



HF/50MHz ALL MODE TRANSCEIVER

IC-7410

The Best Balance of Technology,
Performance and Fun!



SPECIFICATIONS

GENERAL

- Frequency coverage :
 - USA version
 - Rx 0.030–60.000MHz*
 - Tx 1.800–1.999MHz 3.500– 3.999MHz
 - 5.255–5.405MHz* 7.000– 7.300MHz
 - 10.100–10.150MHz 14.000–14.350MHz
 - 18.068–18.168MHz 21.000–21.450MHz
 - 24.890–24.990MHz 28.000–29.700MHz
 - 50.000–54.000MHz
 - Europe, Europe-01 version
 - Rx 0.030–60.000MHz*
 - Tx 1.810–1.999MHz 3.500– 3.800MHz
 - 7.000–7.100MHz (Europe)
 - 7.000–7.200MHz (Europe-01)
 - 10.100–10.150MHz 14.000–14.350MHz
 - 18.068–18.168MHz 21.000–21.450MHz
 - 24.890–24.990MHz 28.000–29.700MHz
 - 50.000–52.000MHz
- * Some frequency bands are not guaranteed.
- Mode : USB, LSB, CW, RTTY, AM, FM
- Number of memory Ch. : 101 (99 regular, 2 scan edges)
- Antenna connector : SO-239x2 (50Ω)
- Temperature range : 0°C to +50°C; +32°F to +122°F
- Frequency stability : Less than ±0.5ppm (0°C to 50°C; +32°F to +122°F)
- Power supply requirement : 13.8V DC ±15% (negative ground)
- Current drain (at 13.8V DC):
 - Tx Max. power 23A
 - Rx Stand-by 2.2A
 - Max. audio 3.0A
- Dimensions (W×H×D) : 315×116×343 mm; (projections not included) 12.4×4.57×13.5 in
- Weight (approx.) : 10.2kg; 22.4lb

TRANSMITTER

- Output power :
 - SSB, CW, RTTY, FM 2–100W
 - AM 2–27W
- Modulation system :
 - SSB Digital PSN modulation
 - AM Digital low power modulation
 - FM Digital phase modulation
- Spurious emission : Less than –50dB (HF bands) Less than –63dB (50MHz band)
- Carrier suppression : More than 40dB
- Unwanted sideband suppression : More than 55dB
- Microphone connector : 8-pin connector (600Ω)

RECEIVER

- Receive system : Double conversion superheterodyne
- Intermediate frequencies : 1st 64.455MHz 2nd 36kHz
- Sensitivity (typical) :

	0.5–1.8MHz	1.8–29.9MHz	50–54MHz
SSB/CW	—	0.16μV ^{*1}	0.13μV ^{*2}
AM	12.6μV ^{*1}	2.0μV ^{*1}	1.6μV ^{*2}
FM	—	0.5μV ^{*3}	0.32μV ^{*3}

10dB S/N for SSB, CW, RTTY and AM, 12dB SINAD for FM
^{*1} Pre-amp 1 ON, ^{*2} Pre-amp 2 ON, ^{*3} 28–29.7MHz.
- Squelch sensitivity (Pre-amp : ON) :
 - SSB Less than 5.6μV
 - FM Less than 0.3μV
- Selectivity :
 - SSB More than 2.4kHz / –6dB
 - (BW : 2.4kHz, sharp) Less than 3.4kHz / –40dB

- CW (BW : 500Hz, sharp) More than 500Hz / –6dB
- RTTY (BW : 350Hz, sharp) Less than 700Hz / –40dB
- AM (BW : 6kHz) Less than 800Hz / –40dB
- More than 6.0kHz / 6dB
- Less than 10.0kHz / –40dB
- More than 12.0kHz / –6dB
- Less than 22.0kHz / –40dB
- More than 70dB
- Spurious and image rejection ratio : More than 2.0W at 10% distortion with an 8Ω load
- AF output power (at 13.8V DC) : ±9.999kHz
- RIT variable range : 3-conductor 6.35 (d) mm (1/4")
- PHONES connector : 2-conductor 3.5 (d) mm (1/8")/8Ω
- EXT SP connector

ANTENNA TUNER

- Matching impedance range:
 - HF bands 16.7–150Ω unbalanced^{*1}
 - 50MHz band 20–125Ω unbalanced^{*2}
 - ^{*1} Less than VSWR 1:3 ; ^{*2} Less than VSWR 1:2.5
- Minimum operating power :
 - HF bands 8W
 - 50MHz band 15W
- Tuning accuracy : VSWR 1:1.5 or less (SWR after the motor has stopped)
- Insertion loss (after tuning) :
 - 1.8 MHz band 1.2dB or less
 - 3.5–50MHz bands 1.0dB or less

Supplied accessories :

- Hand microphone
- DC power cable
- Spare fuses
- CW key plug

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

OPTIONS

Some options may not be available in some countries. Please ask your dealer for details.



IC-PW1/IC-PW1EURO HF+50MHz 1kW LINEAR AMPLIFIER
 Covers all HF and 50MHz bands, provides clean, stable 1kW output. Automatic antenna tuner and compact detachable controller are standard. 2 exciter inputs are available.



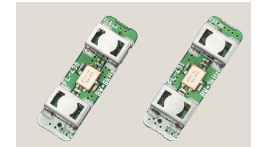
AH-4 HF+50MHz AUTOMATIC ANTENNA TUNER
 Covers 3.5–54MHz with a 7m (23 ft) or longer wire antenna.



AH-2b ANTENNA ELEMENT
 A 2.5m long antenna element for mobile operation with the AH-4. All amateur bands between 7–54 MHz can be matched.



PS-126 DC POWER SUPPLY
 13.8V DC, 25A max. with 4-pin type connector.



FL-430 6kHz 1st IF FILTER
FL-431 3kHz 1st IF FILTER
 1st IF filters for better receiver performance.



SM-50 DESKTOP MICROPHONE
 Unidirectional, electret microphone for base station operation. [UP/DOWN] switches and low cut function are available.



SM-30 DESKTOP MICROPHONE
 Compact, lightweight electret microphone. Low cut function is available.
SM-20 is also available.



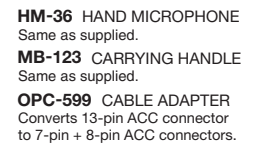
SP-21 EXTERNAL SPEAKER
 Input impedance: 8Ω
 Max. input power: 5W



SP-23 EXTERNAL SPEAKER
 4 audio filters; headphone jack.
 Input impedance: 8Ω
 Max. input power: 5W



CT-17 CI-V LEVEL CONVERTER
 For external transceiver control using a PC equipped with an RS-232C port.



HM-36 HAND MICROPHONE
 Same as supplied.
MB-123 CARRYING HANDLE
 Same as supplied.
OPC-599 CABLE ADAPTER
 Converts 13-pin ACC connector to 7-pin + 8-pin ACC connectors.

RS-BA1 IP REMOTE CONTROL SOFTWARE
 For IP remote transceiver control from a PC.

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