

WORLD'S **GPS** RECEIVER HANDBOOK
世界 GPS 接收机手册

1994/1995

China Aviation Industry Press

航空工业出版社

P O S I T I O N I N G

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SERCEL DIFFERENTIAL...A SOLID PLATFORM

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THE POLE POSITION

《世界 GPS 接收机手册》 WORLD'S GPS RECEIVER HANDBOOK

1994/1995 版
《世界 GPS 接收机手册》编辑部

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内 容 提 要

本书收录了全世界 70 多家公司的 330 多个型号的 GPS 接收机及其相关设备(如天线)的主要性能数据及参考价格和保证期等,并配有黑白照片 49 幅,同时收录各个公司的地址,是一本内容丰富的 GPS 接收机参考手册,对国内 GPS 接收机用户、经销商和从事 GPS 技术研究和应用开发的有关科研单位以及大专院校有关专业师生均有一定参考价值。

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GPS是目前世界上迅速发展的高新
技术,在航空、航海、测绘、军事、陆
地交通等方面具有非常广泛的应用前
景。《世界GPS接收机手册》的出版,在
推广这一高新技术方面,将会起到积
极作用。

谢子毅

一九九四年十月十八日

中国航空学会常务理事、秘书长
北京航空航天大学教授 谢础

GPS is at present, a rapidly developping high — technology in the world. It has a good application prospect in various fields including aviation, marine, survey, municipal traffic control ect. . The publish of "WORLD'S GPS RECEIVER HANDBOOK" will play a positive role in pomoting the civil applications of the new technology in various fields of China.

Secretary General and Standing members of the Council of China INSTI-
TUTE OF AVIATION

Professor of Beijing University of Aeronautics and Astronautics;

Xie Chu

1994. 10. 18

资料详实, 数据准确, 对从事GPS
用户设备研制及应用研究有重要意义.

丁子明

1994年10月11日

北京航空航天大学电子工程系教授
中国电子学会导航分会付主任委员

丁子明

This is an informative and valuable reference book, which is of great importance to applications of GPS and equipment development in China.

**Vice Chief director of China Institute of Navigation (CIN)
Professor of Electronics Engineering Department of Beijing
University of Aeronautics and Astronautics ;**

Ding Ziming

1994. 10. 11

前言

GPS 系统是由美国国防部出资 100 亿美元开发的一种最新无线电导航系统,该系统具有高精度、全天候、全球覆盖能力,将于本世纪末取代所有的其它无线电导航系统。现在 GPS 系统的全部 24 颗卫星已布署完毕,整个系统已投入运行,且美国政府已应允, GPS 系统将在相当长的一段时间内免费供全世界用户使用,因此, GPS 目前不仅在美国及其盟国,几乎全世界的各个角落,凡是需要知道位置信息的应用场合,都被 GPS 的高精度、全天候、全球覆盖、方便灵活和优质价廉所吸引。

正如人们所说:“GPS 的应用,仅受人们的想象力制约”。GPS 自问世以来,已充分显示了其在无线电导航领域的霸主地位。美国及其盟国的军方依靠小小的 GPS 接收机在海湾战争中以极小的代价、极短的时间赢得了巨大的胜利,许多民用领域也由于 GPS 的出现而产生革命性变化;美国已于 1994 年 7 月宣布放弃它已投巨资研制并准备于 1998 年取代现有仪表着陆系统(ILS)的微波着陆系统(MLS),取而代之的是差分 GPS(DGPS);

我国的 GPS 应用发展势头迅猛,短短几年, GPS 在我国的应用已从少数科研单位和军用部门迅速扩展到包括航空导航、航海导航、大地测量、遥感、石油勘探、越野救生、登山、森林防火、飞机播种等各个领域,现在正在向城市交通管理、机场管理、港口管理等领域扩展,可以说, GPS 在我国的应用前景是无限的,市场是巨大的,竞争也是激烈的;在这几年中, GPS 销售也从一支独秀,发展现在的诸侯割据局面,出现了众多的 GPS 接收机、天线、OEM 板等设备的国外公司的代理机构,如法国的 Sercei、新信公司、Leica 公司等等。为适应这一发展形势,满足广大接收机用户、销售商、和国内科研单位的需要,我们依据最新数据编辑这本《世界 GPS 接收机手册》,使广大用户在眼花缭乱的各種接收机面前能有所依据进行判断。通过对 GPS 性能参数、价格和保证期等项目进行比较,使用户能选择出一种既满足使用要求,价格又适中,又有较长保证期的 GPS 接收机型号。对于有意代理国外 GPS 接收机厂商在中国销售 GPS 接收机的公司,本书也能有助于充分了解国外 GPS 接收机的型号及其生产商,在当前国内 GPS 接收机市场竞争激烈的情况下,有助于制定有效的营销策略。本书对国内各科研单位也有一定的参考价值。

受篇幅所限,每种接收机只能收录其最基本的性能数据,足以对此型号接收机有一个大致了解。若需详细资料,请与我们联系索取。

为使广大用户及时了解最新信息,我们将在 1995/1996 版中增补最新信息(包括接收机数据、GPS 应用和美国关于 GPS 的最新政策),并增加更多的图片。如果您购买了 1994/1995 版,届时请与我们联系,您将以优惠价以旧换新。

本书在编辑过程中,得到了许伟武研究员和许国祯高工的许多帮助和大力支持。北京航空航天大学电子工程系教授、中国电子学会导航分会付主任委员丁子明老师对我们的工作给予了具体指导。中国导航学会常务理事、秘书长谢础老师也给予了大力支持,在此表示衷心感谢!

编者

1994.10

FOREWARD

Global Positioning System is the most advanced radio navigation system which was developed by DOD of the U. S. with the cost of 10 billion USD. All of the other radio navigation systems will be replaced by GPS by the year of 2000. Now, GPS have been used in many field (such as navigation, survey, positioning, rescue and emergency service, aircraft approach and landing, missile guidance, air traffic control(ATC)/Air Traffic Mangement(ATM), ground traffic monitoring and control ect.) in almost every coner of the world.

China is also benefiting from the using of GPS system. Now GPS have been used by China Civil Aviation, vessels, forest firefighting units, surveying, municipal traffic monitoring and control, mapping, ect. Many manufactories of GPS receiver, OEM board, and relevant equipments have come into China, such as Ashtech, Sercel, Leica, North Telecom, Garmin, Trimble ect. And there are about 180 companies which manufacture GPS receivers and relevant equipments in the world. The purchasers of GPS receiver have to face to about 350 kinds of GPS receiver models. So, which one is the best in price, performance, waranty time and servie after selling? The "WORLD'S GPS RECEIVER HADNBOOK" is published only for this reason.

This HANDBOOK was compiled by GPS specialists of China Aero—Information Center. More than 70 companies' 350+ models of GPS receivers have been collected in the HANDBOOK. The purchasers of GPS receiver can compare them with each other, so, they can make a right decision.

We hope the "WORLD'S GPS RECEIVER HANDBOOK" can be the "BRIDGE" between the GPS manufacturers and the users of GPS receiver.

The "WORLD'S GPS HANDBOOK" will be published annually.

EDITOR

1994.10

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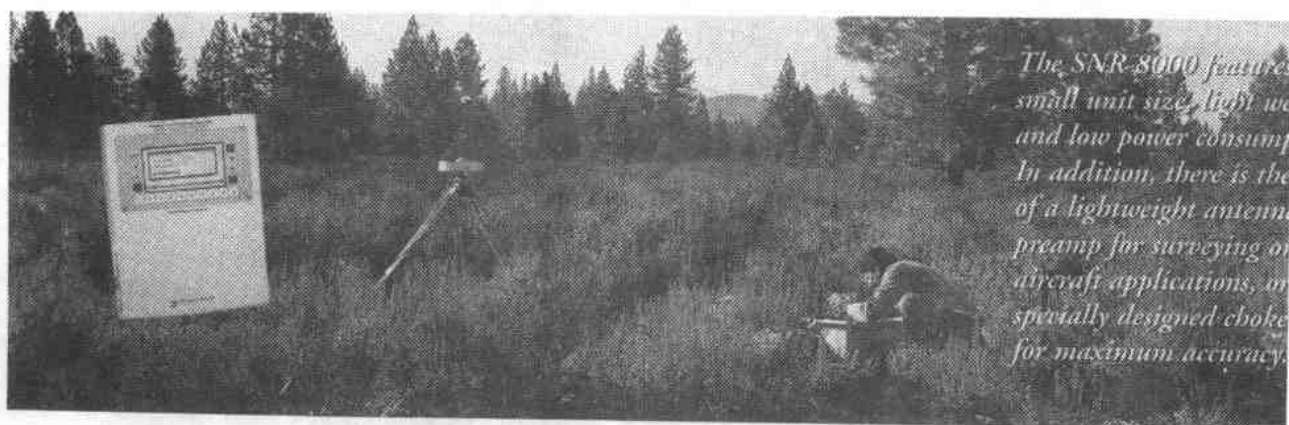
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North American Datum of 1983/1990/256p/25. 00USD
RLS Manager Control Base(software)495. 00USD
Satellite Geodesy—Foundation, Methods and Applicaitons/1993/531p/89. 95USD
Spade 4. 2(software)100. 00USD

如果需如上述书,请与中国航空信息中心 GPS 信息服务部联系。

Allen Osborne Associates
 756 Lakefield Rd. , Bldg. J
 Westlake Village, CA 91361-2624
 (805)495-8420
 fax: (805)373-6067



The SNR-8000 features small unit size, light weight and low power consumption. In addition, there is the use of a lightweight antenna preamp for surveying or aircraft applications, or a specially designed choke for maximum accuracy.

图一:AOA 公司的测量型 GPS 接收机:SNR-8000

TurboRogue SNR-8000-SM

推出日期: 1993
 通道数/跟踪方式: 8 通道/并行跟踪
 跟踪的信号:
 y-码(加密 P 码);
 L1, C/A-和 P-码; L2, P-码;
 L1, C/A-码; L2, 无码
 被跟踪卫星的最大数量: 8
 使用范围¹: AML *
 应用²: SNVPM *
 尺寸³(宽×高×深,英寸): 9.3×2.5×11.6
 重量(磅): 9.5
 精度⁴: (单独/差分/经过后处理的差分)
 位置(米/SEP): 4/1/0.005
 速度(米/秒): 0.1/无记录/0.003
 时间(纳秒): 100/无记录/2
 更新速率(秒): 0.02
 首次定位时间(分钟): <3
 冷起动: <1.5 分钟
 再捕获: <10 秒

接口(输入/输出):
 部件数: 2/2
 接口类型: RS232/RS232
 波特率: 1200-38,400/
 1200-38,400
 环境因素:
 温度(°C)
 工作温度: -20 至 +55
 存贮温度: -30 至 +75
 湿度(%): 100
 功耗(瓦): 15
 输入电压(伏直流): 9-36
 天线类型: 偶极子天线
 是否提供外部天线: 提供
 是否提供后处理软件: 提供
 保证期(月): 12
 价格(美元): 60,000

TurboRogue SNR-8100-SM

推出日期: 1993

通道数/跟踪方式: 8 通道/并行跟踪

跟踪的信号:

y-码(加密 P 码);

L1, C/A-和 P-码; L2, P-码;

L1, C/A-码; L2, 无码

被跟踪卫星的最大数量: 8

使用范围¹: L

应用²: SNMO *⁷

尺寸³(宽×高×深, 英寸): 19×7×17

重量(磅): 25

精度⁴: (单独/差分/经过后处理的差分)

位置(米/SEP): 4/1/0.005

速度(米/秒): 0.1/无记录/2

时间(纳秒): 100/无记录/2

更新速率(秒): 0.02

首次定位时间(分钟)⁵: <3

冷起动: <1.5

再捕获: <10 秒

接口(输入/输出):

部件数: 2/2

接口类型: RS232C/RS232C

波特率: 1200-38,400/

1200-38,400

环境因素:

温度(°C)

工作温度: -20 至 +50

存储温度: -30 至 +75

湿度⁶(%): 90

功耗(瓦): 15

输入电压(伏直流): 9-36

天线类型: 偶极子天线

是否提供外部天线: 提供

是否提供后处理软件: 提供

保证期(月): 12

价格(美元): 60,000

TurboRogue ICS-4000Z

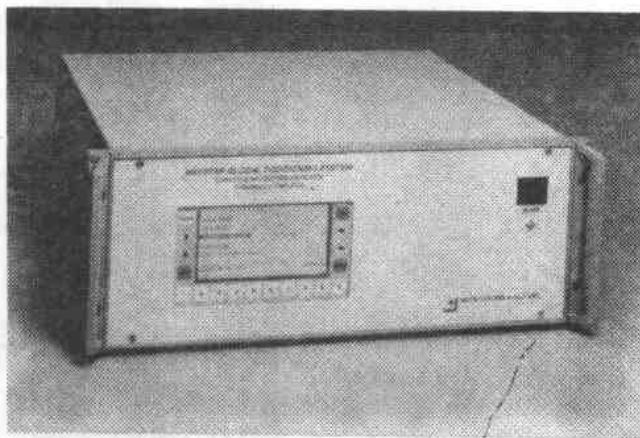


图 2: TurboRogue ICS-4000Z

推出日期: 1993

通道数/跟踪方式: 8 通道/并行跟踪

跟踪的信号:

y-码(加密 P 码);

L1, C/A-和 P-码; L2, P-码;

L1, C/A-码; L2, 无码

被跟踪卫星的最大数量: 8

使用范围¹: L

应用²: O * *

尺寸³(宽×高×深,英寸): 19×7×17

重量(磅): 25

精度⁴: (单独/差分/经过后处理的差分)

位置(米/SEP): 4/1/0.005

速度(米/秒): 0.1/无记录/0.003

时间(纳秒): 100/无记录/2

更新速率(秒): 0.02

首次定位时间(分钟)⁵: <3

冷起动: <1.5 分钟

再捕获: <10 秒

接口(输入/输出):

部件数: 2/2

接口类型: RS232C/RS232C

波特率: 1200—38,400/

1200—38,400

环境因素:

温度(°C)

工作温度: -20 至 +50

存贮温度: -30 至 +75

湿度⁶(%): 90

功耗(瓦): 15

输入电压(伏直流): 9—36

天线类型: 偶极子天线

是否提供外部天线: 提供

是否提供后处理软件: 提供

保证期(月): 12

价格(美元): 41,900

TurboRogue ICS—4000Z—SM

推出日期: 1993

通道数/跟踪方式: 8 通道/并行跟踪

跟踪的信号:

y—码(加密 P 码);

L1, C/A—和 P—码; L2, P—码;

L1, C/A—码; L2, 无码

被跟踪卫星的最大数量: 8

使用范围¹: L

应用²: O * *

尺寸³(宽×高×深,英寸): 19×7×17

重量(磅): 25

精度⁴: (单独/差分/经过后处理的差分)

位置(米/SEP): 4/1/0.005

速度(米/秒): 0.1/无记录/0.003

时间(纳秒): 100/无记录/2

更新速率(秒): 0.02

首次定位时间(分钟)⁵: <3

冷起动: <1.5 分钟

再捕获: <10 秒

接口(输入/输出):

部件数: 2/2

接口类型: RS232C/RS232C

波特率: 1200—38,400/

1200—38,400

环境因素:

温度(°C)

工作温度: -20 至 +50

存贮温度: -30 至 +75

湿度⁶(%): 90

功耗(瓦): 15

输入电压(伏直流): 9—36

天线类型: 偶极子天线

是否提供外部天线: 提供

是否提供后处理软件: 提供

保证期(月): 12

价格(美元): 60,000