

Specifications

Frequency range: 0.1 to 29.999999MHz
with option board (CHE-199) installed

NRD-545G: 100kHz to 1999.999MHz

NRD-545U: 100kHz to 823.900MHz
849.100MHz to 868.900MHz
894.100MHz to 1849.900MHz
1910.100MHz to 1929.900MHz
1990.100MHz to 1999.999MHz

Type of reception: USB, LSB, CW, RTTY, AM, FM
WFM (with option board installed)

Frequency stability: ± 10 ppm or less for 5min. to 60min. after tuning the power on, thereafter ± 2 ppm or less per hour, and ± 0.5 ppm or less (with option TCXO installed)

Adjustable Minimum tuning step: 1Hz
(10Hz, 100Hz, 1kHz, 5kHz, 6.25kHz, 9kHz, 10kHz, 12.5kHz, 20kHz, 25kHz, 30kHz, 50kHz or 100kHz steps available)

■ Sensitivity

| | USB/LSB/CW/RTTY | AM | FM | WFM |
|-------------------|----------------------------|---------------------------|--------------------------|-----------------------|
| 0.1-0.499999 MHz | 14dB μ (5 μ V) | 24dB μ (15.8 μ V) | — | — |
| 0.5-1.599999 MHz | 6dB μ (2 μ V) | 16dB μ (6.3 μ V) | — | — |
| 1.6-23.999999 MHz | -10dB μ (0.32 μ V) | 6dB μ (2 μ V) | -6dB μ (0.5 μ V) | — |
| 38-1699 MHz | — | 10dB μ (3.2 μ V) | -2dB μ (0.8 μ V) | 6dB μ (2 μ V) |
| 1249-1399 MHz | — | 10dB μ (3.2 μ V) | -2dB μ (0.8 μ V) | — |

Bandwidth(USB/LSB/CW/RTTY/AM) 2.4kHz

S/N: 10dB Modulation (AM): 400Hz, 30% (at AM measurement)

12dB SINAD (FM/WFM)

*Rtted with option board for 30MHz or more.

■ Selectivity

| | Bandwidth | 6dB | 99dB |
|--------|-----------|----------------|--------------|
| WIDE | 4.5kHz | 4.5kHz or more | 8kHz or less |
| INTER | 2.4kHz | 2.4kHz or more | 5kHz or less |
| NARROW | 1kHz | 1.0kHz or more | 4kHz or less |
| FM | 10kHz | 10kHz or more | — |

Left bandwidths in WIDE, INTER, and NARROW are examples, but variable between 0.01 to 9.99kHz (except for AMS, FM and WFM).

Frequency memory: 1000 channels
(Frequency, mode, bandwidth, ATT, AGC, and tuning step)

Receiving system: Triple superheterodyne
1st IF 70.455MHz
2nd IF 455kHz
3rd IF 20.22kHz

Dynamic range: 106dB (300Hz IF bandwidth)

Image rejection: 70dB or more

Spurious response: 60dB or more

IF rejection: 70dB or more

PBS variable range: ± 2.3 kHz (in 50Hz steps)

Notch filter attenuation: 40dB or more
Notch variable range ± 2.5 kHz (in 10Hz steps)
Notch tracking range ± 10 kHz

Antenna impedance: 50 ohms (Lo-Z terminal)
600 ohms (Hi-Z terminal)

Antenna input attenuator: Approx. 20dB

AGC characteristics: The AF output varies 10dB or less for the antenna input of 3 μ V to 100mV
Release time: 40msec. to 5.1sec. (20msec. steps)

AF output:
Speaker: 1W or more (4 ohm load and 10% distortion)
Line/recorder: 1mW or more (600 ohm load, 10% distortion)

RS-232C interface: 4800 baud (Character format: 1start bit, 8 data bits, non-parity, 1 stop bit)

Power supply: 100/120/220/240 VAC $\pm 10\%$, 40VA or less
12 to 16 VDC (13.8VDC standard), 30W or less

Dimensions: 330W x 130(143)H x 285(327)Dmm
() max. dimensions with projections

Weight: Approx. 7.5kg