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You can read the recommendations in the user guide, the technical guide or the installation guide for GRASS VALLEY KAYENNE. You'll find the answers to all your questions on the GRASS VALLEY KAYENNE in the user manual (information, specifications, safety advice, size, accessories, etc.). Detailed instructions for use are in the User's Guide.

User manual GRASS VALLEY KAYENNE
User guide GRASS VALLEY KAYENNE
Operating instructions GRASS VALLEY KAYENNE
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KAYENNE VIDEO PRODUCTION CENTER



Installation & Service Manual
Software Version 2.0

www.grassvalley.com

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JANUARY 2011



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Manual abstract:

Salt Lake City, UT 84119 United States Technopole Brest-Iroise Site de la Pointe du Diable CS 73808 29238 Brest Cedex 3 France Brunnenweg 9 D-64331 Weiterstadt Germany Including its implementation, meets the requirements of the standard: ISO 9001:2008 Scope: The design, manufacture and support of video and audio hardware and software products and related systems. This Certificate is valid until: This Certificate is valid as of: Certified for the first time: June 14, 2012 June 14, 2009 June 14, 2000 H. Pierre Sallé President KEMA-Registered Quality The method of operation for quality certification is defined in the KEMA General Terms And Conditions For Quality And Environmental Management Systems Certifications. Integral publication of this certificate is allowed. KEMA-Registered Quality, Inc. 4377 County Line Road Chalfont, PA 18914 Ph: (215)997-4519 Fax: (215)997-3809 CRT 001 073004 Accredited By: ANAB KAYENNE VIDEO PRODUCTION CENTER Installation & Service Manual Software Version 2.0 071868902 JANUARY 2011 Contacting Grass Valley International France United States/Canada +800 8080 2020 or +33 1 48 25 20 20 24 x 7 Support Centers 24 x 7 Asia +1 800 547 8949 or +1 530 478 4148 Hong Kong, Taiwan, Korea, Macau: +852 2531 3058 Indian Subcontinent: +91 22 24933476 Southeast Asia/Malaysia: +603 7805 3884 Southeast Asia/Singapore: +65 6379 1313 China: +861 0660 159 450 Japan: +81 3 5484 6868 Local Support Australia and New Zealand: +61 1300 721 495 Central/South America: +55 11 5509 3443 Centers (available Middle East: +971 4 299 64 40 Near East and Africa: +800 8080 2020 or +33 1 48 25 20 20 during normal Belarus, Russia, Tadzikistan, Ukraine, Uzbekistan: +7 095 2580924 225 Switzerland: +41 1 487 80 02 business hours) S. Europe/Italy-Roma: +39 06 87 20 35 28 -Milan: +39 02 48 41 46 58 S. Europe/Spain: +34 91 512 03 50 Europe Benelux/Belgium: +32 (0) 2 334 90 30 Benelux/Netherlands: +31 (0) 35 62 38 42 1 N. Europe: +45 45 96 88 70 Germany, Austria, Eastern Europe: +49 6150 104 444 UK, Ireland, Israel: +44 118 923 0499 Copyright © Grass Valley USA, LLC.

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..... 12 KAYENNE -- Installation & Service Manual Preface About This Manual This Kayenne Installation & Service Manual is designed for technical personnel responsible for installing and maintaining Kayenne Video Production Center systems. Standard Documentation Set The standard Kayenne documentation set consists of a: User Manual, Installation & Service Manual, Release Notes, and Release Notes Addendum.



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The Kayenne User Manual contains background information about the Kayenne Video Production Center, and describes operating procedures. This manual can be used while learning about Kayenne, and for enhancing your basic knowledge of the system. The Kayenne Installation & Service Manual contains information about installing, configuring, and maintaining the system.

The Kayenne Release Notes contain information about new features and system enhancements for a specific software version, and also includes software installation procedures. Always check the release notes for your current system software before you begin operating your system. The Kayenne Release Notes Addendum contains corrected and known issues about the system software. Other Documentation The Switcher Products Protocols Manual is available for developers and software engineers to use to design interfaces to the Kayenne system. KAYENNE -- Installation & Service Manual 13 Preface 14 KAYENNE -- Installation & Service Manual Safety Summary Read and follow the important safety information below, noting especially those instructions related to risk of fire, electric shock or injury to persons.

Additional specific warnings not listed here may be found throughout the manual. WARNING Any instructions in this manual that require opening the equipment cover or enclosure are for use by qualified service personnel only. To reduce the risk of electric shock, do not perform any servicing other than that contained in the operating instructions unless you are qualified to do so. Safety Terms and Symbols Terms in This Manual Safety-related statements may appear in this manual in the following form: WARNING Warning statements identify conditions or practices that may result in personal injury or loss of life.

CAUTION Caution statements identify conditions or practices that may result in damage to equipment or other property, or which may cause equipment crucial to your business environment to become temporarily non-operational.

Terms on the Product The following terms may appear on the product: DANGER -- A personal injury hazard is immediately accessible as you read the marking. WARNING -- A personal injury hazard exists but is not immediately accessible as you read the marking. CAUTION -- A hazard to property, product, and other equipment is present. KAYENNE -- Installation & Service Manual 15 Safety Summary Symbols on the Product The following symbols may appear on the product: Indicates that dangerous high voltage is present within the equipment enclosure that may be of sufficient magnitude to constitute a risk of electric shock. Indicates that user, operator or service technician should refer to product manual(s) for important operating, maintenance, or service instructions. This is a prompt to note fuse rating when replacing fuse(s). The fuse referenced in the text must be replaced with one having the ratings indicated. Identifies a protective grounding terminal which must be connected to earth ground prior to making any other equipment connections. Identifies an external protective grounding terminal which may be connected to earth ground as a supplement to an internal grounding terminal. Indicates that static sensitive components are present which may be damaged by electrostatic discharge.

Use anti-static procedures, equipment and surfaces during servicing. Warnings The following warning statements identify conditions or practices that can result in personal injury or loss of life: Dangerous voltage or current may be present -- Disconnect power and remove battery (if applicable) before removing protective panels, soldering, or replacing components. Do not service alone -- Do not internally service this product unless another person capable of rendering first aid and resuscitation is present. Remove jewelry -- Prior to servicing, remove jewelry such as rings, watches, and other metallic objects. Avoid exposed circuitry -- Do not touch exposed connections, components or circuitry when power is present. 16 KAYENNE -- Installation & Service Manual Safety Summary Use proper power cord -- Use only the power cord supplied or specified for this product. Ground product -- Connect the grounding conductor of the power cord to earth ground. Operate only with covers and enclosure panels in place -- Do not operate this product when covers or enclosure panels are removed. Use correct fuse -- Use only the fuse type and rating specified for this product. Use only in dry environment -- Do not operate in wet or damp conditions.

Use only in non-explosive environment -- Do not operate this product in an explosive atmosphere. High leakage current may be present -- Earth connection of product is essential before connecting power. Dual power supplies may be present -- Be certain to plug each power supply cord into a separate branch circuit employing a separate service ground. Disconnect both power supply cords prior to servicing. Double pole neutral fusing -- Disconnect mains power prior to servicing.

Use proper lift points -- Do not use door latches to lift or move equipment. Avoid mechanical hazards -- Allow all rotating devices to come to a stop before servicing. Cautions The following caution statements identify conditions or practices that can result in damage to equipment or other property: Use correct power source -- Do not operate this product from a power source that applies more than the voltage specified for the product. Use correct voltage setting -- If this product lacks auto-ranging power supplies, before applying power ensure that the each power supply is set to match the power source. Provide proper ventilation -- To prevent product overheating, provide equipment ventilation in accordance with installation instructions.

Use anti-static procedures -- Static sensitive components are present which may be damaged by electrostatic discharge. Use anti-static procedures, equipment and surfaces during servicing. Do not operate with suspected equipment failure -- If you suspect product damage or equipment failure, have the equipment inspected by qualified service personnel. KAYENNE -- Installation & Service Manual 17 Safety Summary Ensure mains disconnect -- If mains switch is not provided, the power cord(s) of this equipment provide the means of disconnection. The socket outlet must be installed near the equipment and must be easily accessible. Verify that all mains power is disconnected before installing or removing power supplies and/or options. Route cable properly -- Route power cords and other cables so that they are not likely to be damaged. Properly support heavy cable bundles to avoid connector damage. Use correct power supply cords -- Power cords for this equipment, if provided, meet all North American electrical codes. Operation of this equipment at voltages exceeding 130 VAC requires power supply cords which comply with NEMA configurations.



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International power cords, if provided, have the approval of the country of use. Use correct replacement battery -- This product may contain batteries. To reduce the risk of explosion, check polarity and replace only with the same or equivalent type recommended by manufacturer. Dispose of used batteries according to the manufacturer's instructions. Troubleshoot only to board level -- Circuit boards in this product are densely populated with surface mount technology (SMT) components and application integrated circuits (ASICs). As a result, circuit board repair at the component level is very difficult in the field, if not impossible. For warranty compliance, do not troubleshoot systems beyond the board level. 18 KAYENNE -- Installation & Service Manual Safety Summary Sicherheit Überblick Lesen und befolgen Sie die wichtigen Sicherheitsinformationen dieses Abschnitts. Beachten Sie insbesondere die Anweisungen bezüglich Brand-, Stromschlag- und Verletzungsgefahren. Weitere spezifische, hier nicht aufgeführte Warnungen finden Sie im gesamten Handbuch.

WARNUNG Alle Anweisungen in diesem Handbuch, die das Abnehmen der Geräteabdeckung oder des Gerätegehäuses erfordern, dürfen nur von qualifiziertem Servicepersonal ausgeführt werden. Um die Stromschlaggefahr zu verringern, führen Sie keine Wartungsarbeiten außer den in den Bedienungsanleitungen genannten Arbeiten aus, es sei denn, Sie besitzen die entsprechende Qualifikation für diese Arbeiten. Sicherheit Begriffe und Symbole In diesem Handbuch verwendete Begriffe Sicherheitsrelevante Hinweise können in diesem Handbuch in der folgenden Form auftauchen: **WARNUNG** Warnungen weisen auf Situationen oder Vorgehensweisen hin, die Verletzungs- oder Lebensgefahr bergen. **VORSICHT** Vorsichtshinweise weisen auf Situationen oder Vorgehensweisen hin, die zu Schäden an Ausrüstungskomponenten oder anderen Gegenständen oder zum zeitweisen Ausfall wichtiger Komponenten in der Arbeitsumgebung führen können. Hinweise am Produkt Die folgenden Hinweise können sich am Produkt befinden: **GEFAHR** -- Wenn Sie diesen Begriff lesen, besteht ein unmittelbares Verletzungsrisiko.

WARNUNG -- Wenn Sie diesen Begriff lesen, besteht ein mittelbares Verletzungsrisiko. **VORSICHT** -- Es besteht ein Risiko für Objekte in der Umgebung, den Mixer selbst oder andere Ausrüstungskomponenten. **KAYENNE** -- Installation & Service Manual 19 Safety Summary Symbole am Produkt Die folgenden Symbole können sich am Produkt befinden: Weist auf eine gefährliche Hochspannung im Gerätegehäuse hin, die stark genug sein kann, um eine Stromschlaggefahr darzustellen. Weist darauf hin, dass der Benutzer, Bediener oder Servicetechniker wichtige Bedienungs-, Wartungs- oder Serviceanweisungen in den Produkthandbüchern lesen sollte. Dies ist eine Aufforderung, beim Wechsel von Sicherungen auf deren Nennwert zu achten. Die im Text angegebene Sicherung muss durch eine Sicherung ersetzt werden, die die angegebenen Nennwerte besitzt. Weist auf eine Schutzerdungsklemme hin, die mit dem Erdungskontakt verbunden werden muss, bevor weitere Ausrüstungskomponenten angeschlossen werden. Weist auf eine externe Schutzerdungsklemme hin, die als Ergänzung zu einem internen Erdungskontakt an die Erde angeschlossen werden kann. Weist darauf hin, dass es statisch empfindliche Komponenten gibt, die durch eine elektrostatische Entladung beschädigt werden können. Verwenden Sie antistatische Prozeduren, Ausrüstung und Oberflächen während der Wartung. Warnungen Die folgenden Warnungen weisen auf Bedingungen oder Vorgehensweisen hin, die Verletzungs- oder Lebensgefahr bergen: Gefährliche Spannungen oder Ströme -- Schalten Sie den Strom ab, und entfernen Sie ggf. die Batterie, bevor sie Schutzabdeckungen abnehmen, löten oder Komponenten austauschen. Servicearbeiten nicht alleine ausführen -- Führen Sie interne Servicearbeiten nur aus, wenn eine weitere Person anwesend ist, die erste Hilfe leisten und Wiederbelebungsmaßnahmen einleiten kann. Schmuck abnehmen -- Legen Sie vor Servicearbeiten Schmuck wie Ringe, Uhren und andere metallische Objekte ab. 20 **KAYENNE** -- Installation & Service Manual Safety Summary Keine offen liegenden Leiter berühren -- Berühren Sie bei eingeschalteter Stromzufuhr keine offen liegenden Leitungen, Komponenten oder Schaltungen.

Richtiges Netzkabel verwenden -- Verwenden Sie nur das mitgelieferte Netzkabel oder ein Netzkabel, das den Spezifikationen für dieses Produkt entspricht. Gerät erden -- Schließen Sie den Erdleiter des Netzkabels an den Erdungskontakt an. Gerät nur mit angebrachten Abdeckungen und Gehäuseseiten betreiben -- Schalten Sie dieses Gerät nicht ein, wenn die Abdeckungen oder Gehäuseseiten entfernt wurden. Richtige Sicherung verwenden -- Verwenden Sie nur Sicherungen, deren Typ und Nennwert den Spezifikationen für dieses Produkt entsprechen. Gerät nur in trockener Umgebung verwenden -- Betreiben Sie das Gerät nicht in nassen oder feuchten Umgebungen. Gerät nur verwenden, wenn keine Explosionsgefahr besteht -- Verwenden Sie dieses Produkt nur in Umgebungen, in denen keinerlei Explosionsgefahr besteht. Hohe Kriechströme -- Das Gerät muss vor dem Einschalten unbedingt geerdet werden. Doppelte Spannungsversorgung kann vorhanden sein -- Schließen Sie die beiden Anschlußkabel an getrennte Stromkreise an. Vor Servicearbeiten sind beide Anschlußkabel vom Netz zu trennen. Zweipolige, neutrale Sicherung -- Schalten Sie den Netzstrom ab, bevor Sie mit den Servicearbeiten beginnen. Fassen Sie das Gerät beim Transport richtig an -- Halten Sie das Gerät beim Transport nicht an Türen oder anderen beweglichen Teilen fest. Gefahr durch mechanische Teile -- Warten Sie, bis der Lüfter vollständig zum Halt gekommen ist, bevor Sie mit den Servicearbeiten beginnen. Vorsicht Die folgenden Vorsichtshinweise weisen auf Bedingungen oder Vorgehensweisen hin, die zu Schäden an Ausrüstungskomponenten oder anderen Gegenständen führen können: Gerät nicht öffnen -- Durch das unbefugte Öffnen wird die Garantie ungültig. Richtige Spannungsquelle verwenden -- Betreiben Sie das Gerät nicht an einer Spannungsquelle, die eine höhere Spannung liefert als in den Spezifikationen für dieses Produkt angegeben. Gerät ausreichend belüften -- Um eine Überhitzung des Geräts zu vermeiden, müssen die Ausrüstungskomponenten entsprechend den Installationsanweisungen belüftet werden.

Legen Sie kein Papier unter das Gerät. Es könnte die Belüftung behindern.



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Platzieren Sie das Gerät auf einer ebenen Oberfläche. Antistatische Vorkehrungen treffen -- Es gibt statisch empfindliche Komponenten, die durch eine elektrostatische Entladung beschädigt werden können. Verwenden Sie antistatische Prozeduren, Ausrüstung und Oberflächen während der Wartung. CF-Karte nicht mit einem PC verwenden -- Die CF-Karte ist speziell formatiert. Die auf der CF-Karte gespeicherte Software könnte gelöscht werden. Gerät nicht bei eventuellem Ausrüstungsfehler betreiben -- Wenn Sie einen Produktschaden oder Ausrüstungsfehler vermuten, lassen Sie die Komponente von einem qualifizierten Servicetechniker untersuchen. Kabel richtig verlegen -- Verlegen Sie Netzkabel und andere Kabel so, dass Sie nicht beschädigt werden. Stützen Sie schwere Kabelbündel ordnungsgemäß ab, damit die Anschlüsse nicht beschädigt werden. Richtige Netzkabel verwenden -- Wenn Netzkabel mitgeliefert wurden, erfüllen diese alle nationalen elektrischen Normen. Der Betrieb dieses Geräts mit Spannungen über 130 V AC erfordert Netzkabel, die NEMA-Konfigurationen entsprechen. Wenn internationale Netzkabel mitgeliefert wurden, sind diese für das Verwendungsland zugelassen. Richtige Ersatzbatterie verwenden -- Dieses Gerät enthält eine Batterie. Um die Explosionsgefahr zu verringern, prüfen Sie die Polarität und tauschen die Batterie nur gegen eine Batterie desselben Typs oder eines gleichwertigen, vom Hersteller empfohlenen Typs aus.

Entsorgen Sie gebrauchte Batterien entsprechend den Anweisungen des Batterieherstellers. Das Gerät enthält keine Teile, die vom Benutzer gewartet werden können. Wenden Sie sich bei Problemen bitte an den nächsten Händler. 22 KAYENNE -- Installation & Service Manual Safety Summary Consignes de sécurité

Il est recommandé de lire, de bien comprendre et surtout de respecter les informations relatives à la sécurité qui sont exposées ci-après, notamment les consignes destinées à prévenir les risques d'incendie, les décharges électriques et les blessures aux personnes. Les avertissements complémentaires, qui ne sont pas nécessairement repris ci-dessous, mais présents dans toutes les sections du manuel, sont également à prendre en considération. AVERTISSEMENT Toutes les instructions présentes dans ce manuel qui concernent l'ouverture des capots ou des logements de cet équipement sont destinées exclusivement à des membres qualifiés du personnel de maintenance. Afin de diminuer les risques de décharges électriques, ne procédez à aucune intervention d'entretien autre que celles contenues dans le manuel de l'utilisateur, à moins que vous ne soyez habilité pour le faire. Consignes et symboles de sécurité Termes utilisés dans ce manuel Les consignes de sécurité présentées dans ce manuel peuvent apparaître sous les formes suivantes: AVERTISSEMENT Les avertissements signalent des conditions ou des pratiques susceptibles d'occasionner des blessures graves, voire même fatales. ATTENTION Les mises en garde signalent des conditions ou des pratiques susceptibles d'occasionner un endommagement à l'équipement ou aux installations, ou de rendre l'équipement temporairement non opérationnel, ce qui peut porter préjudice à vos activités. Signalétique apposée sur le produit La signalétique suivante peut être apposée sur le produit:

DANGER -- risque de danger imminent pour l'utilisateur.

AVERTISSEMENT -- Risque de danger non imminent pour l'utilisateur. MISE EN GARDE -- Risque d'endommagement du produit, des installations ou des autres équipements. KAYENNE -- Installation & Service Manual Safety Summary Symboles apposés sur le produit Les symboles suivants peuvent être apposés sur le produit: Signale la présence d'une tension élevée et dangereuse dans le boîtier de l'équipement; cette tension peut être suffisante pour constituer un risque de décharge électrique. Signale que l'utilisateur, l'opérateur ou le technicien de maintenance doit faire référence au(x) manuel(s) pour prendre connaissance des instructions d'utilisation, de maintenance ou d'entretien. Il s'agit d'une invite à prendre note du calibre du fusible lors du remplacement de ce dernier.

Le fusible auquel il est fait référence dans le texte doit être remplacé par un fusible du même calibre. Identifie une borne de protection de mise à la masse qui doit être raccordée correctement avant de procéder au raccordement des autres équipements. Identifie une borne de protection de mise à la masse qui peut être connectée en tant que borne de mise à la masse supplémentaire. Signale la présence de composants sensibles à l'électricité statique et qui sont susceptibles d'être endommagés par une décharge électrostatique. Utilisez des procédures, des équipements et des surfaces antistatiques durant les interventions d'entretien.

Avertissements Les avertissements suivants signalent des conditions ou des pratiques susceptibles d'occasionner des blessures graves, voire même fatales: Présence possible de tensions ou de courants dangereux -- Mettez hors tension, débranchez et retirez la pile (le cas échéant) avant de déposer les couvercles de protection, de défaire une soudure ou de remplacer des composants. Ne procédez pas seul à une intervention d'entretien -- Ne réalisez pas une intervention d'entretien interne sur ce produit si une personne n'est pas présente pour fournir les premiers soins en cas d'accident. 24 KAYENNE -- Installation & Service Manual Safety Summary Retirez tous vos bijoux -- Avant de procéder à une intervention d'entretien, retirez tous vos bijoux, notamment les bagues, la montre ou tout autre objet métallique. Évitez tout contact avec les circuits exposés -- Évitez tout contact avec les connexions, les composants ou les circuits exposés s'ils sont sous tension. Utilisez le cordon d'alimentation approprié -- Utilisez exclusivement le cordon d'alimentation fourni avec ce produit ou spécifié pour ce produit.



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Raccordez le produit à la masse -- Raccordez le conducteur de masse du cordon d'alimentation à la borne de masse de la prise secteur. Utilisez le produit lorsque les couvercles et les capots sont en place -- N'utilisez pas ce produit si les couvercles et les capots sont déposés. Utilisez le bon fusible -- Utilisez exclusivement un fusible du type et du calibre spécifiés pour ce produit. Utilisez ce produit exclusivement dans un environnement sec -- N'utilisez pas ce produit dans un environnement humide. Utilisez ce produit exclusivement dans un environnement non explosible -- N'utilisez pas ce produit dans un environnement dont l'atmosphère est explosible.

Présence possible de courants de fuite -- Un raccordement à la masse est indis- pensable avant la mise sous tension. Deux alimentations peuvent être présentes dans l'équipement -- Assurez vous que chaque cordon d'alimentation est raccordé à des circuits de terre séparés. Débranchez les deux cordons d'alimentation avant toute intervention. Fusion neutre bipolaire -- Débranchez l'alimentation principale avant de pro- céder à une intervention d'entretien.

Utilisez les points de levage appropriés -- Ne pas utiliser les verrous de la porte pour lever ou déplacer l'équipement. Évitez les dangers mécaniques -- Laissez le ventilateur s'arrêter avant de pro- céder à une intervention d'entretien. Mises en garde Les mises en garde suivantes signalent les conditions et les pratiques susceptibles d'occasionner des endommagements à l'équipement et aux installations: N'ouvrez pas l'appareil -- Toute ouverture prohibée de l'appareil aura pour effet d'annuler la garantie. Utilisez la source d'alimentation adéquate -- Ne branchez pas ce produit à une source d'alimentation qui utilise une tension supérieure à la tension nominale spécifiée pour ce produit. KAYENNE -- Installation & Service Manual25 Safety Summary Assurez une ventilation adéquate -- Pour éviter toute surchauffe du produit, assurez une ventilation de l'équipement conformément aux instructions d'installation. Ne déposez aucun document sous l'appareil -- ils peuvent gêner la ventilation.

Placez l'appareil sur une surface plane. Utilisez des procédures antistatiques - Les composants sensibles à l'électricité statique présents dans l'équipement sont susceptibles d'être endommagés par une décharge électrostatique. Utilisez des procédures, des équipements et des surfaces antistatiques durant les interventions d'entretien. N'utilisez pas la carte CF avec un PC -- La carte CF a été spécialement formatée. Le logiciel enregistré sur la carte CF risque d'être effacé.

N'utilisez pas l'équipement si un dysfonctionnement est suspecté -- Si vous sus- pectez un dysfonctionnement du produit, faites inspecter celui-ci par un membre qualifié du personnel d'entretien. Acheminez les câbles correctement -- Acheminez les câbles d'alimentation et les autres câbles de manière à ce qu'ils ne risquent pas d'être endommagés. Supportez correctement les enroulements de câbles afin de ne pas endommager les connecteurs. Utilisez les cordons d'alimentation adéquats -- Les cordons d'alimentation de cet équipement, s'ils sont fournis, satisfont aux exigences de toutes les réglementations régionales.

L'utilisation de cet équipement à des tensions dépassant les 130 V en c.

a. requiert des cordons d'alimentation qui satisfont aux exigences des configurations NEMA. Les cordons internationaux, s'ils sont fournis, ont reçu l'approbation du pays dans lequel l'équipement est utilisé. Utilisez une pile de remplacement adéquate -- Ce produit renferme une pile. Pour réduire le risque d'explosion, vérifiez la polarité et ne remplacez la pile que par une pile du même type, recommandée par le fabricant. Mettez les piles usagées au rebut conformément aux instructions du fabricant des piles. Cette unité ne contient aucune partie qui peut faire l'objet d'un entretien par l'utilisateur. Si un problème survient, veuillez contacter votre distributeur local. 26 KAYENNE -- Installation & Service Manual Regulatory Notices Certifications and Compliances FCC Emission Control This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial 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 harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense. Changes or modifications not expressly approved by Grass Valley Group can affect emission compliance and could void the user's authority to operate this equipment. Canadian EMC Notice of Compliance This digital apparatus does not exceed the Class A limits for radio noise emissions from digital apparatus set out in the Radio Interference Regulations of the Canadian Department of Communications. Le présent appareil numérique n'émet pas de bruits radioélectriques dépassant les limites applicables aux appareils numériques de la classe A prescrites dans le Règlement sur le brouillage radioélectrique édicté par le ministère des Communications du Canada. EN55022 Class A Warning For products that comply with Class A. In a domestic environment this product may cause radio interference in which case the user may be required to take adequate measures.

KAYENNE -- Installation & Service Manual 27 Regulatory Notices Canadian Certified Power Cords Canadian approval includes the products and power cords appropriate for use in the North America power network. All other power cords supplied are approved for the country of use. Canadian Certified AC Adapter Canadian approval includes the AC adapters appropriate for use in the North America power network.



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All other AC adapters supplied are approved for the country of use. FCC Emission Limits 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 undesirable operation. Certification This product has been evaluated for Electromagnetic Compatibility under the EN 55103-1/2 standards for Emissions and Immunity and meets the requirements for E4 environment. This product complies with Class A.

In a domestic environment this product may cause radio interference in which case the user may be required to take adequate measures. This product has been evaluated and meets the following Safety Certification Standards: Category Standard Safety ANSI / UL60950 Designed/tested for compliance with: "Standard for Safety of Information Technology Equipment - Safety Part 1: General Requirements", (ANSI/UL 60950-1, First Edition, Dated April 1, 2003, with revision through and including November 26, 2003.) "Standard for Safety for Information Technology Equipment - Safety Part 1: General Requirements", (IEC 60950-1, First Edition, 2001, Corrigendum 1:10-2002) "Standard for Safety of Information Technology Equipment - Safety Part 1: General Requirements", (CAN/CSA-C22.2 No. 60950-1-03.

First Edition Dated April 1, 2003, with revisions through and including November 26, 2003) Safety of Information Technology Equipment, including Electrical Business Equipment. Low Voltage Directive IEC 60950 CAN/CSA C22.2, No. 60950 EN60950 73/23/EEC 28 KAYENNE -- Installation & Service Manual Regulatory Notices Category Standard EMI EMC Directive 2004/108/EC via EN 55103-1 and 2 EN 55103-1 standards Designed/tested for compliance with: Audio, Video and Entertainment Lighting Control for the European Community. Electromagnetic compatibility. Product family standard for audio, video, audio-visual and entertainment lighting control apparatus for professional use. Part 1 Emissions, Environment E4 EN 55022: Class A Radiated Emissions EN 61000-3-2: Powerline Harmonic Emissions EN 61000-3-3: Voltage Fluctuations "Flicker" EN 55022: Class A Conducted Emissions Radiated Magnetic Field Emissions Peak Inrush Current Electromagnetic compatibility--Product family standard for audio, video, audio-visual and entertainment lighting control apparatus for professional use. Part 2 Immunity, Environment E4 EN 61000-4-3: Radiated RF Immunity EN 61000-4-2: Electrostatic Discharge "ESD" EN 61000-4-4: Electrical Fast Transients "EFT" EN 61000-4-11: Voltage Dips & Fluctuations EN 61000-4-5: Power Line Surge EN 61000-4-6: Conducted RF Immunity Radiated Magnetic Field Immunity CISPR Pub. 22 (1985) ICES-003 AS/NZS 3548 EN55103-2 standards US FCC Class A Canada FCC Industry Canada Australia & New Zealand: KAYENNE -- Installation & Service Manual 29 Regulatory Notices 30 KAYENNE -- Installation & Service Manual Section 1 Introduction Note For reader convenience this identical Section 1 is included at the beginning of each Kayenne manual. If you are already familiar with this material you can skip to the next section.

Overview The Grass Valley Kayenne family of multi-format digital production switchers provides powerful, ground-breaking features designed to meet the widest range of requirements for live studio, mobile, and post-production applications. Available in configurations ranging from 1.5-ME to 4.5-MEs, Kayenne systems combine features and functionality available in the current Grass Valley Kalypso, KayakHD, and XtenDD switchers along with additional capabilities previously unavailable in any video production switcher from any manufacturer. A wide variety of possible Kayenne system configurations exist to meet different customer requirements. Kayenne Video Processor Frames The Kayenne Video Processor Frame is available in two sizes. The 8-RU full size frame supports up to 4.5 ME systems. The 4-RU compact frame supports 1.5-ME through 2.

5-ME Kayenne systems (Figure 1). The number of licensed boards present in the Kayenne frame determines the number of MEs available, as well as the number of video inputs, outputs, GPIOs and Relay Tallies. Figure 1. Kayenne Video Processor Frames Kayenne 8-RU Video Processor Frame Kayenne 4-RU Video Processor Frame KAYENNE -- Installation & Service Manual 8623266_06 31 Section 1 -- Introduction Kayenne Control Surfaces A Kayenne control surface typically consists of a Control Panel, a Menu Panel with an included articulated support arm, a Panel Control Unit (PCU) frame, and optional Satellite Panels. This control surface has an innovative modular design.

Representative Kayenne control surfaces are shown in the following illustrations. Figure 2. Kayenne 4-ME 35 Control Surface 4-ME 35 Control Panel Menu Panel Menu Panel Articulated Arm Optional Device Control Module Figure 3. Kayenne 3-ME 35 Control Surface 3-ME 35 Control Panel Optional Device Control Module Menu Panel Menu Panel Articulated Arm Figure 4. Kayenne 2-ME 25 Control Surface 2-ME 25 Control Panel Menu Panel Menu Panel Articulated Arm Figure 5.

Kayenne 1-ME 15 Control Surface 1-ME 15 Control Panel Menu Panel Menu Panel Articulated Arm Panel Control Unit (PCU) 8623266_04 32 KAYENNE -- Installation & Service Manual 8623266_03 Panel Control Unit (PCU) 8623266_02 Panel Control Unit (PCU) 8623266_01 Panel Control Unit (PCU) Kayenne Control Surfaces The modular design and use of a separate PCU supports the hot-replacement of individual Control Panel components, if necessary, while the rest of the system remains operational. Multiple Suites and Control Surfaces A Kayenne system can be subdivided into two suites, if desired, each of which can have two control surfaces. Hardware resources in the Video Processor Frame can be assigned to an individual suite during configuration, essentially creating two separate switchers from one Kayenne system. A Kayenne PCU can support two control surfaces using its eight available ports. Flat or Curved Control Panel Orientation The main Kayenne Control Panel supports different physical orientations. Besides a conventional flat surface, a special support design permits a curved working surface, where the MEs progressively tilt for improved ergonomics (Figure 6). Figure 6. Curved and Flat Control Surface Installations Curved Control Panel Assembly Flat Control Panel Assembly KAYENNE -- Installation & Service Manual 8623266_36 33 Section 1 -- Introduction Control Panel Stripes The main Kayenne Control Panel is organized into from one to five Stripes. Each Stripe consists of a tray and its complement of drop-in modules. An ME Stripe has a module for Source Selection, Transition, and individual E-MEM control (Figure 7).



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