

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 environment, 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 adapter supplied for a long wire antenna*

* PL-259 plug is supplied for Europe version.

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 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

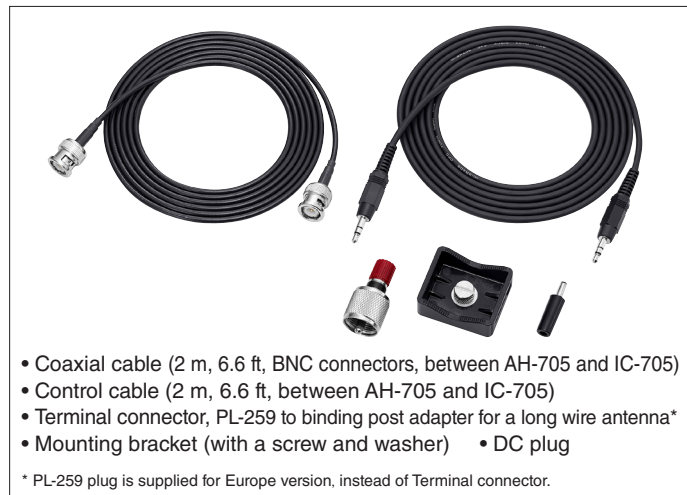
Tunable frequency range	1.8 – 54 MHz (with a 30 m, 98.4 ft or longer antenna) 3.5 – 54 MHz (with a 7 m, 23 ft or longer antenna)
Maximum input power	10 W
Input impedance	50 Ω
Power requirement for tuning	5 W, 10 W
Tuning time (approximate)	Average: 2 – 3 seconds Maximum: 15 seconds
Power supply requirement	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 adapter for a long wire antenna*
- Mounting bracket (with a screw and washer) • DC plug

* PL-259 plug is supplied for Europe version, instead of Terminal connector.

OPTIONAL ACCESSORIES

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



OPC-2475
COAXIAL CABLE (5 m, 16.4 ft)
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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