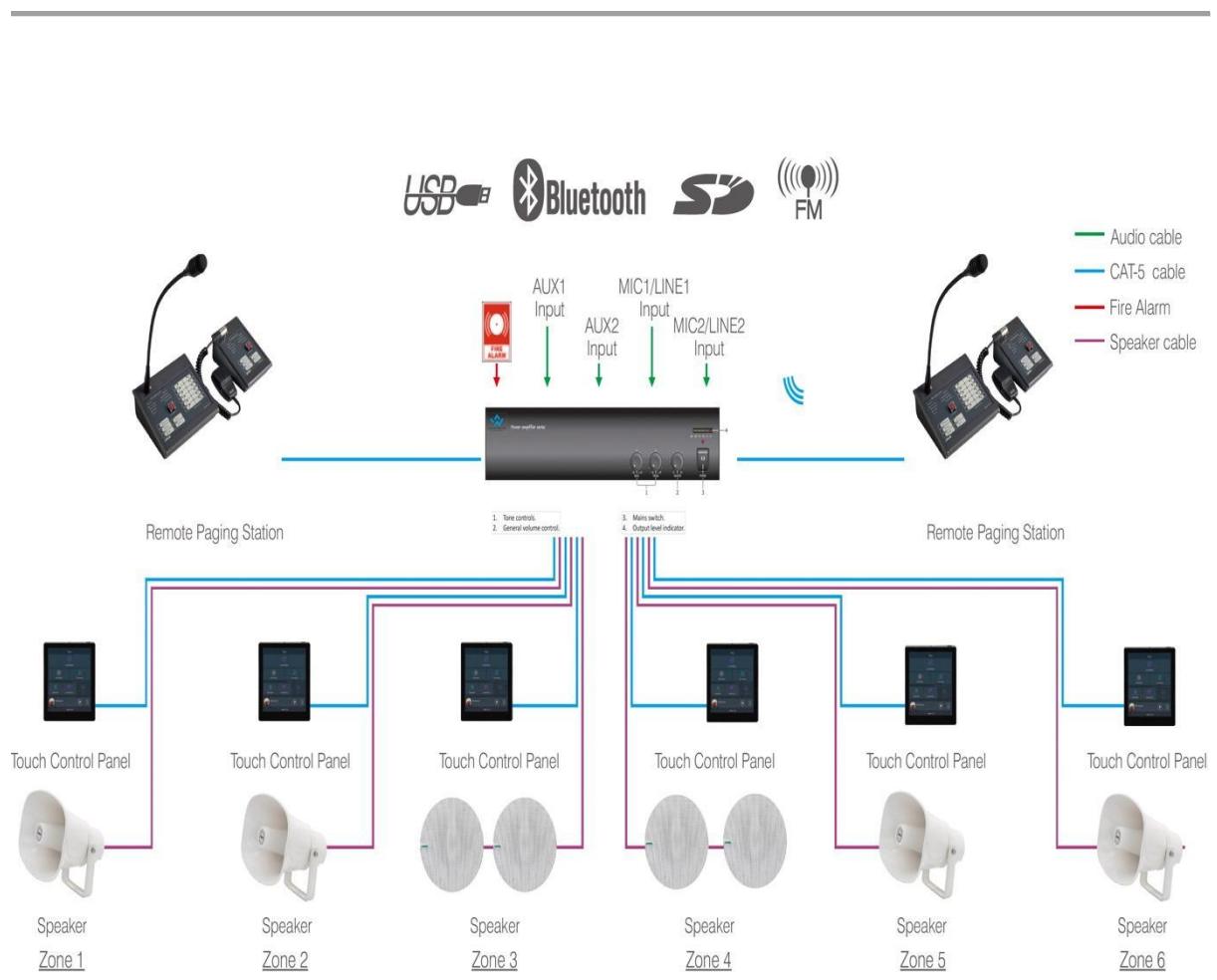


## MBSRE (Main Broadcast and Sound Reproducing Equipment) System by UAVX Automation Pvt. Ltd.

The **MBSRE (Main Broadcast and Sound Reproducing Equipment)** system developed by **UAVX Automation Pvt. Ltd.** is an advanced, integrated communication solution specifically designed for naval, coast guard, and other paramilitary vessels. It ensures seamless communication, efficient operation, and enhanced safety across all zones onboard ships.

This cutting-edge system combines powerful broadcasting, safety protocols, and adaptability, making it an essential component for maritime defense operations.



### UAVX AUTOMATION GENERAL MBSRE SYSTEM LAYOUT

## Comprehensive Features of the MBSRE System

### 1. Centralized Control Panel

- **Location:** Installed on the ship's bridge or a dedicated control room.
- **Functions:**
  - Operates as the primary hub for announcements and sound reproduction.
  - Features:
    - Live microphone inputs for real-time announcements.
    - Volume and zone controls for targeted communication.
    - Interfaces with the ship's General Alarm (GA) system for emergency broadcasts.

### 2. High-Performance Amplifiers

- **Purpose:** Boosts audio signals for consistent sound clarity across the ship.
- **Placement:** Located near the main panel or in an equipment room.

### 3. Zonal Distribution Network

- **Purpose:** Divides the ship into **dedicated communication zones**:
  - Bridge.
  - Accommodation areas.
  - Machinery and engine rooms.
  - Outdoor deck spaces.
- Enables selective broadcasting to ensure relevant information reaches the intended crew.

### 4. Strategic Speaker Placement

- **Indoor Areas:** Accommodation, bridge, and machinery spaces.
- **Outdoor Areas:** Decks and muster stations with weatherproof speakers.
- **Specialized Zones:** High-decibel speakers for noisy environments like the engine room.

### 5. Seamless Emergency Alarm Integration

- **Linked to the GA system:** Automatically overrides routine broadcasts during emergencies.
- **Pre-recorded messages:** Play specific alerts for fire, evacuation, or other critical scenarios.

## 6. Sound Sources for Versatility

- **Inputs:** Microphones, CD players, digital media devices.
- **Uses:** Announcements, background music, pre-recorded safety messages.

## 7. Power Supply and Redundancy

- **Primary:** Connected to the ship's main power grid.
- **Backup:** Emergency power sources ensure uninterrupted functionality.

## 8. Advanced Cable Network

- Shielded, fire-resistant cabling for safety and reliability.
- Routed through protective conduits to prevent interference or damage.

## 9. Monitoring and Testing Equipment

- Includes built-in testing tools for verifying system performance.
- Features:
  - Test tones for speaker checks.
  - Real-time indicators for operational status.

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## Why Choose MBSRE by UAVX Automation Pvt. Ltd.?

1. **Compliance with Military Standards:**
  - Fully compatible with **naval, coast guard, and paramilitary vessel requirements.**
  - Meets stringent operational and safety standards for maritime defense.
2. **Integration with Ship Automation Systems:**
  - Links with ship automation systems for dynamic adjustments based on stability and operational needs.
  - Interfaces with navigation systems to synchronize communication during missions.
3. **Customizable for Mission-Specific Needs:**
  - Modular design for easy customization and scalability.
  - Configurable zones, alarms, and inputs to match vessel requirements.
4. **Environmentally Robust Design:**
  - Built to withstand harsh marine environments, including extreme temperatures, humidity, and vibrations.
5. **Adaptable for Multi-Mission Vessels:**
  - Suitable for naval operations, search-and-rescue missions, patrol duties, and training exercises.

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## Key Benefits for Naval and Paramilitary Use:

- **Enhanced Operational Communication:** Critical for efficient coordination during maritime missions.
- **Safety-First Design:** Integrated alarms and emergency systems for life-saving responses.
- **Durability and Reliability:** Proven performance in high-stakes environments.

### **Targeted Use Cases:**

- **Navy Ships:** Designed for efficient communication in battle and peacekeeping operations.
- **Coast Guard Vessels:** Ensures swift dissemination of instructions during search and rescue or patrol missions.
- **Paramilitary Ships:** Ideal for multi-purpose vessels supporting law enforcement, surveillance, and emergency response.

### **MBSRE:**

- "Main Broadcast System for Naval Ships."
- "MBSRE for Coast Guard Vessels."
- "Sound Reproducing Equipment for Maritime Defense."
- "Marine Broadcast System for Paramilitary Ships."
- "Integrated Communication Systems for Ships."
- "Ship Alarm and Announcement Systems for Navy."
- "Durable Broadcast Solutions for Coast Guard Ships."
- "Emergency Broadcast System for Naval Operations."

### **Why MBSRE by UAVX Automation Pvt. Ltd. Stands Out**

The MBSRE system by **UAVX Automation Pvt. Ltd.** provides a **mission-critical communication solution** tailored for defense and paramilitary maritime applications. Its robust design, advanced features, and unparalleled reliability make it the go-to choice for enhancing operational efficiency and safety onboard.

For **customized solutions** or further information, contact **UAVX Automation Pvt. Ltd.** today and revolutionize your ship's communication system!

Would you like assistance creating additional materials such as **diagrams, technical brochures, or webpage content?**

### **MBSRE System**

## Key Components:

### 1. Central Control Unit (CCU):

- The **Central Control Unit (CCU)** from UAVX Automation is the core of the system, offering centralized control for PA announcements, alarm signals, and audio distribution. The unit is **CE certified, EMI/EMC compliant**, and manufactured using **best-in-class industry standards** to meet stringent military and maritime requirements.

### 2. Amplifiers:

- Our **digital amplifiers**, built for military-grade reliability, provide high-performance audio output and are **class-certified** for marine environments. They offer consistent sound clarity and coverage across naval and maritime platforms, ensuring effective communication even under challenging conditions.

### 3. Remote Volume Control Units:

- UAVX Automation's **remote volume control** units allow easy management of audio levels in various zones, offering flexibility and precision. These units are **EMI/EMC compliant**, ensuring minimal interference in sensitive environments.

### 4. Loudspeakers:

- Our **horn and ceiling loudspeakers**, designed for both **military** and **commercial maritime** applications, are **CE certified** and weatherproof. They provide high-quality sound in high-noise environments and are ideal for emergency signaling and routine announcements.

### 5. Tone Generators & Audio Equalizers:

- The **tone generators** and **audio equalizers** from UAVX Automation offer clear and distinct alarm signals, ensuring easy identification of emergency tones and messages, while meeting **EMI/EMC compliance** standards.

### 6. Intercom System Integration:

- The integrated **intercom system** allows seamless communication across different areas of the vessel, ensuring that crucial messages are delivered promptly. Designed for **military-grade** applications, the system supports reliable and clear voice communication.

### 7. Backup Power Supply:

- The **Uninterruptible Power Supply (UPS)** ensures uninterrupted operation of the entire MBSRE system during power interruptions, keeping communication and alarm functions active even in emergency scenarios.

### 8. Communication Consoles:

- UAVX Automation's **communication consoles** allow operators to manage and control announcements, alarms, and broadcasts with ease. These consoles are **CE certified** and offer robust functionality to withstand the harsh conditions of naval and maritime environments.

### 9. Alarm Systems:

- The **General Alarm (GA)** system delivers prompt emergency alerts throughout the vessel, and is integrated with **flashing beacons** for high-noise areas. The system is **class-certified** for marine applications, ensuring compliance with all safety regulations.

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## Features and Benefits:

- **Durability and Reliability:** UAVX Automation's MBSRE system is manufactured to **military-grade** standards, ensuring reliable and robust performance even in harsh maritime conditions. All components are produced using **best-in-class industry standards**, making the system **affordable yet effective** for a range of maritime applications.
- **Compliance:** The system is **CE certified** and **EMI/EMC compliant**, ensuring it meets international standards for electromagnetic compatibility and safety. It is also **class-certified** by major maritime classification societies, guaranteeing compliance with regulatory requirements.
- **Custom Solutions:** As part of our **turnkey projects**, UAVX Automation offers **customized solutions** to meet the specific needs of each vessel, ensuring that the system is perfectly suited to the operational and safety requirements of naval and maritime platforms.
- **Scalability:** The MBSRE system is highly scalable, allowing easy expansion to suit larger vessels or more complex setups. Additional amplifiers, loudspeakers, and remote control units can be integrated without compromising performance.
- **Seamless Integration:** Our system integrates smoothly with existing communication, safety, and navigation systems onboard, offering a unified solution for maritime communication and safety management.
- **Cost-Effective Solution:** Designed to be **affordable yet effective**, the MBSRE system offers high-performance features without compromising quality or safety, making it a cost-effective solution for naval and maritime operations.

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The **MBSRE system, designed and manufactured by UAVX Automation Private Limited**, delivers a high-performance, customizable solution for naval and maritime platforms. With **class certification**, **CE certification**, **EMI/EMC compliance**, and **military-grade reliability**, our system ensures seamless communication, clear alarm systems, and reliable audio management in the toughest maritime environments. Whether for military or commercial applications, UAVX Automation provides the **turnkey projects** and **customized solutions** to meet your exact needs.