

## ARCHE WIRELESS MICROPHONE SYSTEM

Arche Wireless Microphones offer stable RF connection with natural sound reproduction for glitch free audio performance. Manufactured with best in class components and intuitive interface to display the critical parameters. Choose from wide variety of combinations or sets to match the exact needs of sound reinforcement





## 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.

## Anti-Interference

PLL(Phase Lock Loop frequency control) design ensures transmission reliability, "Noise Lock" 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.

## IR Infrared Sync

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

## Energy Conservation

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



## AR3

Single channel diversity receiver



The AR3 is a 1/2 EIA standard Rack Unit metal chassis single-channel wireless receiver for AR1 & AR2 transmitters. Its bright and intuitive LCD front panel display provides necessary information such as RF level, audio levels, working channel, and transmitter battery status. With a 32MHz operating bandwidth, each receiver band supports up to 10 compatible systems that are interference-free. With multiple bands, it can support up to 24 compatible systems\*. The PLL synthesized circuitry ensures RF transmission reliability, effectively separating it from GSM and other EMI interference. The AFS (Auto Frequency Selection) function scans the environment and locks onto an open, interference-free frequency channel. The diversity antenna circuit selects the better signal from its 1/2 Wave Antennae, ensuring optimum RF stability at all times. The AR3 is supplied with metal accessories that facilitate permanent installation in a 19-inch rack.

### TECHNICAL SPECIFICATIONS

Carrier Frequency Range	522MHz~936MHz
Modulation Mode	FM stereo modulation
Oscillation	PLL synthesized
Sensitivity Operating	5dBμV, S/N>60dB at 25 deviation
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	80~100M* typical (in open space)
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

## AR33

Dual channel diversity receiver



The AR33 is a dual channel wireless receiver for AR1 & AR2 transmitters, housed in a 1 EIA standard Rack Unit metal chassis. Its bright and intuitive LCD front panel display provides the necessary information for both transmitters, such as RF level, audio levels, working channel, and transmitter battery status. With a 32MHz operating bandwidth for each receiver, the band supports up to 10 compatible systems that are interference-free. With multiple bands, it can support up to 24 compatible systems\*. The PLL synthesized circuitry ensures RF transmission reliability, effectively separating it from GSM and other EMI interference. The AFS (Auto Frequency Selection) function scans the environment and locks onto an open, interference-free frequency channel. The diversity antenna circuit selects the better signal from its 1/2 Wave Antennae, ensuring optimum RF stability at all times. The AR33 is supplied with metal accessories that facilitate permanent installation in a 19-inch rack.

### TECHNICAL SPECIFICATIONS

Carrier Frequency Range	522MHz~936MHz
Modulation Mode	FM stereo modulation
Oscillation	PLL synthesized
Sensitivity Operating	5dBμV, S/N>60dB at 25 deviation
Bandwidth	32MHz (E,I,J,K)
Max Deviation Range	±45KHz
S/N Ratio	>105dB
T.H.D	<0.7%@1KHz
Frequency Response (audio)	80Hz-18KHz ±3dB
Operating Range	80~100M* typical (in open space)
Power Supply	DC 12V/12W adapter
Dimension (mm)	410(W) x 206 (D) x 43 (H)
Weight	1.9kg
Output Connector	XLR balanced & 6.3φ phone jack unbalanced
Housing	Pressed steel powder coated enclosure

## AR1

Handheld Transmitter



AR1 Handheld wireless transmitter is a dynamic vocal microphone housed in a durable metal body with an OLED display. The OLED display provides frequency, channel, lock & battery status. It comes with an audio gain adjustment switch (0,-6,-12dB) and an 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 microphone head is a unidirectional dynamic transducer designed for speech & musical applications.

### TECHNICAL SPECIFICATIONS

Carrier Frequency Range	522MHz~936MHZ
Oscillation	PLL Synthesized
Operating Bandwidth	134MHz
Max. Deviation Range	±45KHz
Microphone Element	Dynamic (removable mic head)
Polar Pattern	Cardioid
RF Output Power	10mW/40mW
Battery	AA x 2 (Alkaline)
Current Consumption	110mA (Typical)
Battery Current/ Life	Approximately 14 hours*
Microphone Lengths (mm)	52(Φ)x255(L)
Weight	Approximately 235g (w/o battery)
Housing	Die cast metal body

## AR2

Body Pack 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 AR2L electret condenser lavalier microphone with a unidirectional capsule designed for speech & musical instruments.

### TECHNICAL SPECIFICATIONS

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)
Battery Current/ Life	Approximately 11 hours
Dimension (mm)	84(H) X66(W) X 23(D)
Weight	155g (w/o battery)
Housing	Die cast metal body

AR2L

Lavalier Microphone



AR2L lavalier microphone designed to work with Arche wireless transmitter is a high sensitivity microphone to produce superior speech clarity. The microphone capsule comes with cardioid pick up pattern and the full frequency range offers natural audio response. The microphone comes with thick 1.4 mm cable with 120 cm long cable with TA4F connector.

TECHNICAL SPECIFICATIONS

Element	Back Electret Condenser
Polar pattern	Uni-Directional
Sensitivity	-37dB
Outout Imdepance	<1.8KΩ
S/N Ratio	>59dB
Dimensions of capsule	(Φ)4.0x1.5mm
Frequency response	20Hz-20KHz
Power Supply	2-10V DC
Cable	1.2m
Connector	TA4F

AR2H

Headworn Microphone



\*Available in Black & Tan color

AR2H headset microphone gives speakers the much-needed freedom to perform freely while on stage. Discreet and lightweight in design, AR2H head worn microphone offers crisp, natural vocal response through its improved condenser capsule. Designed to work perfectly with Arche Wireless Microphones, the wide frequency response makes it suitable for all kinds of vocal textures and sound profiles. The microphone comes with thick 1.4 mm cable with 120 cm long cable with TA4F connector.

TECHNICAL SPECIFICATIONS

Element	Back Electret Condenser
Polar pattern	Omni Directional
Sensitivity	-40.5dB ±2dB
Outout Imdepance	<2.2KΩ
S/N Ratio	>59dB
Dimensions of capsule	(Φ)4.0x1.5mm
Frequency response	20Hz-15KHz
Power Supply	210V DC
Cable	1.2m
Connector	TA4F



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