



RION CO., LTD.

## Condenser Microphones UC Series



Wide model range including 1 to 1/4 inch sizes and field type and pressure types covers many applications

1 inch microphones can measure also very low sound pressure levels, but high frequency response is normally limited to about 10 kHz. For measurements up to high frequencies and high sound pressure levels, 1/2 inch and 1/4 inch microphones are used.

Model	UC-27	UC-32P	UC-34P	UC-30	UC-31	UC-33P	UC-52	UC-53A	UC-57	UC-29
Applicable preamplifier	NH-06A	NH-06A	NH-34 set	NH-04A/05A/12A	NH-04A/05A/12A	NH-04A/05A/12A	NH-17/17A/22	NH-17/17A/22	NH-17/17A/22	NH-05A (UA-12 required)
Nominal diameter	1 inch			1/2 inch						1/4 inch
Frequency response	Field	Pressure	Field	Field	Field	Pressure	Field	Field	Field	Field
Frequency range (Hz)	5 to 12 500	5 to 9 000	10 to 12 500	10 to 20 000	10 to 35 000	10 to 20 000	20 to 8 000	10 to 20 000	10 to 16 000	20 to 100 000*2
Bias voltage (V)	200	200	200	200	200	200	0	0	0	200
Sensitivity level (dB re 1 v/Pa)*1	-26.5	-27	-21	-25.5	-37	-38	-33	-28	-22	-47
Capacitance (pF)	54	56	—	17	20	20	19	12	14	6
Maximum input sound pressure level (dB)	149	150	—	149	160	160	146	150	132	164
A-weighted Inherent noise (dB)	12	13	2	20	26	28	24	20	14	42
Temperature coefficient (dB/°C)	-0.005	-0.008	—	-0.007	-0.007	-0.009	-0.008	+0.005	—	-0.01
Diaphragm	Titanium alloy									Titanium
Dimensions (mm)	23.8 (dia.) x 21.0	23.8 (dia.) x 21.0	23.8 (dia.) x 13.1	13.2 (dia.) x 15.0	13.2 (dia.) x 13.2	13.2 (dia.) x 13.2	13.2 (dia.) x 12.0	13.2 (dia.) x 12.5	13.2 (dia.) x 13.5	7.0 (dia.) x 10.0

\*1 1 kHz Representative value

\*2 UC-29's frequency range is the one (measured on condition) that the grid at its top is taken off.