

## QR10PA portable PA system

### Introduction

Lancaster & Morecambe U3A have two QR10PA amplifiers which are suitable for providing speech or music over a large area. Indoors, their 50W output is suitable for a folk dance group in a church hall or for speech in rooms seating up to 200 people. Outdoors, their range is significantly less. They are not suitable for critical listening to music or for loud disco-type dance events.

The amplifiers can be powered either from the mains, via a 15V power supply unit (PSU) or, for up to 8 hours, by a fully charged internal battery. Charging is through the PSU

The amplifiers have internal media players that can accept music in WMA or MP3 formats stored on SD cards or USB sticks:



SD card



USB memory stick



The amplifiers have inputs suitable for two wired microphones, or a radio microphone and/or CD player, tape player, computer or similar. They came with VHF radio mics (174.1 MHz) and they have a built-in FM radio receiver. The analogue VHF mics have not proved satisfactory and have fallen into disuse. In 2025, we bought Behringer 2.4 GHz UHF digital systems to replace them (see Equipment Note 132 A).

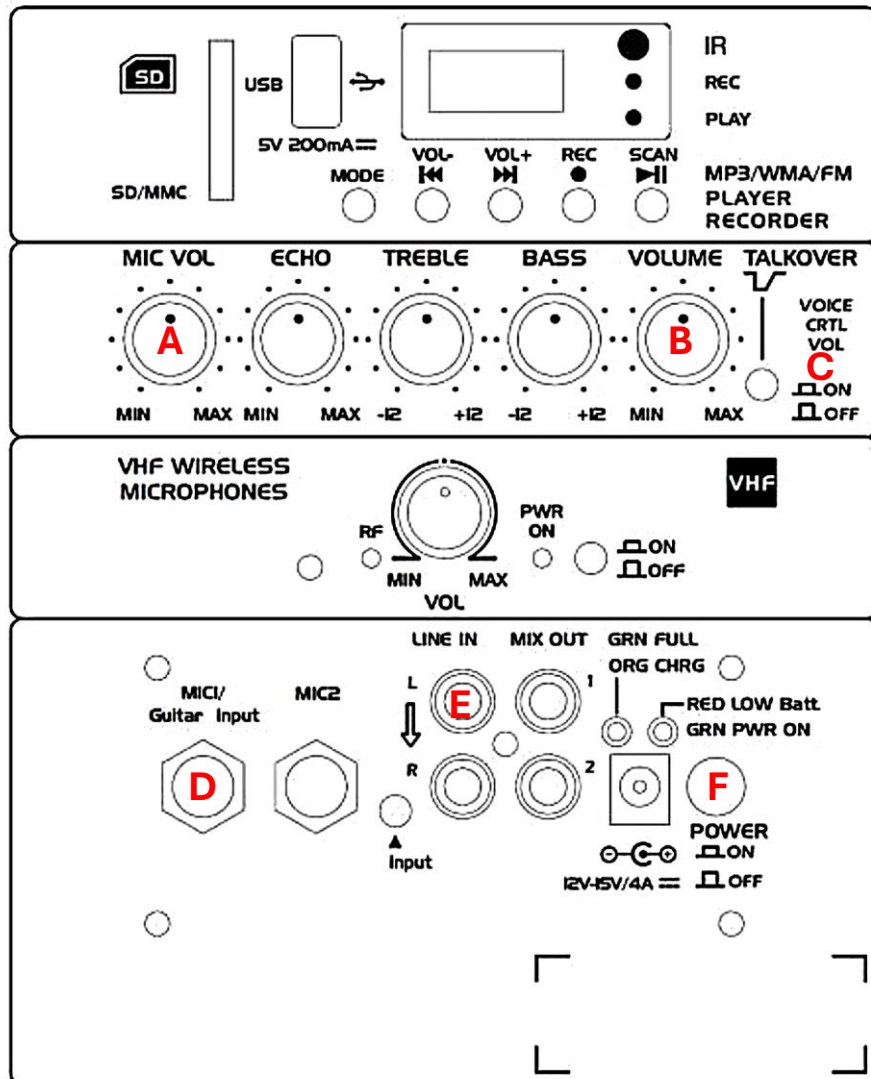
### Media player

To play music, insert a USB memory stick or an SD card with MP3 or WMA audio files stored on it into the relevant slot on the rear panel. The control are shown here:

- MODE** Switches mode between playback from USB, SD or FM tuner
- VOL-** Previous track/station, hold for volume down
- VOL+** Next track/station, hold for volume up
- REC** Record mode
- SCAN** Play / pause track – auto tuning in FM mode

There is also an infra-red control (zapper) for the media player which is probably easier to use than these dual-function push buttons. Detailed guidance on this system can be found in the printed instruction manual.

## Connections and controls



- ◇ Power is switched on by the button **F**, adjacent to lights that show the state of the internal battery.
- ◇ Either a wired mic or a radio mic can be connected to the ¼ inch jack socket **D**. The mic volume is controlled by the knob **A**.
- ◇ If music is provided from a separate music player or computer, it can be connected to the LINE IN phono connectors **E**. Music volume is controlled by the knob **B**.

## Speaking over music

The VCV (voice control volume) button **C** activates a muting function which turns down the music when it detects input from a microphone. This can be useful in allowing the caller to be heard without turning down the music too far. If the sound keeps dropping out, check this function has not inadvertently been switched on.