

# AR32H

Single Channel Headworn  
Microphone System



## KEY FEATURES



### AFS(Automatic Frequency Selection)

Press the “⏮/⏭” button for 3 sec and the receiver will auto-scan and lock on to an open,interference free frequency.



### IR Infrared Sync

Press [IR] button to pair automatically the receiver frequency with the transmitter.



### Anti-Interference

PLL(Phase Lock Loop frequency control) design ensures transmission reliability, “NoiseLock” squelch effectively blocks stray RF.



### Compatible systems

Maximum 24 set can be used simultaneously by using multiple frequency bands in one venue.



### Full Band Transmitter

134MHz full band transmitter allows pairing with the receiver irrespective of frequency band.



### Energy Conservation

Low RF power mode gives twice the battery life of up to 14 hours\*.(On AA Alkaline Batteries)

## AR2 BODYPACK TRANSMITTER



AR2 is a compact & lightweight body-pack style transmitter made for clip-on microphones housed in a durable metal body with a multifunction OLED display. The OLED display provides frequency, channel, lock & battery status. It comes to a mini XLR (TA4M input jack) terminal with an audio gain adjustment switch (0,-6,-12dB) and RF boost (10/40 mW) switch for a higher operating distance. With wide operating bandwidth of 134 MHz, it can be paired/synced with any of the Arche receivers irrespective of the frequency band of the receiver unit. The bodypack transmitter can be used with an AR-2H electret condenser headworn microphone with a omnidirectional capsule designed for speech & musical instruments.

|                         |                                  |
|-------------------------|----------------------------------|
| CARRIER FREQUENCY RANGE | 522MHz~936MHz                    |
| OSCILLATION             | PLL Synthesized                  |
| HARMONIC RADIATION      | <45dBm                           |
| BANDWIDTH               | 134MHz(It depends on the region) |
| MAX. DEVIATION RANGE    | ±45KHz                           |
| INPUT CONNECTOR         | TA4M/LEMO connector              |
| RF OUTPUT POWER         | 10mW/40mW                        |
| BATTERY                 | AA x 2                           |
| CURRENT CONSUMPTION     | 110mA(Typical)                   |
| OPERATING HOURS         | Approximately 14 hours*          |
| DIMENSION (MM)          | 84(H) X66(W) X 23(D)             |
| WEIGHT                  | 155g (w/o battery)               |
| HOUSING                 | Die cast metal body              |

\*on 10mw RF

## AR3 SINGLE CHANNEL DIVERSITY RECEIVER



AR3 is a 1/2 EIA standard Rack Unit metal chassis single-channel wireless receiver for AR1 & AR2 transmitters. Bright & intuitive LCD front panel display gives necessary information like RF level, Audio levels, working channel & transmitter battery status, etc. With 32MHz operating bandwidth, each receiver band allows up to 10 compatible systems which are interference-free. With multiple bands, it can reach up to 24 compatible systems\*. The PLL synthesized circuitry ensures RF transmission reliability with separation from GSM & other EMI interference. AFS (Auto Frequency Selection) functions scan the environment and lock itself in an open interference-free frequency channel. The diversity antenna circuit chooses the better one receiving out of its 1/2 Wave Antennae to give optimum RF stability every time.

|                            |   |
|----------------------------|---|
| CARRIER FREQUENCY RANGE    | 522MHz~936MHz                             |
| MODULATION MODE            | FM stereo modulation                      |
| OSCILLATION                | PLL synthesized                           |
| SENSITIVITY                | 5dBμV, S/N>60dB at 25 deviation           |
| OPERATING BANDWIDTH        | 32MHz (E,I,J,K)                           |
| MAX DEVIATION RANGE        | ±45KHz                                    |
| S/N RATIO                  | >105dB                                    |
| T.H.D                      | <0.7%@1KHz                                |
| FREQUENCY RESPONSE (AUDIO) | 45Hz-18KHz ±3dB                           |
| OPERATING RANGE            | 100M typical*                             |
| POWER SUPPLY               | DC 12V/12W adapter                        |
| DIMENSION (MM)             | 205(W)x206(D)x43(H)                       |
| WEIGHT                     | Approximately 1.0kg                       |
| OUTPUT CONNECTOR           | XLR balanced & 6.3φ phone jack unbalanced |
| HOUSING                    | Pressed steel powder coated enclosure     |

\*Actual range depends upon clear line of sight & interference

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