

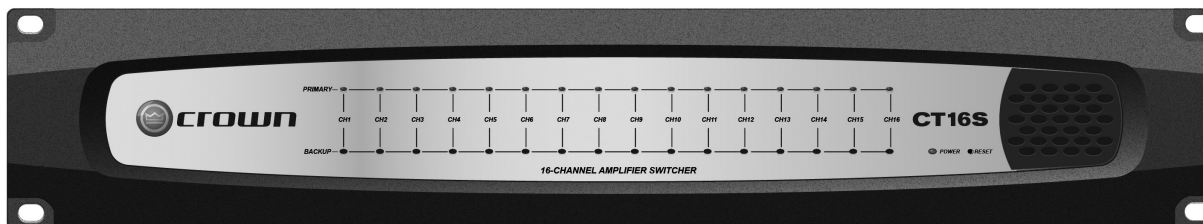


CT16S 16-Channel Amplifier Switcher

CT16S 16通道主备功放切换器

Operation Manual

操作手册



Obtaining Other Language Versions: To obtain information in another language about the use of this product, please contact your local Crown Distributor. If you need assistance locating your local distributor, please contact Crown at 574-294-8000.

This manual does not include all of the details of design, production, or variations of the equipment. Nor does it cover every possible situation which may arise during installation, operation or maintenance.

The information provided in this manual was deemed accurate as of the publication date. However, updates to this information may have occurred. To obtain the latest version of this manual, please visit the Crown website at www.crownaudio.com.

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Some models may be exported under the name Amcron®.

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本手册未提供有关产品设计、生产和变更的所有详细信息，也未列举出在安装、运行或维护本产品时可能出现的所有情况。

本手册里提供的信息在出版时为准确无误。然而，我们仍可能在出版手册后更新相应内容。如果您需要获取本手册的最新版本，请登录Crown的官方网站www.crownaudio.com。

商标声明：本手册中出现的Crown、Crown Audio和Amcron为Crown国际公司的注册商标。其它商标为相应公司的注册商标。

有些型号的产品是以Amcron®的商标出口。

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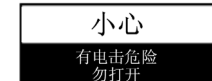
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Important Safety Instructions

1. Read these instructions.
2. Keep these instructions.
3. Heed all warnings.
4. Follow all instructions.
5. Do not use this apparatus near water.
6. Clean only with a dry cloth.
7. Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
8. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
9. Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding-type plug has two blades and a third grounding prong. The wide blade or the third prong is provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
10. Protect the power cord from being walked on or pinched, particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
11. Only use attachments/accessories specified by the manufacturer.
12. Use only with a cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.
13. Unplug this apparatus during lightning storms or when unused for long periods of time.
14. Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.
15. Use the mains plug to disconnect the apparatus from the mains.
16. WARNING: TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPARATUS TO RAIN OR MOISTURE.
17. DO NOT EXPOSE THIS EQUIPMENT TO DRIPPING OR SPLASHING AND ENSURE THAT NO OBJECTS FILLED WITH LIQUIDS, SUCH AS VASES, ARE PLACED ON THE EQUIPMENT.
18. THE MAINS PLUG OF THE POWER SUPPLY CORD SHALL REMAIN READILY OPERABLE.



1. 阅读本手册。
2. 保留本手册。
3. 留意所有的警告。
4. 遵守本手册中的所有操作说明。
5. 不要在近水区域使用本产品。
6. 仅用干布清洁擦拭本产品。
7. 不要阻挡任何通风口，并严格按照制造商提供的操作说明进行安装。
8. 不要靠近任何热源安装，比如散热器、电热器、火炉或者其他产生热量的设备（包括功放）。
9. 不要破坏具有安全功效的极性插头或者接地式插头。极性插头有两个插片，一个宽，一个窄。接地式插头有两个插片和一个接地针，其中宽插片或者接地针是用来保障您的安全的。如果所提供的插头不适合您的插座，请咨询联系电工更换适合的插座。
10. 保护电源线。避免电源线被踩踏或者被捻搓。特别注意保护在插头、便捷插座和电源线接出设备处的电源线。
11. 仅使用制造商指定的附件或选件。
12. 仅使用制造商指定的或者随本产品一同出售的载车、支架、三角架、托架或者工作台。在使用推车运输设备时，特别注意推车及设备，避免其翻倒造成伤害。
13. 在有雷电时或者长时间不使用本设备时，请拔掉插头。
14. 所有维修服务必须由有资格的维修人员提供。当设备受到任何形式的损坏时，比如电源线或者插头被损坏，液体或者异物掉入设备，遭受雨淋或受潮，不能正常工作，以及被摔碰等情况，都需要维修。
15. 警告：为了减小起火或者电击的风险，不要让设备遭受雨淋或者受潮。
16. 不要将设备放置在容易遭受滴漏或者喷洒的地方。例如，不要将装有液体的物品，比如花瓶等放到设备上。



WATCH FOR THESE SYMBOLS:

The lightning bolt triangle is used to alert the user to the risk of electric shock. The exclamation point triangle is used to alert the user to important operating or maintenance instructions.

注意这些符号：

闪电三角形符号用来提示用户电击的危险。感叹号三角形符号用来提示用户重要的操作或者维护说明。



TO PREVENT ELECTRIC SHOCK DO NOT REMOVE TOP OR BOTTOM COVERS. NO USER SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

为了避免电击，请不要拆卸设备。设备内部无用户可自行维护的部件。请向有资格的服务人员咨询。

TO COMPLETELY DISCONNECT THIS EQUIPMENT FROM THE AC MAINS, DISCONNECT THE POWER SUPPLY CORD PLUG FROM THE AC RECEPTACLE. THE MAINS PLUG OF THE POWER SUPPLY CORD SHALL REMAIN READILY OPERABLE.

要完全断开此设备与交流主线的连接，请把电源线插头从交流电插座中拔出。需要连接电源时，可再次将电源线插头插入交流电插座。



FCC COMPLIANCE NOTICE

This device complies with part 15 of the FCC rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

CAUTION: Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

DECLARATION of CONFORMITY

ISSUED BY: Harman International
1718 W. Mishawaka Road
Elkhart, Indiana 46517 U.S.A.

European Representative's Name and Address:

David Budge
10 Harvest Close
Yateley GU46 6YS
United Kingdom

Equipment Type: Amplifiers Switcher

Family Name: CT Series

Model Names: CT16S

EMC Standards:

EN 55103-1:1997 Electromagnetic Compatibility - Product Family Standard for Audio, Video, Audio-Visual and Entertainment Lighting Control Apparatus for Professional Use, Part 1: Emissions

EN 55103-1:1997 Magnetic Field Emissions-Annex A @ 10 cm and 20 cm

EN 55103-2:1997 Electromagnetic Compatibility - Product Family Standard for Audio, Video, Audio-Visual and Entertainment Lighting Control Apparatus for Professional Use, Part 2: Immunity

EN 61000-3-2:2001 Limits for Harmonic Current Emissions (equipment input current less than or equal to 16 A per phase)

EN 61000-3-3:2002 Limitation of Voltage Fluctuations and Flicker in Low-Voltage Supply Systems Rated Current less than or equal to 16A

EN 61000-4-2:2001 Electrostatic Discharge Immunity (Environment E2-Criteria B, 4k V Contact, 8k V Air Discharge)

EN 61000-4-3:2001 Radiated, Radio-Frequency, Electromagnetic Immunity (Environment E2, criteria A)

EN 61000-4-4:2001 Electrical Fast Transient/Burst Immunity (Criteria B)

EN 61000-4-5:2001 Surge Immunity (Criteria B)

EN 61000-4-6:2003 Immunity to Conducted Disturbances Induced by Radio-Frequency Fields (Criteria A)

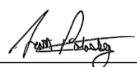
EN 61000-4-11:2001 Voltage Dips, Short Interruptions and Voltage Variation

Safety Standard:

IEC 60065: 2001 7th Ed. Safety Requirements - Audio Video and Similar Electronic Apparatus

I certify that the product identified above conforms to the requirements of the EMC Council Directive 89/336/EEC as amended by 92/31/EEC, and the Low Voltage Directive 73/23/EES as amended by 93/68/EEC.

Signed



Scott Potosky
Title: Director of Engineering

Date of Issue: November 7, 2011

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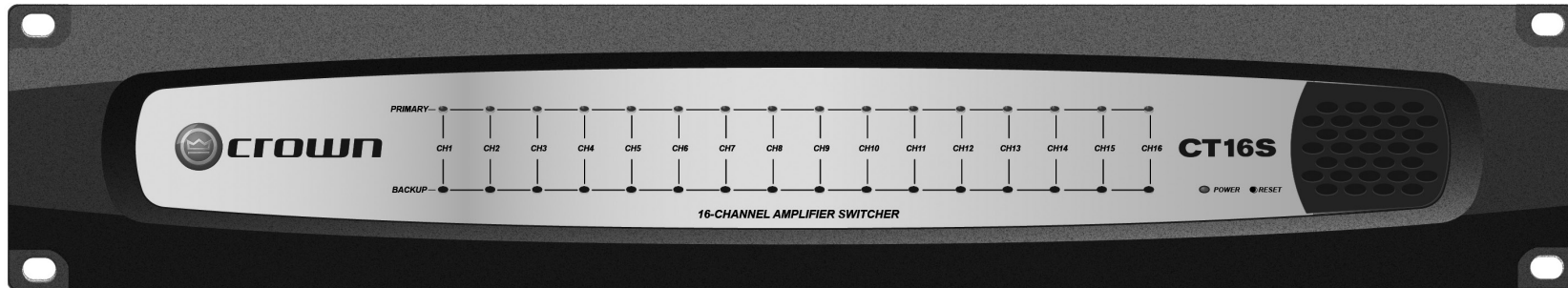
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1 Welcome

The Crown® CT16S Amplifier Switcher gives end users confidence that their public address system is operating as designed. The CT16S has 16 primary amplifier inputs (which connect to the amplifier outputs), 16 backup amplifier inputs (which connects to the amplifier outputs), and 16 speaker outputs. The CT16S can be connected to the Hi-Z output (70V/100V) of amplifier and capable of handling maximum 2A continuous current for each channel.

This switcher can be used to back up channels or amplifiers in a public address system. The management software system is needed to monitor, control, and report all operations that CT16S performs in the system. Configuring the CT16S can only occur with the management software. For details about the software package, please consult your Harman distributor or representative.

A series of programmable GPIO's can be used to connect the CT16S to external control devices. A total of 16 control inputs and 5 control outputs are built into the CT16S to provide enough control inputs for third party use. In addition to the GPIO, an Ethernet connector is provided for additional configuration and control.

Please take the time to study this manual so that you can obtain the best possible service from your amplifier switcher.

1 欢迎

Crown® CT16S主备功放切换器增强了用户对公共广播系统稳定运行的信心。CT16S具有16路主功放输入（连接到功放输出）、16路备用功放输入（连接到备用功放输出）和16路输出（连接到扬声器输入回路）。CT16S每通道能支持Hi-Z（70V/100V）最高2A连续电流。

此主备功放切换器在公共广播系统中用于备份通道或功放。所有CT16S在公共广播系统中的操作需要管理软件监控、控制和记录。只能使用管理软件中配置CT16S。有关软件包的详细信息，请咨询您当地的经销商或销售代表。

您可通过本功放切换器上的可编程控制输入输出接口将CT16S与外部控制设备相连。CT16S设计有16路控制输入和5路控制输出，为第三方提供足够的控制输入。除了控制输入输出接口，CT16S还提供以太网接口，用于其它配置和控制。

请仔细阅读本手册，以获取本产品最佳效能。

1.1 Features

- Monitoring up to 16 amplifier channels in real time for speaker outages and channel/amplifier failures
- 16 primary amplifier inputs, 16 backup amplifier inputs and 16 outputs
- 16 control inputs and 5 control outputs
- Switching a failed primary channel to idle backup channel and switching back to resumed primary channel through the central management system interface
- Two status indicators for each channel: Primary amplifier status indicator and backup amplifier status indicator
- Error and switch operation reported to management software
- Universal power supply

1.2 How to Use This Manual

This manual provides you with the necessary information to safely and correctly setup and operate your amplifier switcher. It does not cover every aspect of installation, setup or operation that might occur under every condition. For additional information, please consult Crown Technical Support, your system installer or retailer.

We strongly recommend you read all instructions, warnings and cautions contained in this manual. Also, for your protection, please send in your warranty registration card today. And save your bill of sale — it's your official proof of purchase.

1.1 特点

- 实时监控多达16路功放通道的扬声器输出和通道/功放异常
- 16路主功放输入、16路备用功放输入和16路输出
- 16路控制输入和5路控制输出
- 可通过中央管理系统界面将故障主功放切换到可用备用功放及切换回恢复正常的主功放
- 每通道两种状态显示灯：主功放状态显示灯和备用功放状态显示灯
- 软件管理错误日志和开关单元操作报告
- 通用开关电源

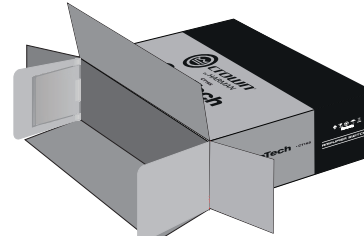
1.2 如何使用本手册

本手册为您安全而正确地安装和使用主备功放切换器提供必要的信息。但是，它不能涵盖安装、设置或使用该设备时可能出现的所有情况。如果您需了解更多信息，请向Crown的技术支持部门、您的系统安装人员或经销商咨询。

我们强烈建议您仔细阅读本手册中的所有说明、警告和注意事项。另外，出于对您的保护，请在立即递送您的保修注册卡。并且，保留您的购买票据，即您购买本设备的正式凭证。

2 Setup

2 安装



2.1 Unpacking Your Amplifier Switcher

Please unpack and inspect your amplifier switcher for any damage that may have occurred during transit. If damage is found, notify the transportation company immediately. Only you can initiate a claim for shipping damage. Crown will be happy to help as needed. Save the shipping carton as evidence of damage for the shipper's inspection.

We also recommend that you save all packing materials so you will have them if you ever need to transport the unit. **Never ship the unit without the factory pack.**

YOU WILL NEED (not supplied):

- Amplifier Input wiring cables
- Speaker Output wiring cables
- Rack for mounting amplifier switcher (or a stable surface for stacking)



WARNING: Before you start to set up your amplifier, make sure you read and observe the Important Safety Instructions found at the beginning of this manual.

2.1 将您的主备功放切换器拆箱

请将包装箱打开并检查运输过程中设备是否出现损坏。如果发现损坏，请立即通知运输公司。只有您可以对运输损坏提出索赔。Crown 乐于按照所需提供帮助。保留运输硬纸箱，在托运人检查时，作为认定设备受损的证据。

另外，我们建议您保存所有的包装材料，留待将来运输设备时使用。不要在没有工厂包装的情况下运输设备。

您将需要（未提供）：

- 功放输入线缆
- 扬声器输出线缆
- 用于将设备安装到机架的支架（或用于将放置功放的稳固台面）



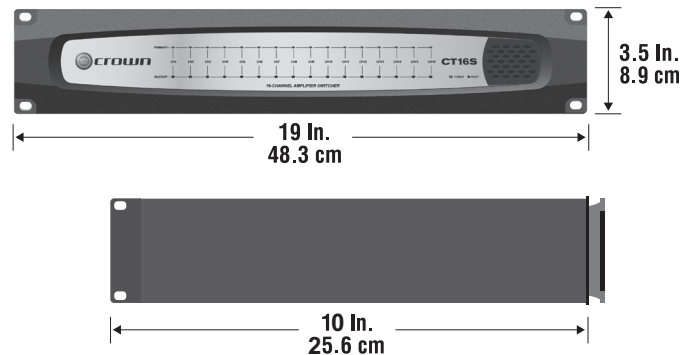
警告：在您开始安装功放之前，请确保您已阅读并遵守本手册开始处列出的重要安全说明。

2 Setup (continued)

2 安装 (接上一页)

Figure 2.1 Dimensions

图2.1 尺寸



2.2 Installing Your Amplifier Switcher



CAUTION: Before you begin, make sure your amplifier switcher is disconnected from the power source.

Use a standard 19-inch (48.3 cm) equipment rack (EIA RS-310B). See Figure 2.1 for amplifier dimensions.

You may also stack them without using a cabinet.

NOTE: When transporting, amplifier switchers should be supported at both front and back.

2.3 Ensure Proper Cooling

When using an equipment rack, mount units directly on top of each other. Close any open spaces in rack with blank panels. DO NOT block front or rear air vents.

2.2 安装您的主备功放切换器



警告：开始安装前，确保您已断开主备功放切换器与电源的连接。

使用一个标准的19 寸（48.3 厘米）设备支架（EIA RS-310B）。具体功放尺寸，请见图2.1。

您也可以直接安放本设备而不使用支架安装到机柜。

注意：在运输时，必须在功放的前面和背面提供支撑保护。

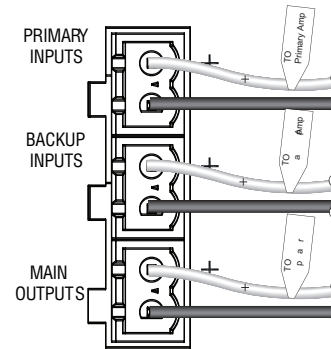
2.3 保证正常散热

在使用设备支架时，直接将设备安装在支架上。使用空面板将所有开放的空间封闭。不要阻挡前面和后面的通风口。

2 Setup (continued)

2 安装 (接上一页)

Figure 2.3 Amp Input and Speaker Output Wiring
图2.3 功放输入和扬声器输出连接



WARNING: Custom wiring should only be performed by qualified personnel. Never use shield cable for output wiring. Do mind the cable polarity and prevent accidental reverse connection.

2.4 Choosing Amplifier Input Wire and Connectors

Crown recommends using pre-built or professionally wired 14-20 AWG wire stripped about 7mm to 10mm.

PRIMARY INPUTS: Use 2-pin Euroblock connector cable ends to connect to the PRIMARY INPUTS connectors, see Figure 2.3.

BACKUP INPUTS: Use 2-pin Euroblock connector cable ends to connect to the BACKUP INPUTS connectors, see Figure 2.3.

2.5 Choosing Speaker Output Wire and Connectors

Crown recommends using pre-built or professionally wired 14-20 AWG wire stripped about 7mm to 10mm. Use 2-pin Euroblock connectors, see Figure 2.3.

2.6 Choosing Control Input and Output Wire and Connectors

Crown recommends using pre-built or professionally wired 16-24AWG wires stripped about 7mm to 10mm.

CONTROL INPUTS: Choose an available terminal and the grounding terminal on the 9-pin barrier type connector to connect your external emergency device, see Figure 2.4.

CONTROL OUTPUTS: Choose an available pin and grounding terminal on the 6-pin barrier type connector to connect

Figure 2.4 Control Input Wiring

图2.4 控制输入连接

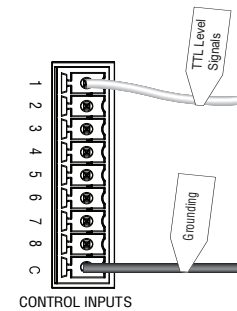
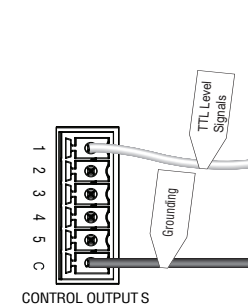


Figure 2.5 Control Output Wiring

图2.5 控制输出连接



警告：只能由专业人员进行接线操作。连接输出线缆时，切勿使用屏蔽电缆。特别留意连接线的极性并防止接反。

2.4 选择功放输入连接接口

Crown推荐您采用预装的或专业的14-20线规线缆，并预留7毫米到10毫米的裸线。

PRIMARY INPUT（主功放输入接口）：使用2针式Euroblock连接器标准线缆连接到主功放输入接口。

BACKUP INPUTS（备用功放输入接口）：使用2针式Euroblock连接器标准线缆连接到备用功放输入接口。

2.5 选择扬声器输出连接接口

Crown推荐您采用预装的或专业的14-20线规线缆，并预留7毫米到10毫米的裸线。使用针式Euroblock连接器进行连接。

2.6 选择控制输入和输出接口

Crown推荐您采用预装的或专业的16-24线规线缆，并预留7毫米到10毫米的裸线。

控制输入：选取9针式连接器上的一可用端口和接地端口，以连接您的外接紧急音源。如图2.4。

控制输出：选取6针式连接器上的一可用端口和接地端口，以连接您的外接控制设备。如图2.5。

2 Setup (continued)

2 安装 (接上一页)

2.7 Connecting to AC Mains

Connect your amplifier switcher to the AC mains power source (power outlet) with the supplied AC power cordset. First, connect the IEC end of the cordset to the IEC connector on the amplifier switcher; then, plug the other end of the cord set to the AC mains.

WARNING: The third prong of this connector (ground) is an important safety feature. Do not attempt to disable this ground connection by using an adapter or other methods.

2.8 Setting an IP Address for the Amplifier Switcher

To use the CT16S amplifier switcher in a paging delivery system, you need to set a specific static IP address or assign a dynamic IP address through DHCP for it. If this unit is used in a PDX system, you can use the PDX System Control application to set the IP address. Or, you can use a deployment tool, NetBurner IPSetup, to make the network configuration. For more information about NetBurner IPSetup, go to the NetBurner Software web site: http://www.netburner.com/products/netburner_software.html

2.9 Management Software

The management software system is needed to monitor, control, and report all operations that CT16S performs in the system. Configuring the CT16S can only occur with the management software. For details about the software package, please consult your Harman distributor or representative.

2.7 连接交流电源

采用功放原装的交流电线组件，将您的主备功放切换器连接到交流电源上（电源插座）。首先，将电线组件的IEC端连接到主备功放切换器的IEC接口上，然后，将电线组件的另一端插入电源插座。

警告：此接口的第三个插脚（接地端）在安全性上起着至关重要的作用。切忌试图使用其它适配器禁用此接地连接。

2.8 设定主备功放切换器的IP地址

当在公共广播传呼系统中使用CT16S主备功放切换器时，您需要给主备功放切换器分配一个静态IP地址或是通过DHCP来分配动态地址。如果此单元用于一套PDX系统，您可以使用PDX系统控制应用程序来设置IP地址。否则您可以使用配置工具NetBurner IPSetup来完成网络设置。如需了解更多有关NetBurner IPSetup的内容，请浏览NetBurner Software网页：http://www.netburner.com/products/netburner_software.html

2.9 管理软件

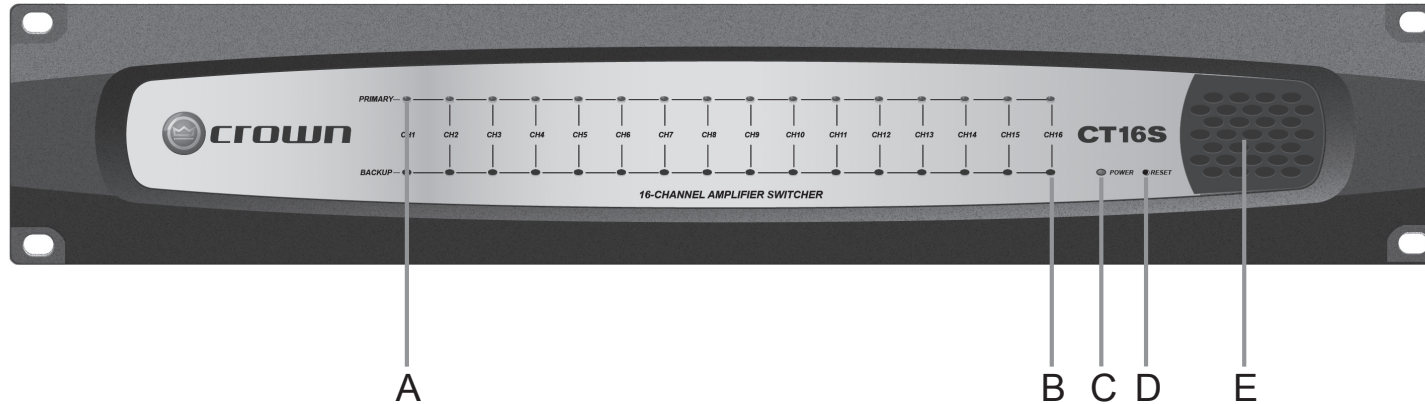
所有CT16S在公共广播系统中的操作需要管理软件监控、控制和记录。只能使用管理软件中配置CT16S。有关软件包的详细信息，请咨询您当地的经销商或销售代表。

3 Front Panel

3 前面板

Figure 3.1 Front Panel

图3.1 前面板



A. Primary Input LED Indicators

- Green LED
- One per output channel
- 16 primary input LED indicators
- Illuminate to indicate that the primary amplifier inputs are activated.

B. Backup Input LED Indicators

- Red LED
- One per output channel
- 16 backup input LED indicators
- Illuminate to indicate that the dedicated backup amplifiers are activated to back up the respective channels..

C. Power LED Indicator

- Blue LED
- Illuminates to indicate that the unit is powered on.

D. Reset Button

- Press this button to reset the unit if the unit is running abnormally.

E. Vent Holes

- Provide heat evacuation to cool the ambient temperature within the unit.

A. 主输入LED显示灯

- 绿色LED
- 每通道一个显示灯
- 16个主输入LED显示灯
- 点亮以表示主功放输入已启用

B. 备用输入LED显示灯

- 红色LED
- 每通道一个显示灯
- 16个备用输入LED显示灯
- 点亮以表示相应通道已启用备用功放

C. 电源LED显示灯

- 蓝色LED
- 点亮以表示此设备已接通电源

D. 重置按钮

如果设备功能异常，可按下此按钮重置此设备。

E. 散热孔

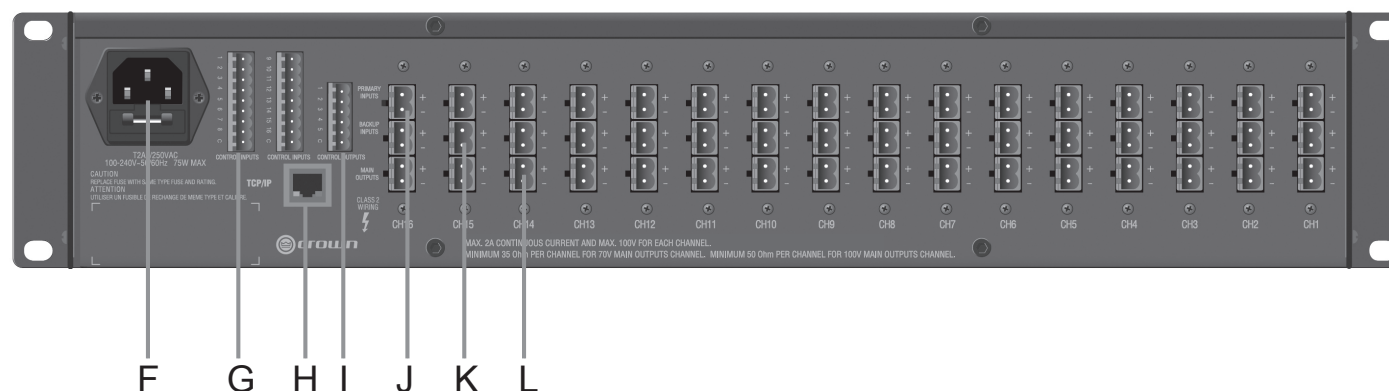
提供空气对流散热机制，降低设备内部温度。

4 Rear Panel

4 后面板

Figure 4.1 Rear Panel

图4.1 后面板



F. AC Power Inlet

The power inlet can accept 100-240VAC at 50 or 60 Hz.

G. Control Inputs

The TTL level signals from emergency sources can input to the two 9-pin control inputs. The information can be sent to the central management system.

H. Ethernet Connector

100 Base-T Ethernet connector provides the communication with the paging delivery controller.

I. Control Outputs

The central management system can control the outputs to other devices through the 6-pin control outputs.

J. Primary Inputs/Primary Amplifier Connectors

The detachable 2-pin Euroblock connector on the top of each connector block is for the connection to a primary amplifier. There are 16 primary amplifier inputs.

K. Backup Inputs/Backup Amplifier Connectors

The detachable 2-pin Euroblock connector on the middle of each connector block is for the connection to a backup amplifier. There are 16 backup amplifier inputs, providing backup ratio from 1 to 16.

L. Main Outputs/Speaker Connectors

The detachable 2-pin Euroblock connector on the bottom of each connector block is for the connection to a speaker. There are 16 speaker outputs.

F. 交流电源输入接口

连接到通用开关电源，允许电压为100-240V交流50/60 Hz。

G. 控制输入

来自紧急音源的TTL (Transistor-Transistor Logic晶体管-晶体管逻辑电平) 电平信号可输入到两组9针式控制输出口，并发送到中央管理系统。

H. 以太网接口

100 Base-T以太网接口提供与公共广播系统控制器进行通讯。

I. 控制输出

中央管理系统可通过6针式控制输出来控制其它设备。

J. 主输入/主功放输入接口

每组连接器顶部的接口为可拆卸式2针Euroblock连接器，用于与主功放的连接。一共有16路主功放输入。

K. 备用输入/备用功放输入接口

每组连接器中间的接口为可拆卸式2针Euroblock连接器，用于与备份功放的连接。一共有16路主功放输入，可提供16:1到1:1的备用比率。

L. 主输出/扬声器输出接口

每组连接器底部的接口为可拆卸式2针Euroblock连接器，用于与扬声器的连接。一共有16路扬声器输出。

5 Troubleshooting

5 故障排除

5.1 Power Indicator

5.1 电源显示灯

PRIMARY ●	 POWER	CONDITION: Power Indicator is OFF. 状态: 电源显示灯熄灭。 POSSIBLE REASON - The amplifier switcher has lost AC power. - The amplifier switcher is not plugged into the power receptacle. 可能原因 - 主备功放切换器未接通电源。 - 主备功放切换器未插入电源插座。
BACKUP ●		

5.2 Primary Indicator

5.2 主功放输入显示灯

PRIMARY ●	 POWER	CONDITION: PRIMARY Indicator is OFF. 状态: 主功放输入显示灯熄灭。 POSSIBLE REASON The primary amplifier input from that channel failed. 可能原因 相应通道上的主功放输入故障。
BACKUP 		

5.3 Backup Indicator

5.3 备用功放显示灯

PRIMARY 	 POWER	CONDITION: BACKUP Indicator is OFF. 状态: 备用功放输入显示灯熄灭。 POSSIBLE REASON The primary amplifier input of that channel resumes to work and the backup amplifier turns off. 可能原因 相应通道上的主功放输入已恢复正常工作，备用功放关闭功能。
BACKUP ●		

NOTE:

- This indicates that the LED indicator is OFF.
此状态表示LED显示灯熄灭。
-  This indicates that the LED indicator is ON.
此状态表示LED显示灯点亮。

6 Specifications

6 规格

Performance 性能		CT16S
Power 功率		100-240VAC 50/60Hz, 2A 75W Max.
Switching Capacity 切换能力		Max.2A Continuous Current and Max.100V For Each Channel 2A Max continuous current and 70V is acceptable
General 一般规格		
Operating Temperature 工作温度		0°C to 35 °C at 95% relative humidity (non-condensing) 0°C到35°C, 95%相对湿度 (非冷凝)
Dimension (H x W x D) 尺寸		19" X 10" X 3.5" (482 mm X 256.2 mm X 88 mm)
Net Weight 净重		10 lbs (4.5 Kg)

7 Service

7 服务

Crown amplifiers are quality units that rarely require servicing. Before returning your unit for service, please contact Crown Technical Support to verify the need for servicing.

This unit has very sophisticated circuitry which should only be serviced by a fully trained technician. This is one reason why each unit bears the following label:



CAUTION: To prevent electric shock, do not remove covers. No user serviceable parts inside. Refer servicing to a qualified technician.

Complete the Crown Audio Factory Service Information form, in the back of this manual, when returning a Crown product to the factory or authorized service center. The form must be included with your product inside the box or in a packing slip envelope securely attached to the outside of the shipping carton. Do not send this form separately.

Warranty is only valid within the country in which the product is purchased.

7.1 International and Canada Service

Service may be obtained from an authorized service center. (Contact your local Crown/Amcron representative or our office for a list of authorized service centers.) To obtain service, simply present the bill of sale as proof of purchase along with the defective unit to an authorized service center. They will handle the necessary paperwork and repair.

Remember to transport your unit in the original factory pack.

7.2 US Service

Service may be obtained in one of two ways: from an authorized service center or from the factory. You may choose either. It is important that you have your copy of the bill of sale as your proof of purchase.

7.2.1 Service at a US Service Center

This method usually saves the most time and effort. Simply present your bill of sale along with the defective unit to an authorized service center to obtain service. They will handle the necessary paperwork and repair. Remember to transport the unit in the original factory

pack. A list of authorized service centers in your area can be obtained from Crown Factory Service, or online from <http://www.crownaudio.com/support/servcent.htm>.

7.2.2 Factory Service

Crown accepts no responsibility for non-serviceable product that is sent to us for factory repair. It is the owner's responsibility to ensure that their product is serviceable prior to sending it to the factory. Serviceable product list is available at <http://crownweb.crownintl.com/crownrma/>. For more information, please contact us direct.

A Service Return Authorization (SRA) is required for product being sent to the factory for repair. An SRA can be completed online at www.crownaudio.com/support/factserv.htm. If you do not have access to the web, please call Crown's Customer Service at 574.294.8200 or 800.342.6939 extension 8205.

For warranty service, we will pay for ground shipping both ways in the United States. Contact Crown Customer Service to obtain prepaid shipping labels prior to sending the unit. Or, if you prefer, you may prepay the cost of shipping, and Crown will reimburse you. Send copies of the shipping receipts to Crown to receive reimbursement. Your repaired unit will be returned via UPS ground. Please contact us if other arrangements are required.

7.2.3 Factory Service Shipping Instructions:

1. Service Return Authorization (SRA) is required for product being sent to the factory for service. Please complete the SRA by going to www.crownaudio.com/support/factserv.htm. If you do not have access to our website, call 1.800.342.6939, extension 8205 and we'll create the SRA for you.
2. See packing instructions that follow.
3. Ship product to:
CROWN AUDIO FACTORY SERVICE
1718 W MISHAWKA RD.
ELKHART, IN 46517
4. Use a bold black marker and write the SRA number on three sides of the box.

5. Record the SRA number for future reference. The SRA number can be used to check the repair status.

7.2.4 Packing Instructions

Important: These instructions must be followed. If they are not followed, Crown Audio, Inc. assumes no responsibility for damaged goods and/or accessories that are sent with your unit.

1. Fill out and include the Crown Audio Factory Service Information sheet in the back of this manual.
2. Do not ship any accessories (manuals, cords, hardware, etc.) with your unit. These items are not needed to service your product. We will not be responsible for these items.
3. When shipping your Crown product, it is important that it has adequate protection. We recommend you use the original pack material when returning the product for repair. If you do not have the original box, please call Crown at 800.342.6939 or 574.294.8210 and order new pack material. See instructions for "foam-in-place" shipping pack. (Do not ship your unit in a wood or metal cabinet.)
4. If you provide your own shipping pack, the minimum recommended requirements for materials are as follows:
 - a. 275 P.S.I. burst test, Double-Wall carton that allows for 2-inch solid Styrofoam on all six sides of unit or 3 inches of plastic bubble wrap on all six sides of unit.
 - b. Securely seal the package with an adequate carton sealing tape.
 - c. Do not use light boxes or "peanuts". Damage caused by poor packaging will not be covered under warranty.

Using your 'foam-in-place' shipping pack

Note: The foam-in-place packing is molded so that there is only one correct position for your product.

1. Open carton and lift center cushion leaving both end-cushions in place.

2. Carefully place your product with the product's front panel facing the same direction as arrows indicate.
3. Reset center cushion down over top of product's chassis. The foam-in-place packing was molded to accommodate different chassis depth sizes. If your product's chassis does not completely fill the foam-in-place cavity, you may use a soft but solid packing material (such as paper or bubble wrap) behind the chassis.
4. Enclose the completed Crown Audio Factory Service Information form (or securely attach it to the outside of carton) and re-seal the shipping pack with a sturdy carton sealing tape.

7.2.5 Estimate Approval

Approval of estimate must be given within 30 days after being notified by Crown Audio Inc. Units still in the possession of Crown after 30 days of the estimate will become the property of Crown Audio Inc.

7.2.6 Payment of Non-Warranty Repairs

Payment on out-of-warranty repairs must be received within 30 days of the repair date. Units unclaimed after 30 days become the property of Crown Audio Inc.

If you have any questions, please contact Crown Factory Service.

Crown Factory Service

1718 W. Mishawaka Rd.,
Elkhart, Indiana 46517 U.S.A.

Telephone:

574.294.8200
800.342.6939 (North America,
Puerto Rico, and Virgin Islands only)

Facsimile:

574.294.8301 (Technical Support)
574.294.8124 (Factory Service)

Internet:

<http://www.crownaudio.com>

7 Service (continued)

7 服务 (接上一页)

Crown 产品是高品质设备, 需要进行维修服务的情况比较少见。将设备送回维修部门进行维修之前, 请联系Crown 技术支持部门, 确认维修需要。

此设备具有十分成熟的电路, 只能由接受过专门培训的技术人员进行操作, 这也是每台设备标注以下标签的原因:



小心: 避免电击, 不要拆卸外壳。设备内无任何可由用户处理的部件。需要维修, 请与专业技术人员联系。

当需要将产品送回到工厂或经授权的服务中心时, 请填写完本手册背面的Crown 出厂服务信息。表格必须跟随包装箱内的产品或贴附在包装纸箱的滑动封皮内一起寄送, 不可单独寄送。

本产品只能在您购入本产品时的国家和地区进行维修。

7.1 在国际上和加拿大进行的服务

经过授权的服务中心可以对产品进行维修 (联系您当地的Crown/Amcron 代理商或我们的办公室, 获取授权服务中心表)。要获得服务, 只需向授权服务中心提供作为证据的购买清单以及故障设备。他们将会处理必要的文书工作并进行产品维修。注意使用出厂原包装运送设备。

7.2 在美国进行的服务

可以通过两种方式对产品进行维修: 由授权的服务中心或工厂进行处理。您可以任意选择。您需要提供一份购买清单的副本, 作为购买证据。

7.2.1 在美国服务中心执行的服务

此方法通常会节省大量的时间和精力。只需向授权服务中心提供作为证据的购买清单以及故障设备。他们将会处理必要的文书工作并进行产品维修。注意, 用出厂原包装运送设备。您可从 Crown 工厂服务部门或网页 www.crownaudio.com/support/servcent.htm 获得您所在区域授权服务中心的清单。

7.2.2 工厂服务部门

Crown对送交给我们并需要在工厂内维修的非保修期内产品不负任何责任。在送交工厂之前, 产品所有人需要负责确认产品符合维修要求。可进行维修的产品列表可以在<http://crownweb.crownintl.com/crownrma/> 获得。要获得更多信息, 请与我们联系。

对于需要送交工厂进行维修的产品, 需提供服务送回认可 (SRA)。可以在互联网上完成SRA的填写。

www.crownaudio.com/support/factserv.htm 如果您不便上网, 请拨打Crown的客户服务热线: 574 294 8200或800 342 6939或8205。

对于保修期内产品, 在美国进行的地面运输由我方付费, 通过两种方式付款。在送交设备前, 请联系Crown客户服务部门, 获得已经完成预付款的运输标签。或者, 如果您愿意, 您可以预先支付运输款项。然后, Crown将为您提供补偿。请将运输收据的副本送交Crown, 然后可收到补偿。在完成维修后, 我们会通过UPS地面运输, 将产品返还。

7.2.3 工厂服务运输说明

1. 对于需要送交工厂进行维修的产品, 需提供服务送回认可 (SRA)。可以在互联网上完成SRA的填写。 www.crownaudio.com/support/factserv.htm 如果您不便上网, 可以拨打电话: 1800 342 6939或8205, 我们将为您制作一份SRA。
2. 参考如下的包装说明。
3. 将产品运送到:

CROWN AUDIO FACTORY SERVICE
1718W MISHAWAKA RD.
ELKHART, IN 46517

4. 在包装箱的三面采用黑体黑色标记, 并记下SRA 编码。
5. 记录下SRA 编号, 以备今后参考之用。SRA 编码可用来询问维修状况。

7.2.4 包装说明

重要提示: 必须按照这些说明进行操作。如果未按照说明操作, Crown Audio 有限公司对送交于我们的受损设备和 (或) 附件概不负责。

1. 完成对手册背面的Crown Audio 工厂服务信息单的填写。
2. 不要将任意的附件 (手册、软电线、硬件等) 与设备一起运输。在对产品进行维修时, 不需要提供这些物品。我们也不会对这些物品负责。
3. 在运输Crown 产品时, 需对产品提供足够的防护。需要送回产品进行维修时, 我们建议采用原始的包装材料。如果您不能使用原始的包装材料, 需打电话给Crown, 电话号码: 800 342 6939 或 574 294 8210 并订购新的包装材料。参考说明, 获得“贴体泡沫”运输包装 (不要将产品放置在木制或金属制的包装盒内)。
4. 如果您所使用的是自己提供的包装盒, 建议对材料的最低要求是:

a、275 P.S.I 爆裂测试, 双层纸箱, 在六面均有 2 英寸固态聚苯乙烯泡沫塑料或 3 英寸的塑料泡沫外套。

b、采用足够的纸箱密封条将包装箱密封牢固。

c、不要采用轻质盒或“简陋的包装材料”。由于包装简陋造成的损坏不在保修范围内。

采用“贴体泡沫”运输包装

注意: 泡沫运输包装是模制的, 因此必须将产品放置在其正确的位置上。

1. 打开纸箱, 提起中央衬垫, 留下两块底端衬垫。
2. 小心安放产品, 使产品正面朝向箭头所指方向。
3. 重新将中央衬垫安置在产品的顶部。贴体

泡沫是模制的, 可以适用于不同深度的底盘。如果产品底盘不能完全适合于贴体泡沫的凹槽, 您可以用柔软而固定的包装材料 (例如纸或泡沫外套) 放在底盘下。

4. 将填写完全的Crown Audio 工厂服务信息表采用牢固的纸箱密封带寄送 (或者贴附在纸箱外侧), 再次密封运输包装。

7.2.5 评价确认

在Crown Audio 有限公司通告之后 30 天内, 必须提供评价确认。在评价完成 30 天后, 如果产品仍然在Crown 处, 则产品将成为CrownAudio 有限公司的财产。

7.2.6 非保修期内的维修

对于非保修期内的维修, 必须在维修期的30天内付款。对于30天后无人认领的设备, 将会变为Crown Audio 有限公司的财产。如果您对此仍有疑问, 请联系Crown 工厂服务部:

Crown工厂服务部
1718 W. Mishawaka Rd.,
Elkhart, Indiana 46517 U.S.A.

电话号码:
574. 294. 8200
800. 342. 6939 (仅限北美,
波多黎各, 以及维尔金群岛)

传真号码:
574. 294. 8301 (技术支持部)
574. 294. 8124 (工厂服务部)

互联网网址:
<http://www.crownaudio.com>

8 Warranty

8 保修



SUMMARY OF WARRANTY

Crown International, 1718 West Mishawaka Road, Elkhart, Indiana 46517-4095 U.S.A. warrants to you, the ORIGINAL PURCHASER and ANY SUBSEQUENT OWNER of each NEW Crown product, for a period of three (3) years from the date of purchase by the original purchaser (the "warranty period") that the new Crown product is free of defects in materials and workmanship. We further warrant the new Crown product regardless of the reason for failure, except as excluded in this Warranty.

Warranty is only valid within the country in which the product was purchased.

ITEMS EXCLUDED FROM THIS CROWN WARRANTY

This Crown Warranty is in effect only for failure of a new Crown product which occurred within the Warranty Period. It does not cover any product which has been damaged because of any intentional misuse, accident, negligence, or loss which is covered under any of your insurance contracts. This Crown Warranty also does not extend to the new Crown product if the serial number has been defaced, altered, or removed.

WHAT THE WARRANTOR WILL DO

We will remedy any defect, regardless of the reason for failure (except as excluded), by repair, replacement, or refund. We may not elect refund unless you agree, or unless we are unable to provide replacement, and repair is not practical or cannot be timely made. If a refund is elected, then you must make the defective or malfunctioning product available to us free and clear of all liens or other encumbrances. The refund will be equal to

the actual purchase price, not including interest, insurance, closing costs, and other finance charges less a reasonable depreciation on the product from the date of original purchase. Warranty work can only be performed at our authorized service centers or at the factory. Warranty work for some products can only be performed at our factory. We will remedy the defect and ship the product from the service center or our factory within a reasonable time after receipt of the defective product at our authorized service center or our factory. All expenses in remedying the defect, including surface shipping costs in the United States, will be borne by us. (You must bear the expense of shipping the product between any foreign country and the port of entry in the United States including the return shipment, and all taxes, duties, and other customs fees for such foreign shipments.)

HOW TO OBTAIN WARRANTY SERVICE

You must notify us of your need for warranty service within the warranty period. All components must be shipped in a factory pack, which, if needed, may be obtained from us free of charge. Corrective action will be taken within a reasonable time of the date of receipt of the defective product by us or our authorized service center. If the repairs made by us or our authorized service center are not satisfactory, notify us or our authorized service center immediately.

DISCLAIMER OF CONSEQUENTIAL AND INCIDENTAL DAMAGES

YOU ARE NOT ENTITLED TO RECOVER FROM US ANY INCIDENTAL DAMAGES RESULTING FROM ANY DEFECT IN THE NEW CROWN PRODUCT.

THIS INCLUDES ANY DAMAGE TO ANOTHER PRODUCT OR PRODUCTS RESULTING FROM SUCH A DEFECT. SOME STATES DO NOT ALLOW THE EXCLUSION OR LIMITATIONS OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THE ABOVE LIMITATION OR EXCLUSION MAY NOT APPLY TO YOU.

WARRANTY ALTERATIONS

No person has the authority to enlarge, amend, or modify this Crown Warranty. This Crown Warranty is not extended by the length of time which you are deprived of the use of the new Crown product. Repairs and replacement parts provided under the terms of this Crown Warranty shall carry only the unexpired portion of this Crown Warranty.

DESIGN CHANGES

We reserve the right to change the design of any product from time to time without notice and with no obligation to make corresponding changes in products previously manufactured.

LEGAL REMEDIES OF PURCHASER

THIS CROWN WARRANTY GIVES YOU SPECIFIC LEGAL RIGHTS, YOU MAY ALSO HAVE OTHER RIGHTS WHICH VARY FROM STATE TO STATE. No action to enforce this Crown Warranty shall be commenced after expiration of the warranty period.

THIS STATEMENT OF WARRANTY SUPERSEDES ANY OTHERS CONTAINED IN THIS MANUAL FOR CROWN PRODUCTS. 9/07

UNITED STATES & CANADA

8 Warranty (continued)

8 保修 (接上一页)



SUMMARY OF WARRANTY

Crown International, 1718 West Mishawaka Road, Elkhart, Indiana 46517-4095 U.S.A. warrants to you, the ORIGINAL PURCHASER and ANY SUBSEQUENT OWNER of each NEW Crown product, for a period of three (3) years from the date of purchase by the original purchaser (the "warranty period") that the new Crown product is free of defects in materials and workmanship, and we further warrant the new Crown product regardless of the reason for failure, except as excluded in this Warranty.

Warranty is only valid within the country in which the product is purchased.

1 Note: If your unit bears the name "Amcron," please substitute it for the name "Crown" in this warranty.

ITEMS EXCLUDED FROM THIS CROWN-WARRANTY

This Crown Warranty is in effect only for failure of a new Crown product which occurred within the Warranty Period. It does not cover any product which has been damaged because of any intentional misuse, accident, negligence, or loss which is covered under any of your insurance contracts. This Crown Warranty also does not extend to the new Crown product if the serial number has been defaced, altered, or removed.

WORLDWIDE EXCEPT USA & CANADA

WHAT THE WARRANTOR WILL DO

We will remedy any defect, regardless of the reason for failure (except as excluded), by repair, replacement, or refund. We may not elect refund unless you agree, or unless we are unable to provide replacement, and repair is not practical or cannot be timely made. If a refund is elected, then you must make the defective or malfunctioning product available to us free and clear of all liens or other encumbrances. The refund will be equal to the actual purchase price, not including interest, insurance, closing costs, and other finance charges less a reasonable depreciation on the product from the date of original purchase. Warranty work can only be performed at our authorized service centers. We will remedy the defect and ship the product from the service center within a reasonable time after receipt of the defective product at our authorized service center.

HOW TO OBTAIN WARRANTY SERVICE

You must notify your local Crown importer of your need for warranty service within the warranty period. All components must be shipped in the original box. Corrective action will be taken within a reasonable time of the date of receipt of the defective product by our authorized service center. If the repairs made by our authorized service center are not satisfactory, notify our authorized service center immediately.

DISCLAIMER OF CONSEQUENTIAL AND INCIDENTAL DAMAGES

YOU ARE NOT ENTITLED TO RECOVER FROM US ANY INCIDENTAL DAMAGES RESULTING FROM ANY DEFECT IN THE NEW CROWN PRODUCT. THIS INCLUDES ANY DAMAGE TO ANOTHER PRODUCT OR PRODUCTS RESULTING FROM SUCH A DEFECT.

WARRANTY ALTERATIONS

No person has the authority to enlarge, amend, or modify this Crown Warranty. This Crown Warranty is not extended by the length of time which you are deprived of the use of the new Crown product. Repairs and replacement parts provided under the terms of this Crown Warranty shall carry only the unexpired portion of this Crown Warranty.

DESIGN CHANGES

We reserve the right to change the design of any product from time to time without notice and with no obligation to make corresponding changes in products previously manufactured.

LEGAL REMEDIES OF PURCHASER

No action to enforce this Crown Warranty shall be commenced after expiration of the warranty period.

THIS STATEMENT OF WARRANTY SUPERSEDES ANY OTHERS CONTAINED IN THIS MANUAL FOR CROWN PRODUCTS. 9/07

8 Warranty (continued)

8 保修 (接上一页)



美国和加拿大

保修概述

Crown国际有限公司, 1718 West Mishawaka Road, Elkhart, Indiana 46517-4095 U. S. A., 为您提供保修, Crown新产品的原始购买者和后续的用户, 可以自原始购买日期起在为期3年的期限内 (“保修期限”) 对因Crown新产品的材料和工艺而引起的问题进行免费维修。我们进一步保证, 在不考虑故障原因的情况下, 进行维修。保障条款中的例外情况除外。

1注意: Crown产品的保修服务及条款只适用于销售该产品的国家。

CROWN保修条款以外的情况

此保修条款仅对产品保修期内出现的故障有效。保修不能涵盖的情况包括, 由于故意误用、意外、疏忽引起的产品受损或在任意保险合同下涵盖的损失。如果产品序列号受损、变更或改动, 新产品所具有的Crown保险条款也将无效。

保修方需要做的事情

不考虑故障原因的情况下 (例外情况除外), 我们将会通过维修、更换或退款的方式对故障采取补救措施。当不能对设备进行更换, 而且无法执行修复或及时修复, 我们才会选取退款方式。如果选择退款, 您需要将故障或问题产品免费提供给我们并不计入任何抵押利息。

退款等同于实际产品的价格, 不包括利息、保险、手续费和其它费用, 并减去自购买之日起产品折旧费。保修只能由经过我们授权的服务中心或在工厂完成。而某些产品的保修只能在我们的工厂进行。在授权服务中心或我们的工厂收到故障产品后, 我们将在合理的时间, 在服务中心或我们的工厂对运来的故障产品及时采取补救措施。在维修时产生的所有费用, 包括美国境内表面运输成本将由我们承担。(您必须承担由外国运到美国港口的运输费用, 其中包括返回运费和所有税款、关税和其它针对国外货品的进口关税。)

如何得到保修服务

您必须在保修期内向我们通告保修服务的需求。所有的元器件必须放置在工厂包装箱中进行运输, 如果需要您可以从我们这里免费得到包装箱。收到故障产品后, 我们或我们授权的服务中心将在合理的时间段内及时进行维修。如果维修的结果不令人满意, 请立即通知我们或我们授权的服务中心。

不承诺相因而生的和附带的损坏

因Crown新产品问题而引起的附带损坏, 不在保修范围内。这其中包括对某一其它产品或某些其他产品引起的损坏。有些州, 不允许排除对相因而生的

附带损坏的保修。因此, 以上的限制或例外情况可能不适用于您。

保修变更

Crown没有授权任何人对保修条款进行扩大、变更或修改。这份保修条款不会因您使用产品时间很短而延长。在这份Crown保修条款下, 维修和部件更换只能在Crown保修期未到时执行。

设计变更

我们保留在未预先通知时便进行产品设计更改的权利, 不负责以前生产的产品之设计变更。

对购买人的法定赔偿

Crown保修给予您具体的法定权利。由于州与州之间存在差异, 您也许可以获得其它权利。在保修期结束之后, 不能执行保修条款规定的操作。

用于代替包含在Crown产品手册的任何保修声明。 12/01

8 Warranty (continued)

8 保修 (接上一页)



除美国和加拿大之外的世界其它地区

保修概述

Crown国际有限公司, 1718 West Mishawaka Road, Elkhart, Indiana 46517-4095 U.S.A., 为您提供保修, Crown新产品的原始购买者和后续的用户, 可以自原始购买日期起在为期3年的期限内 (“保修期限”) 对因Crown新产品的材料和工艺而引起的问题进行免费维修。我们进一步保证, 在不考虑故障原因的情况下, 进行维修。保障条款中的例外情况除外。

1注意: 如果您的产品上标有名称 “Amcron”, 在这份保修中, 请用名称 “Crown” 替换。

CROWN保修条款以外的情况

此保修条款仅对产品保修期内出现的故障有效。保修不能涵盖的情况包括, 由于故意误用、意外、疏忽引起的产品受损或在任意保险合同下涵盖的损失。如果产品序列号受损、变更或改动, 新产品所具有的Crown保险条款也将无效。

保修方需要做的事情

不考虑故障原因的情况下 (例外情况除外), 我们将会通过维修、更换或退款的方式对故障采取补救措施。当不能对

设备进行更换, 而且无法执行修复或及时修复, 我们才会选取退款方式。如果选择退款, 您需要将故障或问题产品免费提供给我们并不计入任何抵押利息。退款等同于实际产品的价格, 不包括利息、保险、手续费和其它费用, 并减去自购买之日起产品折旧费。保修只能由经过我们授权的服务中心进行维修。我们将在合理的时间, 在服务中心对运来的故障产品及时采取补救措施。

如何得到保修服务

您必须在保修期内向您当地的Crown进口商通告保修服务的需求。所有的元器件必须放置在原始包装箱中进行运输, 如果需要您可以从我们这里免费得到包装箱。收到故障产品我们或我们授权的服务中心将在合理的时间段内及时进行维修。如果维修的结果不令人满意, 请立即通知我们或我们授权的服务中心。

不承诺相因而生的和附带的损坏

因Crown新产品问题而引起的附带损坏, 不在保修范围内。这其中包括对某一其它产品或某些其他产品引起的损坏。

Crown没有授权任何人对保修条款进行扩大、变更或修改。这份保修条款不会因您使用产品时间很短而延长。在这份Crown保修条款下, 维修和部件更换只能在Crown保修期到期前执行。

设计变更

我们保留在未预先通知时便进行产品设计更改的权利, 不负责以前生产的产品之设计变更。

对购买人的法定赔偿

在保修期结束之后, 不能执行保修条款规定的操作。

用于代替包含在Crown产品手册的任何保修声明。 9/07

中国RoHS声明

产品中有毒有害物质或元素的名称及含量：

部件名称	有毒有害物质或元素					
	铅 (Pb)	汞 (Hg)	镉 (Cd)	六价铬 (Cr+6)	多溴联苯 (PBB)	多溴二苯醚 (PBDE)
控制面板	○	○	○	○	○	○
电路板组件	○	○	○	○	○	○
外壳	○	○	○	○	○	○
附件(遥控器, 螺丝刀, 白手套, 电源线, 连接线)	○	○	○	○	○	○

“○”：表示该有毒有害物质在该部件所有均质材料中的含量均在SJ/T11363-2006标准规定的限量要求以下。

“X”：表示该有毒有害物质至少在该部件的某一均质材料中的含量超出SJ/T11363-2006标准规定的限量要求。



此绿色环保标识表示电子信息产品中不含有有毒有害物质或元素，用户使用该电子信息产品不会对环境造成污染或对其人身，财产造成损害。



PRODUCT REGISTRATION

Crown Audio, Inc.
1718 W. Mishawaka Rd.
Elkhart, IN 46517-9439
Phone: 574-294-8000
Fax: 574-294-8329
www.crownaudio.com

Online registration is also available at <http://crownweb.crownintl.com/webregistration>.

Warranty is only valid within the country in which the product is purchased.

When this form is used to register your product, it may be mailed or faxed.

Crown Audio, Inc. Fax: 574-294-8329
1718 W Mishawaka Rd
Elkhart IN 46517

Please note that some information is required. Incomplete registrations will not be processed. * Indicates required information.

OWNER'S INFORMATION - PLEASE PRINT

* First name: _____ Middle initial: _____ * Last name: _____
Company: _____
* Mailing address: _____
* City: _____ * State: _____ * Zip Code: _____
* Country: _____ E-mail address: _____
* Phone # (include area code): _____ Fax #: _____

PRODUCT INFORMATION

* MODEL	* SERIAL #	* PURCHASE DATE
e.g. IT8000, CDi1000, PCC160	e.g. 8000000000	mo/day/yr
_____	_____	____/____/____
_____	_____	____/____/____
_____	_____	____/____/____
_____	_____	____/____/____

Product purchased from: *(Business/Individual) _____ Country: _____

Comments: _____



产品注册

Crown Audio有限公司
1718 W. Mishawaka Rd.
Elkhart, IN 46517-9439
电话: 574-294-8000
传真: 574-294-8329
www.crownaudio.com

也可以在网上登记, 网址为: <http://crownweb.crownintl.com/webregistration>。

如果此表格用于为您的产品登记, 则需要将其邮寄或传真至如下地址:

Crown Audio, Inc.
1718 W Mishawaka Rd
Elkhart IN 46517

传真: 574-294-8329

请注意, 有些信息是必填项, 未填写完全的登记表将不被处理。带*的项为必填项。

所有人信息 - 请打印

* 您的姓名: _____
公司名称: _____
* 邮寄地址: _____
* 城市: _____ * 省: _____ * 邮编: _____
* 国家: _____ 电子邮件地址: _____
* 电话号码 (包括区号): _____ 传真号码: _____

产品信息

* 型号	* 系列号	* 购买日期
_____	_____	_____
_____	_____	_____
_____	_____	_____

* 产品购买地址: _____ 城市: _____
备注: _____

CUT ON THIS LINE

Crown Audio Factory Service Information

Shipping Address: Crown Audio Factory Service, 1718 W. Mishawaka Rd., Elkhart, IN 46517

PLEASE PRINT CLEARLY

SRA #: _____ (If sending product to Crown factory service.) Model: _____ Serial Number: _____ Purchase Date: _____

PRODUCT RETURN INFORMATION

Individual or Business Name: _____

Phone #: _____ Fax #: _____ E-Mail: _____

Street Address (please, no P.O. Boxes): _____

City: _____ State/Prov: _____ Postal Code: _____ Country: _____

Nature of problem: _____

Other equipment in your system: _____

If warranty is expired, please provide method of payment. Proof of purchase may be required to validate warranty.

PAYMENT OPTIONS

☐ I have open account payment terms. Purchase order required. PO#: _____ ☐ COD

☐ Credit Card (Information below is required; however if you do not want to provide this information at this time, we will contact you when your unit is repaired for the information.)

Credit card information:

Type of credit card: ☐ MasterCard ☐ Visa ☐ American Express ☐ Discover

Type of credit card account: ☐ Personal/Consumer ☐ Business/Corporate

Card # _____ Exp. date: _____ * Card ID #: _____

* Card ID # is located on the back of the card following the credit card #, in the signature area. On American Express, it may be located on the front of the card. This number is required to process the charge to your account. If you do not want to provide it at this time, we will call you to obtain this number when the repair of your unit is complete.

Name on credit card: _____

Billing address of credit card: _____

Crown 工厂服务信息

运输地址: Crown Factory Service, 1718 W. Mishawaka Rd., Elkhart, IN 46517

请进行清晰打印

SRA 编号: _____ (如果将产品送到 Crown 工厂服务部) 规格: _____ 序列号: _____ 购买日期: _____

产品返回信息

个人或公司名称: _____

电话号码: _____ 传真号码: _____ 电子邮件地址: _____

街道地址(邮政信箱编号): _____

城市: _____ 州/省: _____ 邮政编码: _____ 郡县: _____

问题类型: _____

系统上的其它设备: _____

如果保修过期, 请提供付款方式。另需要提供购买证据, 用于确认保修有效。

付款选择

我已经为付款开户, 已提供购物单, 邮政编号: _____ ☐ COD

信用卡(需要填写如下信息, 如果您不想在此次提供这些信息, 我们会在维修您的设备时向您索取这些信息)。

信用卡信息: ☐ MasterCard ☐ Visa ☐ America Express ☐ Discover

信用卡类型: ☐ 个人/消费者 ☐ 商业/企业

信用卡帐户类型:

卡号: _____ 有效截止期: _____ *卡身份编号: _____

*卡身份编号位于卡的背面, 在信用卡编号之后, 在签名处。在美国运通卡上, 它位于信用卡的正面, 需要对编号进行处理, 从而对帐户进行操作。如果您不想在此次提供这一号码, 我们会在维修您的设备时向您索取这些信息。

信用卡上的姓名: _____

信用卡出具发票的地址: _____

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