



Located in Van Nuys, California since 1979, Louroe Electronics™ is the World Leader in Audio Monitoring Technology. Louroe products are used in over forty countries and are utilized in both the private sector and government applications. Louroe serves the needs of law enforcement, security, health care, entertainment, hospitality and retail industries and many more. At Louroe Electronics we maintain rigorous standards to ensure our products provide reliability, durability and excellent performance for our customers' needs.

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**SPEAKER MICROPHONE – WALL MOUNT****DIVISION 27 – COMMUNICATIONS****27 50 00 Distributed Communications and Monitoring Systems****27 51 00 Distributed Audio-Video Communications Systems**

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**Notes to Specifier:**

1. Specifiers may alternately wish to include this specification in the following section:

**28 47 17 Notification Devices and Methods**

2. Where several alternative parameters or specifications exist, or where, the specifier has the option of inserting text, such choices are presented in **<bold text>**.

3. Explanatory notes and comments are presented in **colored** text.

**BI-DIRECTIONAL SPEAKER MICROPHONE – WALL MOUNT****PART 1 GENERAL****1.01 SUMMARY**

- A. Section includes a wall-mounted full duplex audio microphone and speaker combination, where the microphone produces a line level output and speaker produces a 1 or 2 Watt output.
- B. Related Requirements
  - 1. 10 00 00 Specialties (Division 10)
    - a. 10 17 00 Telephone Specialties
  - 2. 27 00 00 Communications (Division 27)
    - a. 27 15 00 Communications Horizontal Cabling
    - b. 27 30 00 Voice Communications
      - 1) 27 32 00 Telephone Sets
  - 3. 28 00 00 Electronic Safety and Security (Division 28)
    - a. 28 13 19 Access Control Systems Infrastructure
    - b. 28 23 00 Video Surveillance

**1.02 SUBMITTALS**

- A. Informational Submittals
  - 1. Product Data - Manufacturer's printed or electronic data sheets
  - 2. Manufacturer's instructions
- B. Closeout Submittals
  - 1. Warranty documentation
  - 2. Manufacturer's installation, configuration, and operation manuals
  - 3. As-built wiring diagrams
  - 4. Recommended spare parts list

**1.03 QUALIFICATIONS**

- A. Manufacturer shall have a minimum of five years' experience in providing commercial speaker microphone systems.
- B. Manufacturer's products shall be manufactured in the United States of America.
- C. Installers shall meet Manufacturer's requirements for equipment installation.

**1.04 WARRANTY**

- A. Manufacturer shall provide a limited 24 month warranty for the product to be free of defects in material and workmanship.

**END OF SECTION**

**PART 2 PRODUCTS****2.01 EQUIPMENT**

- A. Manufacturer: Louroe Electronics  
6955 Valjean Ave.  
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Phone: (818) 994-6498  
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- B. Model: VeriFact 530 (LE-530), VeriFact 535 (LE-535), VeriFact 540 LE-540),  
VeriFact 545 (LE-545)
- C. Alternates: None

**2.02 DESCRIPTION**

- A. The bi-directional speaker microphone shall be a full duplex audio microphone and speaker combination, designed for interface to third party audio and video equipment.
1. The speaker microphone shall have built-in muting and half-duplex functionality.
- B. The microphone shall produce a line level output and connect to the audio input of the receiving device.
- C. The speaker shall produce a <1> <2> Watt output from a line level input transmitted by an audio driver device.  
**Models VeriFact 530, VeriFact 540 are 1 Watt units.**  
**Models VeriFact 535, VeriFact 545 are 2 Watt units.**
- D. The speaker microphone shall incorporate echo cancellation, attenuation, and noise filtering.
- E. The speaker microphone shall be mounted on a <interior wall> <exterior wall> in a <flush> <surface> mount configuration.

| <u>Model</u>            | <u>Speaker Dia.</u> | <u>Mounting Surface</u>                      |
|-------------------------|---------------------|--|
| <b>VeriFact 530/540</b> | <b>2"</b>           | <b>3-gang box</b>                            |
| <b>VeriFact 535/545</b> | <b>4"</b>           | <b>Recessed (flush) or Surface Mount Box</b> |

- F. <The speaker microphone shall have an illuminated pushbutton which, upon activation shall present a contact closure to a third party audio receiving device.>

**The Louroe VeriFact 530 and VeriFact 535 provide a pushbutton.**

- G. The speaker microphone shall provide a vandal-resistant cover plate.
- H. Specifications

1. Microphone

- a. Type: Electret condenser
- b. Output: line level (0 dB)
- c. Sensitivity: -45 dB
- d. Frequency response: 40 Hz to 15 kHz +/- 1 dB
- e. Output Impedance: 600  $\Omega$  unbalanced
- f. Gain: adjustable

- g. Connector: Terminal block
2. Speaker
- a. Power output: **<1 Watt> <2 Watts>**  
**Models VeriFact 530, VeriFact 540 are 1 Watt units.**  
**Models VeriFact 535, VeriFact 545 are 2 Watt units.**  
 1) Volume shall be adjustable via a potentiometer inside the unit.
- b. Impedance: **<4 Ω> <8 Ω>**  
**Models VeriFact 530, VeriFact 540 have 4 Ω impedance.**  
**Models VeriFact 535, VeriFact 545 have 8 Ω impedance.**
- c. Connector: Terminal block
- d. Magnet: **<Neodymium> <3 oz. ceramic>**  
**Models VeriFact 530, VeriFact 540 have neodymium magnets.**  
**Models VeriFact 535, VeriFact 545 have 3 oz. ceramic magnets.**
- e. Size: **<2"> <4">** diameter round  
**See table in commentary following Section E above.**
3. Electrical
- a. Voltage: 12 VDC, **<200> <500>** mA  
**Models VeriFact 530, VeriFact 540 draw 200 mA.**  
**Models VeriFact535, VeriFact545 draw 500 mA.**
4. Mechanical Dimensions(H x W x D)
- a. Recessed (3-gang): 6.5" x 4.8" x 1.9" (165 mm x 122 mm x 48 mm)  
**Applies to VeriFact 530 and VeriFact 540.**
- b. Recessed: 5" x 6.875" x 2.625" (127 mm x 175 mm x 67 mm)
- c. Surface mount (with flange): 6.25" x 8" x 2.625" (158 mm x 203 mm x 70 mm)  
**(b) and (c) apply to VeriFact 535 and VeriFact 545.**

### 2.03 ACCESSORIES

- A. The Manufacturer of the speaker microphone shall offer the following optional accessory a Power over Ethernet (PoE) Interface/Power Extractor to provide the following functions:
1. Power the speaker phone by extracting 12 VDC power from a (nominal) 48 VDC IEEE 802.3af PoE connection or from a directly connected dedicated 12 VDC power source
  2. Adjust the audio output gain of the speaker microphone's microphone for connection to the audio input of a third party audio or video device
  3. Receive an external line level audio input and provide amplified output to the speaker on speaker microphone.

**The Louroe model number for the Power over Ethernet (PoE) Interface/Power Extractor is IF-PX.**

**END OF SECTION**

**PART 3 EXECUTION**

**3.01 INSTALLERS**

A. Contractor personnel shall comply with all applicable state and local licensing requirements.

**3.02 INSTALLATION**

A. Contractor shall follow Manufacturer's written installation instructions in their entirety.

B. The product shall be installed with a listed Limited Power Source (LPS) or Class 2 power supply.

**When the speaker microphone is part of an audio monitoring system, it is recommended that Contractor post notice of audio monitoring on the premises in accordance with Federal and State regulations.**

**END OF SECTION**