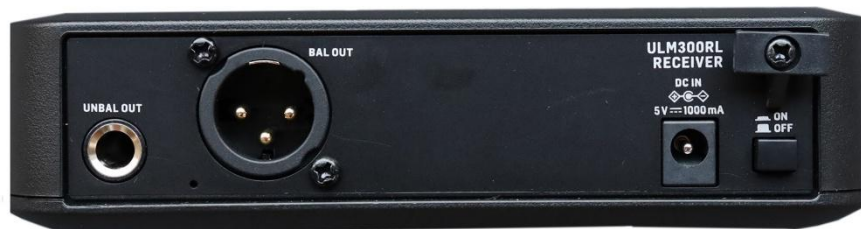


## Behringer ULM300LAV Digital wireless microphone

The Behringer ULM300LAV microphones (U3A tags 132 and 133) are radio systems with clip-on microphone, belt-clip transmitter, and receiver capable of providing a signal to an amplifier:



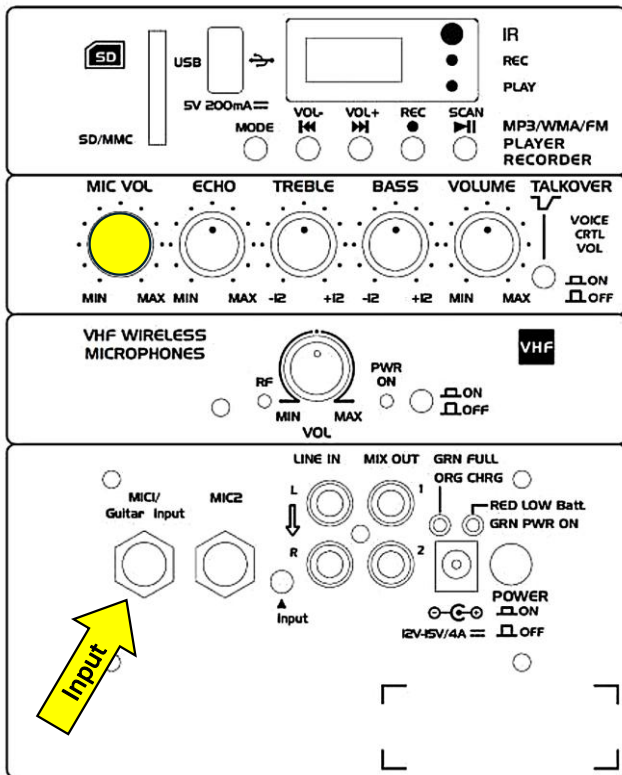
The microphone should be clipped to clothing 15 to 20 cm from your mouth. Unlike mics used by TV presenters, it is directional so should point upwards. (Be careful not to lose the foam wind guard.) It plugs into the ¼ inch jack socket on the transmitter which clips to your belt, or slips in a pocket. There is an ON/OFF switch on the transmitter, for when you don't want to be heard.



The receiver, shown above, has a connection for the power supply unit (PSU) and two outputs, a balanced output on an XLR connector for use with a mixing desk, and an unbalanced output on a ¼ inch jack socket for use with a PA system. On the other side of the unit, there are indicators for mains power, the state of the transmitter battery and the strength of the received signal. It uses the 2.4 GHz part of the UHF radio spectrum and can “hear” the microphone transmitter from about 30 metres away.

If used with a QR10PA portable amplifier (U3A tag 079 or 127) the unbalanced output is used via the green [in the above picture] plug-to-plug cable stored with the microphone.

The amplifier control panel is shown over the page:



The microphone receiver should be connected to the **MIC1/Guitar** input (arrowed) and the volume can be set by the **MIC VOL** control (in yellow). If music is being played from other equipment (e.g. a computer or CD player) it can be fed into the **LINE IN** sockets and controlled by the **VOLUME** control, the right-hand knob. As a starting position, try both **MIC VOL** and **VOLUME** at about 20%. (Used with these mics, **MIC VOL** should never need to be more than 50%.)

The echo control should be at minimum. For starters, set the treble and bass controls level (i.e. with the line vertically up.) These can be adjusted depending on the voice of the person who's speaking and the room acoustics.

The **VHF WIRELESS MICROPHONE** and the **TALKOVER** control should both be **OFF**.

The transmitter uses two AA-size batteries. They should last for a minimum of 4 hours – probably longer. There are spare batteries in the box with the power supply. Please don't put dead batteries back in the box.

If the transmitter batteries are good, a green light shows on the front panel of the receiver (see photo). When the batteries are flat, this light flashes or goes out. The four lights at the right show the signal strength and, when someone is speaking into the mic, the **AUDIO** light illuminates. These indications confirm that the radio microphone is working and is providing a signal to the amplifier.



The receiver and the amplifier both have PSUs. However, they are not interchangeable! The Behringer PSU is 5V and has a negative central contact and the QR10PA PSU is 15V with a positive central contact.

The two mics (U3A tags 132 and 133) were bought for use in different places. In theory, they can be used in the same room, but there may be setting-up problems. If this is necessary, please discuss beforehand.