

### 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 λ/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

Icom, Icom Inc. and the Icom logo are registered trademarks of Icom Incorporated (Japan) in Japan, the United States, the United Kingdom, Germany, France, Spain, Russia, Australia, New Zealand and/or other countries.

**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](http://www.icomjapan.com) **Count on us!**

**Icom America Inc.**  
[www.icomamerica.com](http://www.icomamerica.com)

**Icom (Europe) GmbH**  
[www.icomeurope.com](http://www.icomeurope.com)

**Icom (Australia) Pty. Ltd.**  
[www.icom.net.au](http://www.icom.net.au)

Your local distributor/dealer:

**Icom Canada**  
[www.icomcanada.com](http://www.icomcanada.com)

**Icom Spain S.L.**  
[www.icomspain.com](http://www.icomspain.com)

**Icom Asia Co., Ltd.**  
[www.icomasia.com](http://www.icomasia.com)

**Icom Brazil**  
E-mail: [sales@icombrasil.com](mailto:sales@icombrasil.com)

**Icom (UK) Ltd.**  
[www.icomuk.co.uk](http://www.icomuk.co.uk)

**Shanghai Icom Ltd.**  
[www.bjicom.com](http://www.bjicom.com)

**Icom France s.a.s.**  
[www.icom-france.com](http://www.icom-france.com)