

"Each One Built As If It Were The Only One"



Signal One

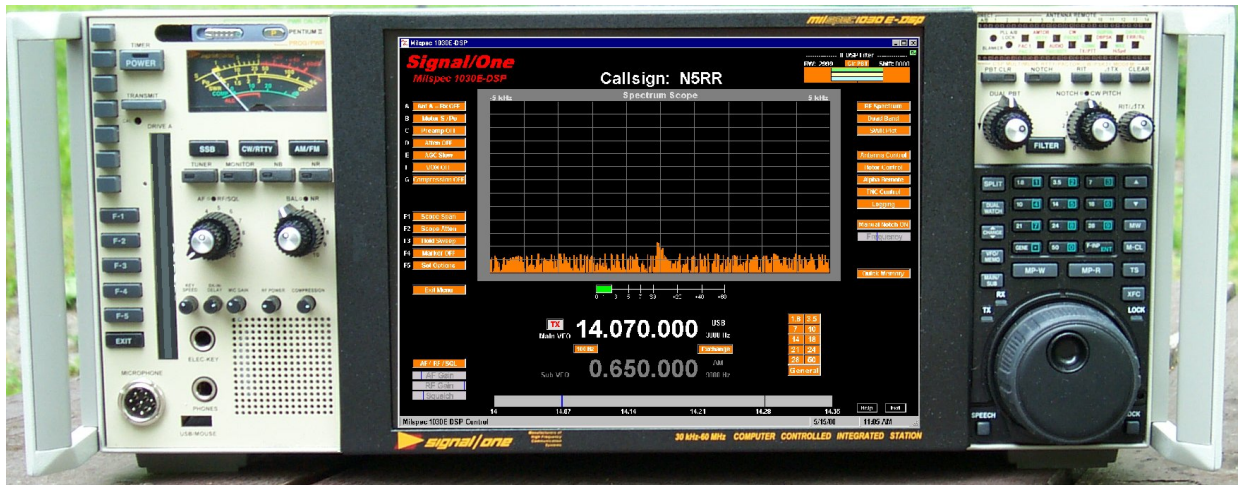
Scottsdale, Arizona

You are visitor:

[EMAIL To Signal One](#)

Call Don Roehrs direct for additional details, (480) 585-4025

Milspec 1030E-DSP



For better detail, save the above picture to your computer and look at it with a PAINT type program.

Features

Military Version – includes IC756-PRO DSP-IF System – Built expressly for the professional Amateur/ Contester / DX'er or Military user.

Price -- \$14,500 base unit, (CDROM, PTC Ile TNC, and Remote Operation Software are optional)

- **New Scope receiver/display, provides both wider and narrower band activity displays, larger screen, and faster display updating, when compared to IC-756PRO**
- **Enhanced Receiver -- Higher 3rd order intercept + 21 dBm IP3 @ 10 kHz offset, compared to IC-756PRO**
- **Internal 500 watt 12V switching power supply built by Lambda with a 5 year warrentee**
- **Unit runs on both AC and 12 - 15 V DC for mobile/portable applications**
- **10.4 inch Sony Ultra-bright TFT Display**
- **Integrated Sony Intel Pentium II System (333MHz) with Full-size USB keyboard**
- **256 KB Cache, 6.4 GB hard drive , 64 MB RAM ,1.2 MB Floppy, CD ROM (optional)**
- **Yamaha YMF744B Sound, 56K Flex, and V.90 Modem Internal**
- **USB connectors on front and rear of unit, remote display connector on back**

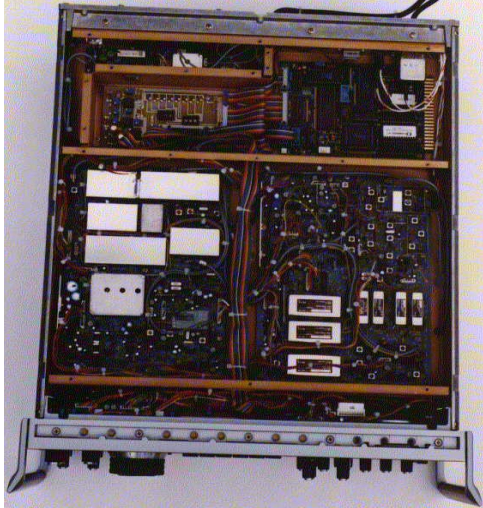
- *Microsoft Windows 98, Runs Windows 98 compatible program, use as station computer*
- *Integrated TNC (PTC IIe) (Optional)*
- *Data modes include: RTTY, PSK31, CW, FAX, PACTOR, etc. (see PTC IIe specifications)*
- *Digipan integrated into operation for PSK31 without the optional TNC*
- *True Remote Capability, Widest range of capabilities on the market implemented via an [Intelligent Instrumentation UDAS digital and analog interface board](#) to more than double the remote commands available to the user..*
- *Use VOICE, keyboard CW, or DATA remotely*
- *Scope and DSP IF Filters even run remote*
- *Designed to use Kachina 505 remote units. -- Remote Software optional*
- *RF Shielded Hewlett-Packard System 2 Cabinet*
- *Full HF band Transmit -- 1.6 to 29.999 MHz plus 50 to 54 MHz RX/TX operation for Amateur, Military, and MARS applications*
- *Expanded CW Capabilities*
- *Keyboard Keyer/Memories/Auto-incrementing CW Reports*
- *Expanded Antenna Control - front panel selected*
- *Switch up to 15 antennas or phase configurations, use as an antenna phasing switch controller*
- *Easier Memory Operation, Quick changes via mouse, Expanded Local Control Operations*
- *Additional standard PC COM and USB ports (control amplifier, auxiliary data equipment, antennas, rotators, etc.)*
- *Ethernet Adapter standard*
- *Capability to connect to other radios or computer networks for single database or multi-radio configurations via Ethernet or USB*
- *Alpha 87A will work seamlessly with the Milspec 1030E-DSP, software pre-loaded*

Copyright (c) 2001, Signal One - design patent pending

*Signal One Corporation won the US Marine Corps contract to re-design the ICOM-781, to: improve its RX/TX performance, meet military specifications, and add **new features**. This developmental work resulted in the **MILSPEC 1030 CI**, the world's most advanced HF Transceiver... The Milspec 1030 CI is the **first integrated station** with built-in CRT Display, TNC, multiple embedded micro- controller / Computers, Spectrum Scope, Direct Digital Synthesizer(DDS), Collins Mechanical Filters, and 200 Watt TX Output Power. **Affordable!** ... Upon receipt of your IC-781, we will ship you **one NEW Signal One Milspec 1030 CI @ \$4,950** (see [Pricing](#) below).*

MILSPEC 1030CI - HF Transceiver [detailed technical specifications](#)

ICOM 781 Owners ... Your IC-781 can be upgraded to MILSPEC 1030 CI spec's, as delivered to the US Marine Corps.



- 100kHz-30MHz (10Hz steps).
- Built-in HF Modem / RS-232C interface.
- Win95/98/NT, Complete RX/TX computer control.
- Packet/CW/SSB/RTTY/AM/FM/ modes.
- Real-time SWR/ANT performance analysis.
- Ultra low phase noise synthesizer -128dBc/Hz.
- +23dBm 3rd order intercept-Dual Receiver.
- Multi-Functional CRT/Spectrum display.
- **Motorola** power amplifier, 200watt RF output.
- **Hewlett Packard** system II RF enclosure.
- **Signal One** precision aluminum alloy chassis.

NEW!

- **Collins Mechanical SSB Filters** 2.1kHz, cascaded, @455kHz, deliver 24 pole, 1.4:1, performance, (6/60dB), selectivity, add up to the most powerful anti-QRM system available!

Windows 95/98/NT 32-bit Support Software

- 1030CI_Control - Full featured transceiver control program
- SWR_Plot - Automatic, real-time, antenna evaluation software utility
- Band_Scan - Spectrum Analysis type program, scans between two frequencies
- Dead_Band_Search - Scans, detects, and saves info on near dead band activity
- DX_Info - PacketCluster Monitor, allows interactive control of radio by user and/or spots

MILSPEC 1030 CI – Inside The Ultimate HF Transceiver ...

The first Integrated Station, the Signal One 1030 C, has advanced to an ever higher performance level, with the introduction of the US Marine Corps

specification, the Signal one Milspec 1030 CI ... Used at US Marine Corps bases world-wide during Desert Storm and Desert Shield ...

The Marine Corps contract specification required that the ICOM IC-781 performance be improved... This included re-designing the entire transceiver from chassis up, to build in Signal One Milspec Quality into every feature... With special emphasis on improving the receiver selectivity, synthesizer phase noise and strong signal handling performance ... a built-in TNC and embedded RS-232 Micro-controller / Computers plus extensive supporting software for full transceiver and TNC control via software running under the Windows 95 operating system.

Our first task was to improve the visual continuity, form, fit , and function ... and at the same time to select the ultimate RF enclosure ... the only choice ... the instrument grade Hewlett Packard System II.

This choice provided the benefit of compliance with EIA and IEC standards in width, height, along with a contemporary design, an attractive color and to incorporate the Signal One military grade precision chassis, for the assurance of a life time in performance, serviceability, quality and durability ... an investment value unequalled!

Our second task was to identify Receiver and Transmitter improvements with specific emphasis in designing the ultimate in RF communications performance in strong signal environments, i.e., contest and military stations.

NEW Features of the Milspec 1030 CI ...

- **2 Collins Mechanical Filters, 2.1 kHz, cascaded at 455 kHz and crystal filtering @ 9.0115 MHz, deliver 24 pole "Textbook" filter performance, 100dB stop band rejection and 1.4:1 shape factor. This Drop in PCB Filter assembly with GaAs FET gain equalization amplifiers and solid state switching with Gold SMC RF connectors / Ribbon cable, is also available for separate purchase, to upgrade unmodified IC-781's, field installable.**
- **Improved receiver IMD performance, using Hewlett Packard 5082-3081 pin diodes for RF switching and the front end attenuator, +23dBm 3rd order intercept @ 10kHz offset from carrier.**
- **New S-Meter detector circuitry for calibrated readings at the rated receiver sensitivity, S1=1uV., S9=50 uV., 6dB/S unit. If a .25uV. signal is copied, your S meter will detect it.**
- **Hewlett Packard RF shielding in critical areas.**
- **Motorola 200 Watt output RF power amplifier, HFE matched MRF-422MP power transistors, will deliver full**



- ***This NEW Selectivity performance standard, provides true narrow filtering when switching from "Wide to Narrow" SSB Bandwidth, for the ultimate in "close in" Receiver performance.***
- ***Internal 10oz. Speaker built-in to front panel.***
- ***Ultra Low Phase Noise synthesizers using ISV-229 varactor diodes, -128dBc/Hz performance.***

rated power into any load <1.5:1, 100% duty cycle. Triple thermostatically controlled forced air cooling using rotary line flow and Rotron Wisper Fans. Especially suited for driving multi-kilowatt military amplifiers.

- ***Front Panel LED Status Indicators, for receiver noise blanker threshold gating, computer and TNC control, Mark/Space LED Bargraph. Auto / manual remote antenna coax switch control, antennas are automatically selected as your 1030 changes bands, programmable or via front panel push buttons/LED readout. Never again lose a "rare one" while changing bands or antennas. Up to 8 coaxial Relays controlled, easy to field program each band.***

SERVICES:

CX7A, CX11A, MS1030C, and IC781 Parts and Service

Service and/or upgrades are offered for earlier Signal One products and for the ICOM 781 transceiver. CALL for information on availability of specific parts or service.

SOFTWARE:

1030CI_Control

Software implements functions that allow control of all major transmitter and receiver capabilities of the 1030CI. Real-time updated screen show 1030CI

outline with point and click to change specific parameters, enter discrete frequencies or memories. Discrete functions include:

- *Control of critical items by pointing to graphical picture or radio*
- *Real-time frequency readout*
- *Single Click changes bands or selects WWV or CHU Time/frequency signals*
- *Read/Set Frequency For Both VFOs*
- *Store/Recall Frequency Memory*
- *Read Signal Strength/Forward Power/Reflected Power/SWR*
- *Read/Set Antenna Switch*
- *Single Click Sets Mode*
- *Start/Stop Scanning*
- *Read/Set Clock*
- *Change Bandwidth Filters*
- *Set/Clear CW Keyline*
- *Read Aux. A-D Converters*
- *Scan A-D readings*
- *Read Aux. TTL inputs*
- *Read Peak or Average Value of last (n) S-Meter readings*
- *Audio On/Off*
- *Set/Reset Tx/Rx mode*

SWR_Plot

Software implements a Real-time antenna analysis function. SWR is shown graphically, after user enters a start and an end frequency or selects a pre-programmed frequency band. Update time varies, based on the frequency increment size and total frequency sweep width, but is typically a few seconds.

- *Generates Plots of SWR of selected Antenna*
- *User Selectable Bands, Modes, and Steps*
- *Overlaid Plots*
- *Print Graphic Plots of Windows95 Printer*

Band_Scan

Software expands 1030CI's CRT readout to any frequency range supported by the unit. Display can be reset after each scan, or left to sum multiple scans.

- *Generates Plots of Band Activity*
- *User Selectable Bands, Modes, Steps, and Filters*
- *Overlaid Plots*
- *Print Graphic Plots on Windows95/98/NT Printer*

Dead_Band_Search

Software can be set to monitor for signal activity on any user specified bandwidth. The program will look for signals and mark any found that are above a user specified signal level and after a user programmed time, continue the search. Particulars on each found signal are stored and can be

individually recalled, which commands the 1030CI to go to that frequency, turn audio on and allow user control to finely search or tune the signal.

- *User Selectable Bands, Modes, Steps, and Filters*
- *Continuous search*
- *Point and left mouse click to go to a signal found*
- *Point and right mouse click to read frequency of signal from plot*
- *Automatic setting of filter for frequency where signal is found*
- *Print Graphic Plots of Windows95 Printer*

DX_Info

The 1030CI includes a full-featured TNC for data communications. The DX_Info program allows for monitoring a VHF or HF packet frequency/PacketCluster station to pick-off DX spots. Upon reception of a DX spot, a double click sends the 1030CI to the spotted frequency and mode (based on frequency). Spots can also be sent to the PacketCluster from the program by selecting SPOT and entering the callsign of the station. A continuous log of received spots is maintained, with search capability. Other PacketCluster functions are easily entered from the program as a pre-programmed command or user entered.

- *Currently supports VHF and HF Packet Modes, RTTY, CW, PACTOR, AMTOR, GTOR, and ASCII modes.*
- *Log to Disk File*
- *Automatically Changes mode and bandwidth filters*
- *Automatically Changes Antenna, based on frequency range*
- *Dual Time Zone Displays*

Note: All software programs described above only work with the Milspec 1030CI. Latest versions and updates will always be available via the Internet.

Pricing:

All New

- **Milspec 1030CI (FCC Type Acceptance DBE7GU 1030 Military, Marine-shipboard approved.**
- **\$9,980.00 includes all options**
- **\$8,490.00 with filters/noRS232 or TNC**

ICOM 781 Upgrades

- **New Milspec 1030CI (requires your ICOM 781) (Includes Collins Mechanical Filter System)**
- **\$4,950.00***

- **Computer Option (includes software)***
- **\$1185.00**
- **TNC Option (includes software)**
- **\$650.00**

- **Complete Unit with above options**
- **\$6,685.00**

ICOM 781 Mod

- Collins Mechanical Filter System (SSB) mod only for the ICOM 781, field installable. (price increase due to increase in cost of filters from Collins).
- \$720.00

Add shipping to all orders.

Owner Satisfaction:

- *Unmatched operating/performance features.*
- *Three year Signal One limited warranty* with full parts and labor coverage.*
- *Excellent Signal One factory direct service.*

** copy of warranty available on request*

Links:

-- No antenna? -- Work the world with the B&B Cyber Software DX simulator, CyberDX-CW. A software simulation of the DXer's world.. Also CyberCWContest, a software simulation of the CQWW CW contest. Awards programs for users of both simulations.

B&B Cyber Software custom programming, web page design and hosting, Have your own web site like this one. Web sites developed and maintained, very reasonable.

ARRL Homepage

QRZ Callsign Database

WebCluster (World-Wide PacketCluster)

Bradley-Beggs Stables Lafayette, Colorado

Radiodan Henry Radio RF Power Amplifiers for LESS! New, used, unusual, classic radios, accys & RF POWER!

SHOPPING DEALS:

Have a website? Learn how to make money with LinkShare.

Tons Of Software Free! Just Pay Shipping!

Save 10% on your purchases at batteries.com!!!

AllBooks4Less.com

Supervalues at Office Depot

Virus-Protection, PC Maintenance, and more!

Back-to-School OfficeMax.com

Best Experienced With



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