

# Saturn

## MCS 4000 Multichannel On-Air System

See page 1–10 for equipment part numbers

Software version 7.2



### Installation and Operating Manual

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*the most watched worldwide*

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## Glossary

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## *Regulatory Compliance Notices*

The following information is given to note conformity with these standards:

### **US FCC Rules**

Reference: Part 15 Subparts A and B.

**Notice: interference to radio communications in a domestic environment.** This equipment generates, uses, and can radiate radio frequency energy and if not installed and used in accordance with the instruction manual may cause interference to radio communications. As temporarily permitted by regulation it has not been tested for compliance with the limits for Class A computing devices pursuant to Subpart J of Part 15 of FCC Rules, which are designed to provide reasonable protection against such interference. **Operation of this equipment in a residential area is likely to cause interference** in which case the user at his own expense will be required to take whatever measures may be required to correct the interference.

### **EEC EMC (EN series)**

Refer to the Declaration of Conformity in the shipping container.

Note: Compliance with the EEC EMC standards listed in Declaration of Conformity qualifies the listed products for CE Mark certification at the time of publication.

### **UL**

UL – 1950

### **CSA**

CSA – C22.2 No. 950–M89

For additional safety information, see the following page.

## Safety Notices

**Caution: Electric shock danger.** To reduce risk of electric shock, do not perform any servicing other than that contained in the manual unless you are qualified to do so.

*Attention: Danger de choc électrique. Pour réduire tout risque de choc électrique, veuillez ne faire aucun entretien à l'appareil autre que ce qui est indiqué dans le manuel, à moins d'être un technicien qualifié.*

**Caution: The Control Console, the optional Backup Switcher, and the HD Video Processor each have two power cords. To prevent electric shock disconnect both power cords before servicing.**

*Attention: La console de contrôle, le Backup Switcher, et le HD Video Processor ont deux cordons d'alimentation. Pour éviter un choc électrique, débranchez les deux cordons d'alimentation avant de faire une réparation.*

**Caution: Some of the Saturn power supplies are not auto-sensing.** To verify that all power supplies are set correctly, refer to the *Saturn Installation and Operating manual*, Section 2, "Summary of Installation Procedure."

*Attention: Certaines des alimentations Saturn ne sont pas auto-sensibles. Afin de vérifier que toutes les alimentations soient réglées correctement, veuillez vous référer au Saturn Installation and Operating manual, Section 2, "Summary of Installation Procedure."*

**Caution: Some units in the Saturn system do not have power switches.** These units rely on the power cord as a disconnect device.

*Attention: Certaines des unités dans le système Saturn n'ont pas d'interrupteurs. Il faut débrancher l'appareil pour couper le courant.*

**Caution: The RPP 3500/4000 chassis is equipped with a foam-pad-type air filter that must be cleaned periodically.** This filter is mounted in a slide-out frame located on the right side of the chassis (viewed from the rear). Failure to clean the filter when needed could result in equipment overheating.

*Attention: Le chassis du RPP 3500/4000 est équipé d'un filtre à air en mousse qui doit être nettoyé périodiquement. Ce filtre est serti dans une monture sur le côté droit du chassis (vue arrière). Défaut de nettoyer le filtre pourrait surchauffer l'appareil.*

**Electrical code:** Equipment used in the USA must be installed in accordance with NEC and local code. Equipment used in Canada must be installed in accordance with the CEC code.

## ***Warranty Statement***

THOMSON BROADCAST & MEDIA SOLUTIONS (“TBMS”) warrants that the products purchased will be free from defects in materials and workmanship for the period stated in the Complimentary Warranty Services Summary or when no period is stated for a period ending at the earlier of one (1) year from the date of installation or fifteen (15) months from the date of shipment. If any such product proves defective during this warranty period, TBMS, at its option, either will repair the defective product without charge for parts and labor, or will provide a replacement in exchange for the defective product.

In order to obtain service under this warranty, Customer must notify TBMS of the defect before the expiration of the warranty period and make suitable arrangements for the performance of service. Customer shall be responsible for packaging and shipping the defective product to the service center designated by TBMS, with shipping charges prepaid. TBMS shall pay for the return of the product to Customer.

This warranty shall not apply to any defect, failure or damage caused by improper use or improper or inadequate maintenance and care. TBMS shall not be obligated to reimburse Customer for service provided by personnel other than TBMS representatives or to furnish service under this warranty a) to repair damage resulting from attempts by personnel other than TBMS representatives to install, repair or service the product; b) to repair damage resulting from improper use or connection to incompatible equipment; or c) to service a product that has been modified or integrated with other products without Thomson’s written approval.

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Internet: [www.thomsongrassvalley.com](http://www.thomsongrassvalley.com)

### ***INTERNATIONAL PARTS AND SERVICE***

Contact your local Thomson representative.

## *Related Documentation*

(Copies of these documents are also available on the Technical Publications Library CD-ROM supplied with the manual you are now reading.)

Saturn Master Control Switcher Operator Manual	04-046654-003
(Material in the Operator Manual is duplicated in Section 4 of the manual you are now reading.)	
DVE Option Installation and Operating Manual	04-050183-002
Jupiter Getting Started Guide	04-045707-003
Describes simplified software configuration procedures for quick system startup.	
Jupiter Facility Control System Installation and Operating Manual	04-045707-002
Includes hardware installation of VM 3000, SI 3000; MPK control panels; under monitor displays, file server, and LAN card. Describes software configuration.	
Jupiter multimedia courses:	
Setting Up, Configuring, and Operating a Basic Jupiter Control System	071-8189-00
Building a Jupiter Tally System from the Ground Up	071-8188-00
Finding Your Path through Path Finding	071-8187-00
CP 300 Series control panels / CE 300 Control Boards Installation and Operating Manual	04-045227-002
Includes CP 300, 310, 320, and 330.	
Saturn Automation Commands Manual	04-46654-004
Summary of automation commands as implemented by Saturn. For programmers.	
MNC Technical Publications Library CD-ROM	46-050812-001
Includes installation/operating manuals, assembly drawings, and Field Engineering Bulletins for most Thomson products developed at the Salt Lake City design center.	

BSD 2000 Under Monitor Status Displays Installation Manual	04-041602-004
Under Monitor Status Displays RP 1/2/3 UMD Operating Instructions	Contact Thomson
CP 2002 Control Panel series Trinix / Venus / Triton / Grass Valley routing switchers DD Series production switchers	Contact Thomson