



Specifications

HF/VHF Transceiver PT-8000A

| RX Double Super Heterodyne 1st IF 40.7 MHz and 2nd IF 10.7 MHz | | | | | |
|---|---|-----------------------|------------------------|------------------------|--------------------|
| RX-Range MAIN/SUB | 9 kHz ... 30 MHz / 50 ... 54 MHz / 69.9 ... 70.5 MHz / 144 ... 148 MHz / 110 ... 143.99 MHz | | | | |
| Xtal-Filter 1st and 2nd IF (BW) | 40.7 MHz (BW 50 kHz) MAIN 10.702 / SUB 10.698 MHz (BW 0.5 ... 6 kHz / 15 kHz) | | | | |
| Sensitivity @ 10 dB S+N/N | AM | FM | SSB | CW | |
| 100 kHz ... 1.8 MHz | 6 kHz / 2 μ V | 12 kHz / 0.5 μ V | 2.4 kHz / 1 μ V | 0.5 kHz / 0.5 μ V | |
| 1.8 ... 30 MHz | 6 kHz / 1.2 μ V | 12 kHz / 0.25 μ V | 2.4 kHz / 0.3 μ V | 0.5 kHz / 0.15 μ V | |
| 50 ... 54 MHz | 6 kHz / 1.0 μ V | 12 kHz / 0.22 μ V | 2.4 kHz / 0.22 μ V | 0.5 kHz / 0.18 μ V | |
| 69.9 ... 70.5 MHz | 6 kHz / 1.0 μ V | 12 kHz / 0.22 μ V | 2.4 kHz / 0.22 μ V | 0.5 kHz / 0.15 μ V | |
| 144 ... 148 MHz | 6 kHz / 1.0 μ V | 12 kHz / 0.22 μ V | 2.4 kHz / 0.22 μ V | 0.5 kHz / 0.15 μ V | |
| 110 ... 143,99 MHz | 6 kHz / 1.5 μ V | 12 kHz / 0.25 μ V | 2.4 kHz / 0.3 μ V | 0.5 kHz / 0.18 μ V | |
| IP ₃ @ 20 kHz | 1.8 ... 54 MHz +39 dBm / IP ₂ +70 dBm | | | | |
| Image Rejection and Spurious Signal Suppression | 1.8 ... 30 MHz | 50 ... 54 MHz | 69.9... 70.5 MHz | 144 ... 148 MHz | 110 ... 143.99 MHz |
| | > 80 dB | > 70 dB | > 70 dB | > 80 dB | > 70 dB |
| Digital Signal Processing (DSP) | variable bandwidth for 2nd IF 10.7 MHz Xtal filters , multiple automatic audio notch filtering almost undistorted audio when engaging automatic noise reduction through enhanced algorithms | | | | |
| AF-Output | 4.8 Watt (2 x 2.4 Watt MAIN / SUB) , additional speaker in HN-8000 | | | | |
| TX All-Mode | | | | | |
| Range | 1.8 ... 30 MHz / 50 ... 54 MHz / 69.9 ... 70.5 MHz / 144 ... 148 MHz (160, 80, 60, 40, 30, 20, 17, 15, 12, 10, 6, 4, 2 m-Band) | | | | |
| Mode | AM / AME / FM | SSB/CW | IMD3 (dBc) | IMD3 (Class A) | |
| PA Output | 50 Watt | 200 Watt | -41 dB | 2.5 Watt / -50 dB | |
| Carrier Suppression | SSB \geq 70 dB / PEP | | | | |
| Opposite Sideband Suppression | SSB \geq 70 dB / @1 kHz | | | | |
| FM Frequency deviation | \pm 3 kHz FMN , repeater operations with variable shift 0 ... 2 MHz | | | | |
| General | | | | | |
| Memory Channels | organized in 3 banks @ 99 channels; automatic scanning mode | | | | |
| Frequency Stability | 0.05 ppm from 10°C to 50°C , Reference Clock adjustable \pm 1.5 ppm , 10 MHz oven , int/ext , in/out | | | | |
| Environmental Conditions | Temperatures 10°C to 50°C (50°F ... 120°F); avoid high humidity (operating below dew point) and dusty operating conditions | | | | |
| Antenna Connectors | N-type: 2 x HF 50 Ohm , 1 x VHF 50 Ohm , BNC-type: 1 x HF RX 50 Ohm | | | | |
| Dimensions (W x H x D) | approximately 425 mm x 175 mm x 465 mm | | | | |
| Weight | approximately 28 kg (62 lbs) | | | | |
| HN-8000 Switching Power Supply for PT-8000 | | | | | |
| Power Requirement | 90 ... 260 VAC Power Factor Correction (PFC) 117 VAC / 8 Amp.; 240 VAC / 4 Amp. | | | | |
| Output | DC 13.8 V / 8 Amp. ; 50 V / 14 Amp. | | | | |
| Dimensions (W x H x D) | approximately 225 mm x 175 mm x 440 mm | | | | |
| Weight | approximately 10 kg (22 lbs) | | | | |
| Accessories | | | | | |
| All Versions | Cable set (AC, DC, Ground, Speaker) | | | | |
| Ham Version | - Desk Microphone T9 600 Ohm @ 1kHz , dynamic , RFI-proof , kidney-shaped acoustic response - set of plugs | | | | |
| Specification Professional Version | | | | | |
| | TX-range according to customers specification , extended temperature range , UL-listed and more. For additional information and special requirements please contact Hilberling GmbH | | | | |