 4001** can drive up to 45 conference units through 8-core T-cable. 4 such power extender units can be connected, allowing up to 180 conference units to be connected to a single controller
- The unit adopts "hand in hand" connection mode, which supports hot plugging. This is convenient for installation and maintenance
- Settings for various discussions modes can be done based on 5 available modes - FIFO (first in, first out mode), APPLY (application mode), FREE (free mode), LIMIT (restricted mode), VOICE (voice control mode)
- It features a speaker limit function and a speaking time limit function. The speaker limit function can limit the maximum number of units that can speak at the same time (can be set to 1-8 different numbers), with the exception of the chairman unit. The speaking time limit function can limit the speaking time of the speaking unit (can be set to 0-1000 seconds), with regular shutdown and automatic shutdown, with the exception of the chairman unit
- The global headphone and microphone volume of all conference units can be adjusted from main controller unit
- Automatic camera tracking can be done via "SONY VISCA, PELCO P, PELCO D" communication protocols through built-in RS232/ RS-485 ports via 3-PIN Phoenix connector
- Upto 8 cameras can be connected. Automatic switching of camera is supported for 4 cameras by connecting video output of cameras to 4 HDMI inputs. The switched HDMI output can be connected to monitor. If no. of cameras exceeds 4, external video switcher needs to be used, with control through special protocol available from RS232 PORT
- Effective voting can be realized via display screen on microphone unit with no need of external computer or visual aid ("yes/abstain/no")
- Service function is built-in. The speaking unit can apply for tea, paper, pen, service personnel and other services
- The anti-interference circuit design prevents all mobile phone signal interference
- There is a DSP-based 32-band on-board parametric equaliser for room calibration and also automatic feedback suppression
- Recording can be done in high quality wav format by using an external USB drive which can be plugged into USB-A receptacle on the front panel
- Outputs are 1 balanced 3P Phoenix connector, 1 balanced XLR connector, 1 unbalanced 3P Phoenix connector, 1 unbalanced 6.35mm phone jack and 3 unbalanced RCA jacks, for connecting to sound reinforcement or recording equipment.
- Inputs are 1 unbalanced 2P Phoenix connector and 1 unbalanced RCA connectors for connecting line level output of source equipment.
- There is an alarm signal input interface (alarm voltage interface +1 2P Phoenix interface alarm audio input port). When the public address alarm system starts, it can automatically pause the conference and send alarm information to the participating units.
- The controller can be also controlled via a provided app running on Microsoft Windows OS computer through a USB-B type connector or via IP address
- An RS-232 port is provided for full control of the controller through serial communication protocol. There are 22 control codes for full control of all functions.
- The unit complies with IEC60914, GBT15381-94 international standards
- It can be installed in a standard 2 RU 19" rack space

SPECIFICATIONS

POWER SUPPLY	AC110V-220V/50Hz	VIDEO INTERFACE (OPTIONAL)	HDMI 4 x 1 (optional)
FREQUENCY	20Hz ~ 20kHz	CAMERA CONTROL INTERFACE	6P connector
S/N RATIO	>96dBA	COMPUTER INTERFACE	USB x1 RJ45 x 1
T.H.D.	<0.05%	AUDIO INPUT	2P connector (unbal) x 1, RCA (unbal) x 1 2P connector (unbal) x 1 (alarm device)
RECORDING	USB	AUDIO OUTPUT	3P connector (bal) x1 3P connector (unbal) x1 XLR (bal) x 1 6.35mm (unbal) x 1 RCA (unbal) x 3
INPUT CONNECTOR	DIN-8 x4 , RJ45 x3 (group)		
CENTRAL CONTROLLER INTERFACE	RS-232 (3P connector) x 1		
CAMERA SWITCH INTERFACE	RS-232 (3P connector) x 1		

Due to continuous improvements, all specifications are subject to change



MICROPHONES WITH DIGITAL BASE

The **SyNC** Conference Units are elegant, and stylish. With touchpad illuminated controls on a OLED screen it allows for a host of onboard controls. It connects with the **SyNC 1001** on a T type 8 core cable, and up to 180 such microphones can be connected in conjunction with the **SyNC 4001** Power Extender Unit.

MODELS

- SyNC 2001:** Goosenesk microphone, 500mm
- SyNC 2002:** Goosenesk microphone, 420mm

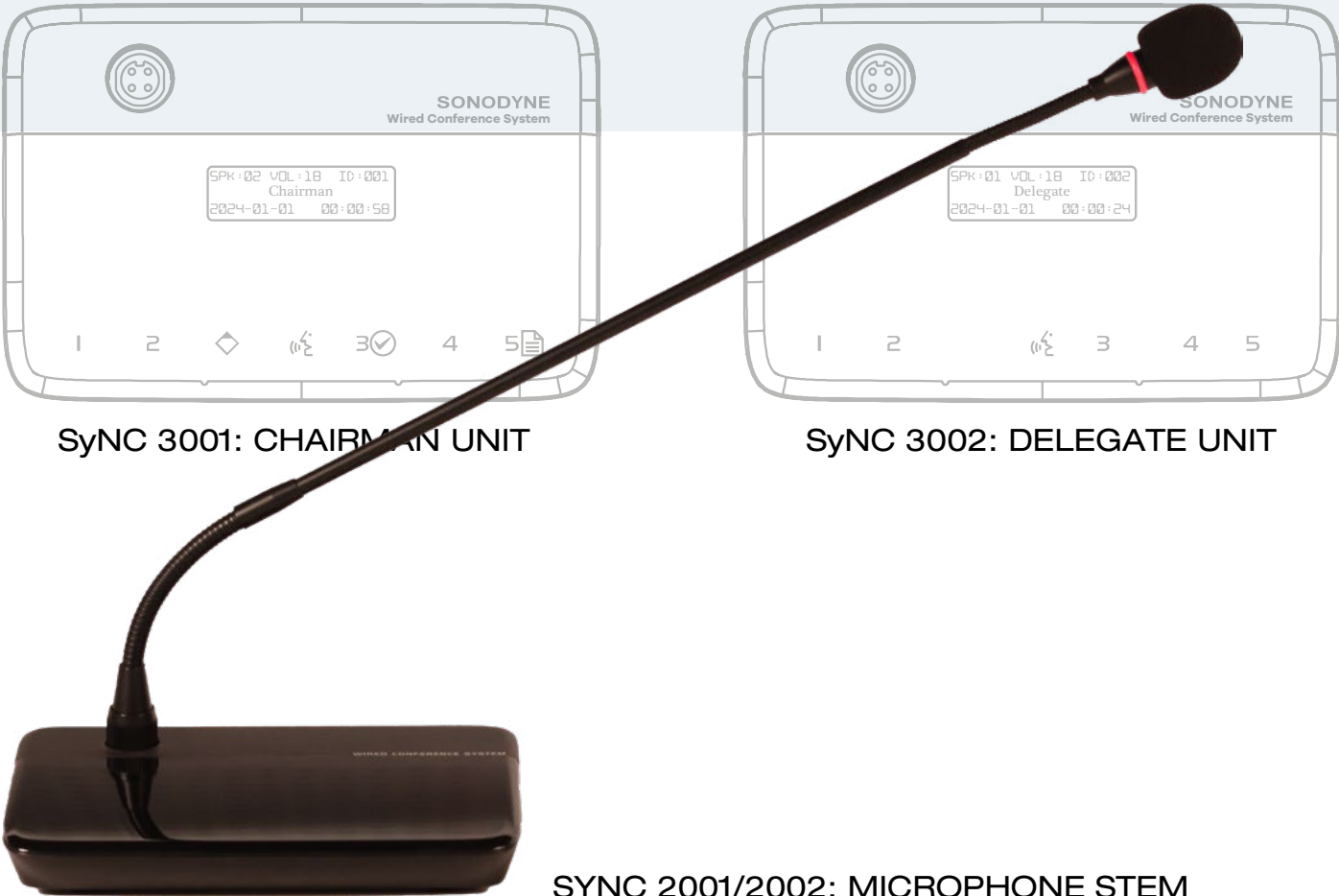
- SyNC 3001:** Chairman, base only
- SyNC 3002:** Delegate, base only



SyNC 3001: CHAIRMAN UNIT



SyNC 3002: DELEGATE UNIT



SYNC 2001/2002: MICROPHONE STEM

HIGHLIGHTS

- Complies with IEC60914 and GBT15381-94 international standards
- The unit is powered by **SyNC 1001**
- The gooseneck is screw-on type – can be removed and fixed easily
- Gooseneck is available in 2 different length – 420mm and 500mm
- Mic capsule is cardioid with sensitivity of -46dBV/Pa
- Frequency response is 20Hz to 20kHz and input impedance is 2kOhm with SPL of 125dB
- Comes with T-type 8-core connection. The cable is shielded by full-line aluminium foil, which greatly reduces interference of strong electromagnetic waves on the wire
- Professional high-fidelity capacitor microphone. Sensitive pickup and clear voice. Bandwidth 20Hz ~ 20kHz
- Employs interference suppression to prevent interference from electronic products such as mobile phones
- The gooseneck has a two-colour speak mode light ring. The light ring glows red when the user speaks, and green when the user requests to speak
- Touch type illuminated switches. The microphone on/off switch is bright green in standby mode and bright red when on
- 2.23" bright full-view OLED display for displaying the voting, voting mode, unit parameters, date and time, speaking volume, monitoring volume, etc
- Headphone output port and volume adjustment button are provided on the side, for monitoring
- Employs "Hand in hand" connection mode, supporting hot plugging, which makes installation and maintenance easy
- Service buttons for requesting tea, pen, paper, etc
- The chairman unit has the function of approving the speech request of the delegate
- The chairman unit is not limited by the number of speakers
- The chairman unit has an additional priority function button for controlling the order of the conference
- The chairman unit can be connected anywhere in the loop
- The chairman unit can initiate sign-in, voting, election and other functions
- Multiple chairman units can be connected

SPECIFICATIONS

CABLE	DIN-8P
CAPSULE	Cardioid
SENSITIVITY	-46 dBV/Pa
FREQUENCY	20Hz~20kHz
INPUT IMPEDANCE	2kΩ
DIRECTIONAL 0°/180°	>20dB (1kHz)
EQUIVALENT NOISE	20dBA (SPL)
SPL	125dB (THD<3%)

S/N RATIO	>80dB
T.H.D	<0.05%
DISPLAY	128 x 32 OLED
EARPHONE LOAD	>10Ω
EARPHONE VOLUME	10mW
EARPHONE INTERFACE	3.5mm × 1
INSTALLATION	Counter top
DIMENSIONS (HxWxD)	44mm x 185mm x 121mm
COLOUR	Black
WEIGHT	Base: 0.53kg, MIC: 0.07kg

Due to continuous improvements, all specifications are subject to change

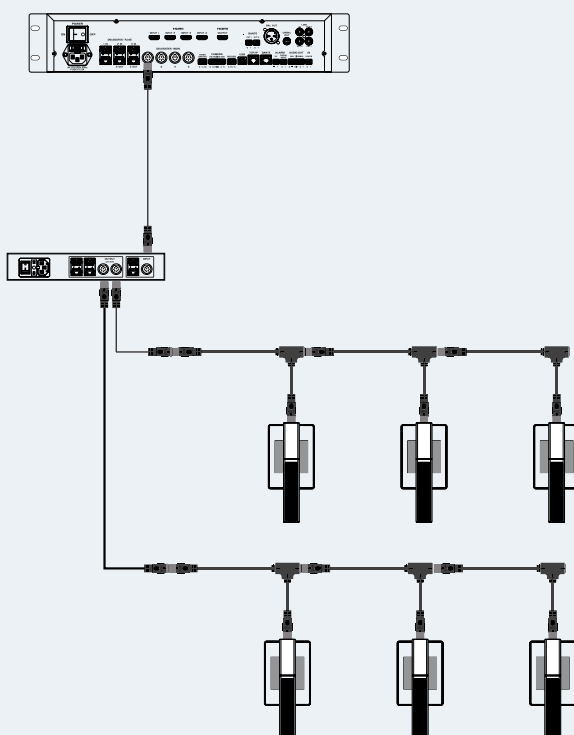
SyNC 4001: POWER EXTENDER UNIT



This is the power extender unit for the **SyNC** digital conferencing system. 4 units can be used to connect up to 180 conference units. This product is used to extend the power supply of the conference unit, and it acts as a relay when the power supply of the controller is insufficient. It has one 8 pin interface input and 2 8-pin interface outputs, one dual RJ-45 interface input and 2 dual RJ-45 interface outputs. The inputs are meant for connection to the controller, while the outputs are meant for connection to conference units

SPECIFICATIONS

POWER EXTENDER	Tabletop/ standard 19" rack mount
INSTALLATION	Wall mounted
DIMENSIONS (HxWxD)	43mm x 250mm x 180mm
COLOUR	Black
WEIGHT	4.5kg
POWER SUPPLY	AC110V-220V/50Hz
INPUT CONNECTOR	DIN-8 x1 , RJ45 x1 (group)
OUTPUT CONNECTOR	DIN-8 x2 , RJ45 x2 (group)



Due to continuous improvements, all specifications are subject to change



RESIDENTIAL

INSTALL

LIVE

STUDIO

CINEMA



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