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LC372SR
Sound Reinforcement Module

LC372SR with LC372PMK Pole Mount Kit

Description

The LC372SR is a classroom sound reinforcement module designed for use in the IED LANcom SCS. The LC372SR utilizes wireless infrared microphones with an integrated receiver-audio mixer/amplifier to provide audio amplification in small to medium-sized applications like classrooms, libraries, lecture halls, small gymnasiums and auditoriums. The LC372SR has a line-level output to feed external devices such as hearing assistant systems, audio recorders or larger power amplifiers if it is used in a larger room such as a gymnasium. The Sound Reinforcement Module comes complete with 30 watt amplifier/receiver, infrared microphone, infrared sensor and charging station. It is controlled using a web-based interface for simplified configuration and use. It features no external knobs or switches to eliminate tampering or inadvertent system changes. All adjustments are made through IED's LANcom SCS Software (LC3000SW) that allows teachers and end users to easily manage program source selection, individual component volume, muting and other functions after the installing contractor sets levels for emergency messages, bells and paging audio.

Classroom sound reinforcement benefits teachers, guest lecturers, students and the education system as a whole. With even sound distribution, lessons are heard no matter where students are seated. Attention and concentration are raised, especially in the back of the room, through this added involvement. Teachers no longer strain their voice when using a wireless microphone and they can easily integrate with multimedia teaching tools such as computers and DVD players by controlling audio from a single source. With intercom, priority paging and emergency notification to inform another location of the need for outside assistance, IED LANcom SCS fulfills the needs of any education or large multifaceted facility.

The LANcom SCS is a full system solution to meet the needs of all school districts. The flexible and wide array of products is designed to provide all the audio support needed no matter the application.

The integrated receiver of the LC372SR is a 30W amplifier with a 25V speaker line. It features two (2) RJ45 connectors for use with LC11CS or LC12DCS wall plate call switches and LC372M remote intercom microphone. These standard call switches provide four logic input functions as normal call, emergency call, lockdown acknowledge, and contractor defined (i.e. CCTV or relay control).

Four (4) relays are included; Relays 1 and 2 are for analog clock and time display synchronization and two (2) are for contractor defined relay for ancillary system integration via Phoenix/Euro block connector.

The Sound Reinforcement Module also features four (4) auxiliary inputs; one (1) balanced input with mono summing on the back of the receiver through Phoenix/Euro block connector and three (3) via RJ45 connector on the LC372AI audio input plate- one (1) balanced XLR mic/line switchable, one (1) unbalanced stereo 3.5mm input with mono summing, and one (1) unbalanced stereo RCA input with mono summing. A separate RJ45 is included for connection to an intercom handset. A balanced, line level output is provided for connection to external audio amplifiers, hearing assistance systems or recording devices.

Three infrared receivers can be connected to the amplifier to guarantee reliable connection and full coverage from the wireless IR microphone.

The LC372SR is powered via Ethernet cable from a LANcom power injector located near the device or in a remote telecommunications closet along with other data switch and distribution equipment.

An internal fan and cabinet vents help keep the internal circuitry cool during operation.

Contractor setup software tools are provided for device configuration and DSP adjustment. The LC372SR is controlled using standard web browsers on staff or administration computers. Controls include program input selection and volume for all local inputs and the selected program source.

Related Products

LC11CS	Call Switch
LC12DCS	Dual Call Switch
LC372M	Remote Microphone Unit
LC372AI	Audio Input Plate
LC21HS	Intercom Handset
LC372RMK	Rack Mount Kit for SRM
LC372WMK	Wall Mount Kit for SRM
LC372PMK	Pole Mount Kit for SRM
LC3000SW	LANcom SCS Software

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Features

- Local Sound Reinforcement Module for use in IED LANcom SCS
- Integrates paging, intercom, emergency message and multimedia systems
- Includes 30W, 25V amplifier/receiver, AtlasLearn infrared microphone, IR sensor and charging station
- Stereo aux input on rear-mounted Euroblock connector
- LC372AI provides three audio inputs on one plate; balanced XLR for mic/line in, 3.5mm stereo jack and dual RCA connectors for other line inputs
- Line output provided to feed audio to additional power amplifier(s), hearing assistance system or audio recorder
- Logic input for local mute function
- Four Form C relays for clock synchronization and other functions
- Handset for private intercom calls
- Up to four call switch functions
- May be used with LC372M remote microphone
- Connects to IED LANcom SCS by Ethernet using CAT6/RJ45 Cable
- User interface is web-based software for ease of use and installation with no external knobs or switches
- CobraNet digital audio for program channels and intercom
- Program Channel DSP includes 9-band parametric EQ, HP and LP filters, and compressor

Wireless Microphone

The LC372SR classroom sound reinforcement module is designed to work with the AtlasLearn AL-PH infrared microphone. The versatile and ergonomic AL-PH pendant/handheld microphone transmitter allows both teachers and students freedom of movement without bulky electronics or cumbersome wires. The dual mode transmitter allows teachers to control microphone volume, overall system volume and mute settings via side mounted soft touch controls. In addition, when PANIC and MODE controls are pressed simultaneously a contact closure is triggered that integrates with the rest of the IED LANcom SCS to signal an emergency condition in the classroom.

The AL-PH wireless microphone may be used in any of three configurations.

Handheld	Separate LED clusters located on top and bottom of unit guarantee optimum line of sight operation when the unit is handheld.
Lanyard	Secure connection features a safety breakaway function for easy release in an emergency and includes an innovative ID badge clip system.
Body Pack	Allows hands free use with optional headset mic.

Charging Station

The SRM also comes with a charging station for charging up to two (2) pendant transmitters and four additional AA rechargeable batteries simultaneously. Unit may be wall mounted via integral key hole slots or shelf mounted for easy accessibility.

Mounting Options

The LC372SR has the ability to be surface, rack, wall, or pole mounted. Four (4) rubber feet are included for desktop mounting while other mounting options are accomplished with the use of one of the available kits:

LC372RMK	Rack Mount Kit for SRM for equipment rack mounting in 1RU, 15" minimum depth cabinets
LC372WMK	Wall Mount Kit for SRM for bracket mounting to walls, cabinets, or other vertical areas.
LC372PMK	Pole Mount Kit for SRM for mounting on standard projector poles up to 2" in diameter

LC372SR Local Room Audio Controls

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Specifications

Dimensions ..... 8.50" W x 1.75" H x 13.625" D
(215.9mm W x 44.5mm H x 346.1mm D)
Mounting methods..... Desk/Table Top Surface Mount (Standard), Optional Pole Mount Kit, Rack Mount Kit or Wall Mount Kit

Connectors

Ethernet/Power RJ-45
Call Switch/Remote Microphone RJ-45 (x2)
Auxiliary Input Plate RJ-45
Intercom Handset RJ-45
Aux Audio Input (Back panel) ..... 6-pin Euroblock
Speaker/Line Out, Mute In, & 48VDC Out ..... 8-pin Euroblock
Relay Outputs ..... 12-pin Euroblock
IR Sensors..... F-Connector Female (x3)

Electrical

Power ..... 48VDC, 1.35A Max
Provided via Ethernet Data Cable
Input Sensitivity (Input 1) 0dBu
Input Sensitivity (Inputs 2-4) .....-3dBu (Left or Right Alone)
0dBu (Left and Right Summed)

Speaker Output

Maximum Output Power .....30 watts @ 25V
Frequency Response..... 22Hz – 22kHz
S/N 97dB

Line Output

Maximum Output ..... +14dBu
Frequency Response..... 22Hz – 22kHz
S/N 110dB

Handset Output

Maximum Output ..... +6dBu
Frequency Response..... 22Hz – 22kHz
S/N 102dB

Relay Outputs

Contacts.....Form C
Nominal Switching Capacity (resistive load).....2A @ 30VDC
0.5A @ 125VAC

Transmitter Specifications

IR Led's ..... 6 Total in 2 Groups
Aux Input.....3.5mm, 2kΩ
External Controls ..... Power, Mode, Volume, Panic Mute
Internal Controls.....Channel A/B, Student Lock Out
Mode Indicator LED's ..... Blue (x2)
Lockout Indicator LED ..... Red
PWR/BATT Indicator LED ..... Green/Red
Dimensions ..... 1.8" W x 5.187" H x 1.31" D
(45.7mm W x 131.7mm H x 33.4mm D)
Weight (with Batteries) 4.23oz (120g)
Weight (Less Batteries) 2.1oz (60g)

Charging Station Dock

AL-PH Ports.....2
Charge Indicator LED's.....4 (Red – Charging, Green – Charged)
PSU Type .....120V Input, 9VDC @ 1A Output
Dimensions ..... 7.44" W x 4.17" H x 2.75" D
(189mm W x 106mm H x 70mm D)

IR Receiver Dome

Receiver LED's.....6
Mounting.....Screw Type
Cable..... UL Listed RG59
Termination.....F-type
Maximum Cable Length..... 32.8' (10m)

Architect & Engineering Specifications

The IED LANcom SCS sound reinforcement module shall be LC-372SR or approved equal.

The system shall be a self contained sound reinforcement apparatus (speakers and wiring not included) for use in K-12 and higher education facilities or where a room constrained public address system shall be required.

An integrated receiver shall consist of a 30W amplifier with a 25V speaker line. It shall have two (2) RJ-45 connectors for use with LC11CS or LC12DCS wall plate call switches to provide four logic input functions as normal call, emergency call, lockdown acknowledge, and contractor defined (i.e. CCTV or relay control). Two (2) relays shall be included; one (1) for analog clock and time display synchronization and one (1) contractor defined relay for ancillary system integration via Phoenix/Euro block connector.

The Sound Reinforcement Module shall also features four (4) auxiliary inputs; one (1) balanced input with mono summing on the back of receiver through Phoenix/Euro block connector and three (3) via RJ45 connector on the LC372AI audio input plate- one (1) balanced XLR mic/line switchable, one (1) unbalanced stereo 3.5mm input with mono summing, and one (1) unbalanced stereo RCA input with mono summing. A separate RJ45 shall be included for connection to an intercom handset.

The dual mode Microphone/System Control Unit shall have safety breakaway lanyard and ID mounting clip. The Microphone/Control Module will have provision for an external microphone to be used with the system. The Microphone/Control Unit shall be capable of transmitting on one of two dedicated IR channels to allow two Microphone/Control Units to be deployed in the same user space without interference. Channel selection shall be via internally mounted A/B switch concealed in the battery compartment along with a separate lockout control switch to disable the external control functions on the Microphone/System Control unit. Lockout Mode is indicated by a single red illuminated LED. The ALS microphone control interface is to be equipped with user selectable functions to include Unit On/Off switch, Microphone Level Up/Down, and Mute Microphone control. The Control Unit Interface functions shall consist of a separate mode selection switch with a provision to allow for multiple functions to be accomplished from a single control. A single push on shall engage a single blue LED indicating the default operation mode where the volume control sets the teacher's microphone level. A double push of the Mode button shall illuminate two blue LED indicators engaging the secondary control mode where by all other inputs (other than the teacher's microphone) can be adjusted as a group to control overall system volume. In the event of a situation requiring outside assistance, a simultaneous engagement of the Mode and Panic buttons will send a signal to engage a relay that alerts a predetermined location to a need for attention.

Also, the LC372SR shall include a combination docking and automatic charging station that can be orientated vertically or horizontally and accommodate two infrared Microphone/System Control Units. The docking and recharging station will automatically recharge and maintain batteries in the microphone/system control units and accommodate up to 4 additional AA rechargeable batteries as spares. The docking and recharging appliance shall be powered by an external UL listed power supply appropriate for the country of use.

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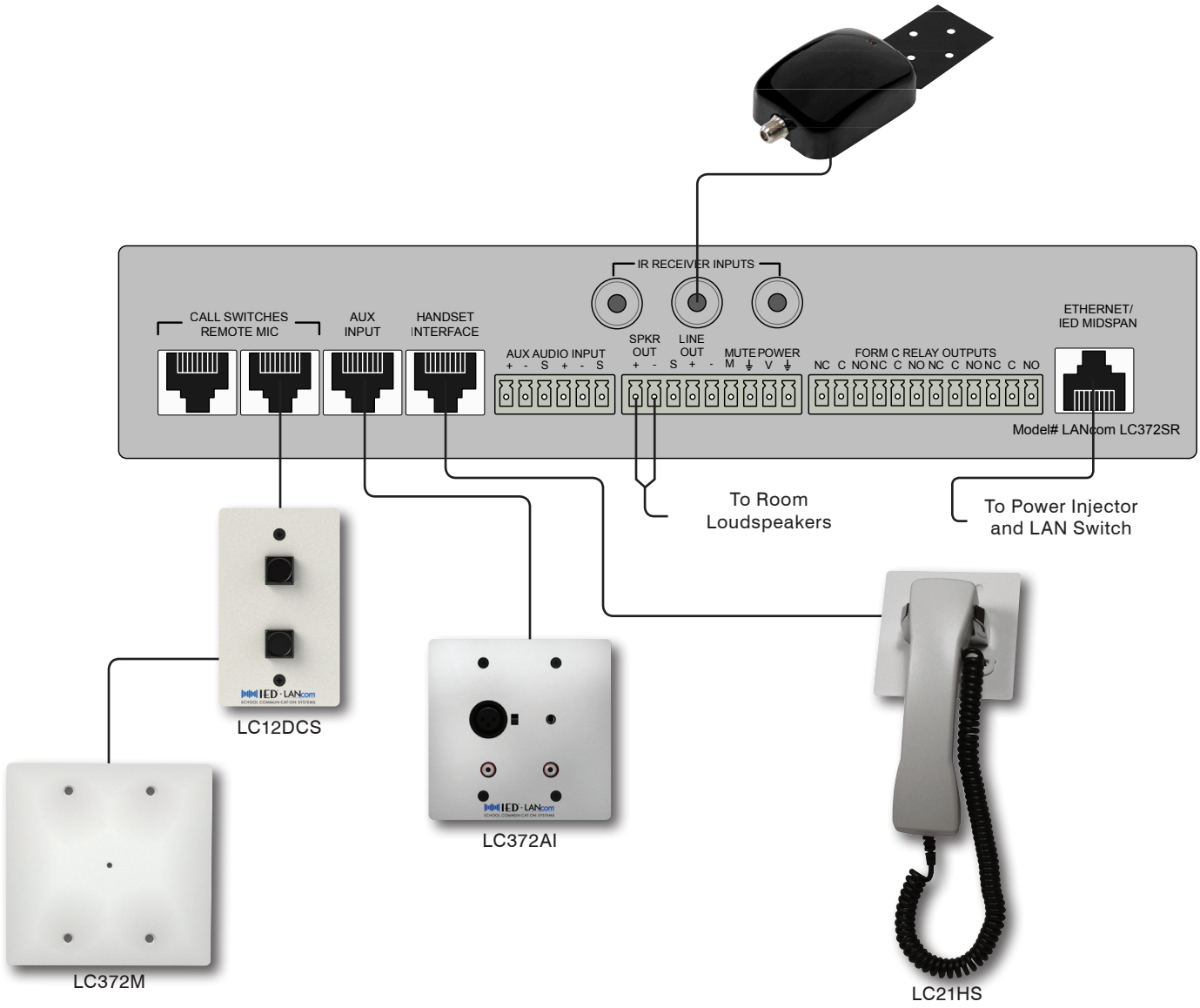

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