Direct Sampling Now Enters the VHF/UHF Arena

- All mode, tri-band transceiver covering the 144, 430/440 as well as 1200 MHz
- Real-time, high-speed spectrum scope for the 144, 430/440, 1200 MHz bands
- New PA provides a powerful 100 W (144 MHz), 75 W (430/440 MHz) and 10 W (1200 MHz) output
- Dualwatch operation and full-duplex operation in the satellite mode
- Follows Icom’s center display design style with a 4.3 inch touch screen color TFT LCD
- D-STAR provides digital clear audio and Internet capable communication
- Smooth satellite operation with normal/reverse tracking and 99 satellite channels
- Digital Data (DD) mode provides 128 kbps data communication
**GENERAL**

- **Frequency coverage:**
  - **<USA version>**
    - 144.000–148.000, 430.000–450.000, 1240.000–1300.000 MHz
  - **<EUR version>**
    - 144.000–146.000, 430.000–440.000, 1240.000–1300.000 MHz
- **Mode:**
  - SSB, CW, RTTY, AM, FM, DV, DD
- **Number of channels:**
  - 107 (99 Simplex + 6 Program scan edges + 2 CALL) x 3 bands, 99 (Satellite), 2000 (DR function)
- **Antenna connectors:**
  - 144 MHz SO-239 (50 Ω), 430/440, 1200 MHz Type-N (50 Ω)
- **Power supply requirement:**
  - 13.8 V DC ±15% (Negative ground)
- **Power consumption:**
  - RX 1.2 A typical (Standby), Less than 1.8 A (Maximum audio)
  - TX Less than 18 A (High power)
- **Operating temperature range:**
  - –10 °C to + 60 °C; 14˚F to 140˚F
- **Dimensions:**
  - 240 x 94 x 238 mm, 9.4 x 3.7 x 9.4 in (W x H x D, projections not included)
- **Weight:**
  - 4.7 kg, 10.4 lb (approximate)

**TRANSMITTER**

- **Output power:**
  - 144 MHz: 0.5–100 W, 0.125–25 W
  - 430/440 MHz: 0.5–75 W, 0.125–18.75 W
  - 1200 MHz: 0.1–10 W, 0.025–2.5 W
- **Modulation system:**
  - SSB Digital PSN modulation
  - FM Digital Reactance modulation
  - AM Digital Low Power modulation
  - DV Digital GMSK Reactance modulation
  - DD Digital Quadrature modulation
- **Spurious emissions:**
  - Less than –53 dB<br>
  - Less than –60 dB</dd>

**RECEIVER**

- **Intermediate frequency:**
  - 311–371 MHz (1200 MHz)
- **Sensitivity (Preamp: OH, Filter: SOFT):**
  - SSB/CW (10 dB S/N): Less than 0.11 µV
  - AM (10 dB S/N): Less than 1.0 µV
  - FM (12 dB SINAD): Less than 0.18 µV
  - DV (1% BER) (PN9): Less than 0.36 µV
  - DD (1% BER) (PN9): Less than 1.5 µV

- **Selectivity (Filter: SHAPE):**
  - SSB (BW=2.4 kHz): More than 2.4 kHz/−3 dB, Less than 3.6 kHz/−60 dB
  - CW (BW=600 Hz): More than 500 Hz/−3 dB, Less than 700 Hz/−60 dB
  - RTTY (BW=600 kHz): More than 500 Hz/−3 dB, Less than 700 Hz/−60 dB
  - AM (BW=6 kHz): More than 6 kHz/−3 dB, Less than 15 kHz/−60 dB
  - FM (BW=15 kHz): More than 12 kHz/−6 dB, Less than 20 kHz/−60 dB
  - DV (12.5 kHz spacing): More than –50 dB
  - DD (300 kHz spacing): More than –40 dB
- **Audio output power:**
  - More than 2.0 W (1 kHz, 10% distortion) into an 8 Ω load

**REAR PANEL**

**OPTIONS**

- **HM-219** Hand microphone with [UP/DOWN\] switches and a low cut function
- **SPS-126** DC power supply (13.8 V DC, 25 A maximum output)
- **SM-50** Dynamic desktop microphone including [UP/DOWN\] switches and a low cut function
- **SP-38** High quality audio and matching height
- **CS-9700** Maximum input: 7 W

**SUPPLIED ACCESSORIES**

- **HM-219**, hand microphone
- **DC power cable**

**OPTIONS**

- **HM-219**, hand microphone
- **DC power cable**

**SUPPLIED ACCESSORIES**

- **HM-219**, hand microphone
- **DC power cable**

**OPTIONS**

- **HM-219**, hand microphone
- **DC power cable**

**SUPPLIED ACCESSORIES**

- **HM-219**, hand microphone
- **DC power cable**