

Compact Antenna Tuner for the IC-705, Tunable 50 Ω Antenna and Long Wire Antenna

Covers the 1.8 MHz to 50 MHz bands

30 m, 98.4 ft or longer antenna: 1.8 – 54 MHz,
7 m, 23 ft or longer antenna: 3.5 – 54 MHz

* Depending on operating conditions or environments, the tuner may not be able to tune the antenna.

SO-239 antenna connector for 50 Ω antenna such as dipole or Yagi

“Terminal connector”, binding post socket adapter supplied for a long wire antenna

2-way power sources using alkaline batteries or external 13.8 V DC*

* 13.8 V DC should be taken directly from an external power supply, not through the IC-705.

IP54 dust-protection and water resistance construction*

* The connectors should be covered with an adhesive tape or a jack cover to prevent water seeping into the connection.

Full automatic tuning, just push the [TUNER] button on the IC-705

Latching relays used for saving power consumption

190 × 105 × 40 mm; 7.5 × 4.1 × 1.6 in, 450 g; 15.8 oz* compact design

* Battery cells are not included.



AH-705



Wire antenna installation example



50 Ω antenna example

SPECIFICATIONS

| | |
|---|---|
| Tunable frequency range | 1.8 – 54 MHz (with a 30 m, 98.4 ft or longer antenna) 3.5 – 54 MHz (with a 7 m, 23 ft or longer antenna) |
| Maximum input power | 10 W |
| Input impedance | 50 Ω |
| Power requirement for tuning | 5 W, 10 W |
| Tuning time (approximate) | Average: 2 – 3 seconds Maximum: 15 seconds |
| Power supply requirement | Battery: 3.0 V DC (LR6 (AA) alkaline × 2 cells) DC Input: 13.8 V DC (±15%) |
| Current drain | Less than 300 mA (at tuning) Less than 1 mA (stand-by) |
| Electric polarity | Negative ground |
| Operating temperature range | –10°C to +60°C, 14°F to +140°F |
| Tuning accuracy | Less than 1: 2.0 VSWR (except $\lambda/2$ of antenna length and its multiples) |
| Number of tuned memories | 45 memories |
| Dimensions (W × H × D) (projections not included) | 190 × 105 × 40 mm; 7.5 × 4.1 × 1.6 in |
| Weight (approximate) | 450 g, 15.8 oz (battery cells are not included) |

All stated specifications are subject to change without notice or obligation.

Applicable IP Rating

| Ingress Protection Standard | |
|-----------------------------|--|
| IP rating | IP54 (Dust-protection and water resistant) |

SUPPLIED ACCESSORIES



- Coaxial cable (2 m, 6.6 ft, BNC connectors, between AH-705 and IC-705)
- Control cable (2 m, 6.6 ft, between AH-705 and IC-705)
- Terminal connector, PL-259 to binding post socket adapter for a long wire antenna
- Mounting bracket (with a screw and washer)
- DC plug

OPTIONAL ACCESSORIES

OPC-2474 (5 m, 16.4 ft)
CONTROL CABLE
between AH-705 and IC-705

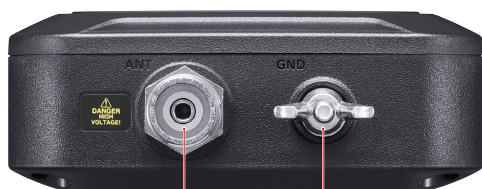


OPC-2475 (5 m, 16.4 ft)
COAXIAL CABLE
between AH-705 and IC-705
(BNC connectors)



PANEL VIEW

TOP
(antenna side)



SO-239 connector
(To 50 Ω antenna
or long wire antenna)

Ground terminal

BOTTOM
(radio side)



BNC connector
(To IC-705)

Control
(To IC-705)

DC power
(13.8 V DC)

The AH-705 fits into the LC-192 multi-function backpack



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Icom Inc. 1-1-32, Kamiminami, Hirano-Ku, Osaka 547-0003, Japan Phone: +81 (06) 6793 5302 Fax: +81 (06) 6793 0013 www.icomjapan.com **Count on us!**

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