



SILPHASE
We are ahead of future

SILPHASE R1

The Innovative HF Receiver with High Performance Real-Time Spectrum Scope



Touch screen display with real time spectrum scope and waterfall
The large 5" color TFT LCD touch screen display



Ham radio hardware log with USB port for saving audio and data
Record audio, ham radio hardware log and firmware update



Dual Channel Receiver (Dual VFO)
For listening to DX stations on a different band or mode



Supreme sound
Four speakers with supreme quality of sound for full sound spectrum



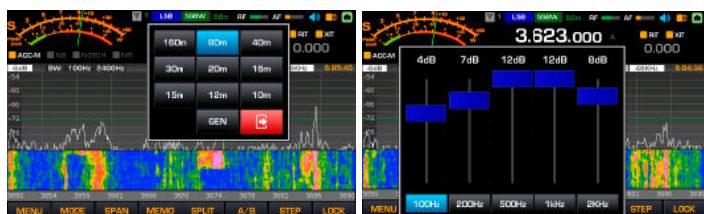
Newly designed body is made of metal alloy
Magnesium body-chassis is specially designed for extreme and long uses

GENERAL INFORMATION

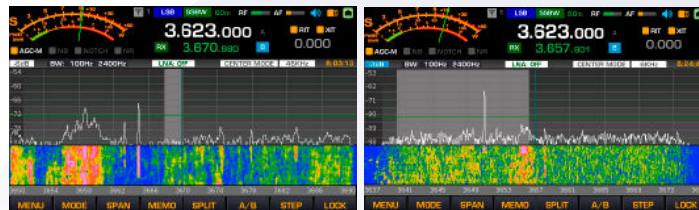
- Frequency coverage RX 0.1–30MHz
- Frequency resolution 1Hz
- Dial step 1Hz to 1KHz
- Dual VFO
- Direct sampling 16bit high speed 122 M/s ADC
- Mode CW, SSB, AM, FM
- Sensitivity 1.8–29.999MHz, SSB/CW: (BW: 2.4kHz at 10dB S/N) – 132 dBm, 0.06µV



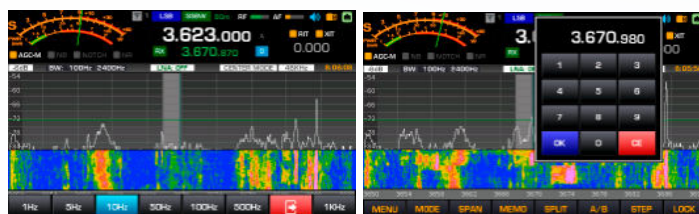
- AGC (slow, medium, fast)
- Main filter sharpness Factor 1.05 and lower
- Audio recorder (use the internal flash memory or USB 16GB external flash memory)
- Virtual USB audio card for OS update
- Ham radio hardware log
- OS QNX (real time operating system)



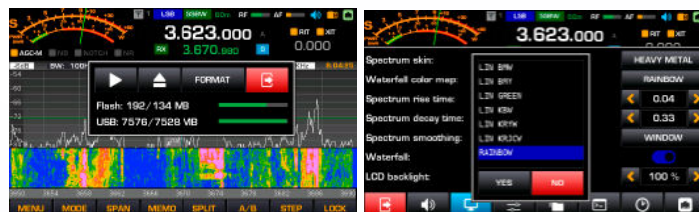
- Power supply requirement 12.6 DC ±15%
- Power consumption RX 0.6 A typical
- Battery 12000 mAh, 12.6V (3x3.7V/ 12000 mAh)
- Operating time 20 Hours
- Operating temperature range –10°C to +60°C; 14°F to 140°F
- Frequency stability Less than ±0.2ppm (–10°C to +60°C; 14°F to 140°F)



- 20dB LNA
- Spurious and image rejection >90 dBm
- Clipping level –3dBm
- Number of channels 1000
- Display touch screen TFT LCD 5" 800x480
- DSP (various filters, adaptive noise reduction, automatic notch filter, notch blanker, adjustable filters (0–1KHz HPF, 0.5–6KHz LPF, 50Hz step) and etc.)



- Tuning time 9 sec (cold start)
- Telescopic antenna with F connector
- Main optical encoder and four multifunctional encoders
- 6 input modes buttons (attenuators, adjustable filters, AGC, NB, auto notch filter, NR)
- F1–F8 multifunctional buttons
- 12 numerical buttons (band selector, mode selector)



- Dimensions (WxHxD) 285x110x55mm; 11.25x4.3x2.2in
- Weight (approximately) 1.8kg; 4lb
- Magnesium alloy body, IP55 (in future IP 67)
- "Expected Operational Lifetime 30 Years"
With One Year Warranty – Additional Warranty Available and Upgrade
- Delivery set: Kit receiver, AC/DC charger, user guide and warranty ticket
- Made in EU

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