



SENTINEL SM1

VNET Monitoring Unit for Networked PA/VA Systems

EN

EN Important Safety Instructions

Terminals marked with this symbol carry electrical current of sufficient magnitude to constitute risk of electric shock.

Use only high-quality professional speaker cables with ¼" TS or twist-locking plugs pre-installed. All other installation or modification should be performed only by qualified personnel.



This symbol, wherever it appears, alerts you to the presence of uninsulated dangerous voltage inside the enclosure - voltage that may be sufficient to constitute a risk of shock.



This symbol, wherever it appears, alerts you to important operating and maintenance instructions in the accompanying literature. Please read the manual.

**Caution**

To reduce the risk of electric shock, do not remove the top cover (or the rear section). No user serviceable parts inside. Refer servicing to qualified personnel.

**Caution**

To reduce the risk of fire or electric shock, do not expose this appliance to rain and moisture. The apparatus shall not be exposed to dripping or splashing liquids and no objects filled with liquids, such as vases, shall be placed on the apparatus.

**Caution**

These service instructions 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 operation instructions. Repairs have to be performed by qualified service personnel.

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 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 are 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. Use only attachments/accessories specified by the manufacturer.



12. Use only with the 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. The apparatus shall be connected to a MAINS socket outlet with a protective earthing connection.

16. Where the MAINS plug or an appliance coupler is used as the disconnect device, the disconnect device shall remain readily operable.



17. Correct disposal of this product: This symbol indicates that this product must not be disposed of with household waste, according to the WEEE Directive (2012/19/EU) and your national law. This product should be taken

to a collection center licensed for the recycling of waste electrical and electronic equipment (EEE). The mishandling of this type of waste could have a possible negative impact on the environment and human health due to potentially hazardous substances that are generally associated with EEE. At the same time, your cooperation in the correct disposal of this product will contribute to the efficient use of natural resources. For more information about where you can take your waste equipment for recycling, please contact your local city office, or your household waste collection service.

18. Do not install in a confined space, such as a book case or similar unit.

19. Do not place naked flame sources, such as lighted candles, on the apparatus.

20. Please keep the environmental aspects of battery disposal in mind. Batteries must be disposed of at a battery collection point.

21. Use this apparatus in tropical and/or moderate climates.

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ES Instrucciones de seguridad

Las terminales marcadas con este símbolo transportan corriente eléctrica de magnitud suficiente como para constituir un riesgo de descarga eléctrica. Utilice solo cables de altavoz profesionales y de alta calidad con conectores TS de 6,3 mm o de bayoneta prefijados. Cualquier otra instalación o modificación debe ser realizada únicamente por un técnico cualificado.



Este símbolo, siempre que aparece, le advierte de la presencia de voltaje peligroso sin aislar dentro de la caja; este voltaje puede ser suficiente para constituir un riesgo de descarga.



Este símbolo, siempre que aparece, le advierte sobre instrucciones operativas y de mantenimiento que aparecen en la documentación adjunta. Por favor, lea el manual.

**Atención**

Para reducir el riesgo de descarga eléctrica, no quite la tapa (o la parte posterior). No hay piezas en el interior del equipo que puedan ser reparadas por el usuario. Si es necesario, póngase en contacto con personal cualificado.

**Atención**

Para reducir el riesgo de incendio o descarga eléctrica, no exponga este aparato a la lluvia, humedad o alguna otra fuente que pueda salpicar o derramar algún líquido sobre el aparato. No coloque ningún tipo de recipiente para líquidos sobre el aparato.

**Atención**

Las instrucciones de servicio deben llevarlas a cabo exclusivamente personal cualificado. Para evitar el riesgo de una descarga eléctrica, no realice reparaciones que no se encuentren descritas en el manual de operaciones. Las reparaciones deben ser realizadas exclusivamente por personal cualificado.

1. Lea las instrucciones.
2. Conserve estas instrucciones.
3. Preste atención a todas las advertencias.
4. Siga todas las instrucciones.
5. No use este aparato cerca del agua.
6. Limpie este aparato con un paño seco.
7. No bloquee las aberturas de ventilación. Instale el equipo de acuerdo con las instrucciones del fabricante.
8. No instale este equipo cerca de fuentes de calor tales como radiadores, acumuladores de calor, estufas u otros aparatos (incluyendo amplificadores) que puedan producir calor.

9. No elimine o deshabilite nunca la conexión a tierra del aparato o del cable de alimentación de corriente. Un enchufe polarizado tiene dos polos, uno de los cuales tiene un contacto más ancho que el otro. Una clavija con puesta a tierra dispone de tres contactos: dos polos y la puesta a tierra. El contacto ancho y el tercer contacto, respectivamente, son los que garantizan una mayor seguridad. Si el enchufe suministrado con el equipo no concuerda con la toma de corriente, consulte con un electricista para cambiar la toma de corriente obsoleta.

10. Coloque el cable de suministro de energía de manera que no pueda ser pisado y que esté protegido de objetos afilados. Asegúrese de que el cable de suministro de energía esté protegido, especialmente en la zona de la clavija y en el punto donde sale del aparato.

11. Use únicamente los dispositivos o accesorios especificados por el fabricante.



12. Use únicamente la carretilla, plataforma, trípode, soporte o mesa especificados por el fabricante o suministrados junto con el equipo. Al transportar el equipo, tenga cuidado para evitar daños y caídas al tropezar con algún obstáculo.

13. Desenchufe el equipo durante tormentas o si no va a utilizarlo durante un periodo largo.

14. Confíe las reparaciones únicamente a servicios técnicos cualificados. La unidad requiere mantenimiento siempre que haya sufrido algún daño, si el cable de suministro de energía o el enchufe presentaran daños, se hubiera derramado un líquido o hubieran caído objetos dentro del equipo, si el aparato hubiera estado expuesto a la humedad o la lluvia, si ha dejado de funcionar de manera normal o si ha sufrido algún golpe o caída.

15. Al conectar la unidad a la toma de corriente eléctrica asegúrese de que la conexión disponga de una unión a tierra.

16. Si el enchufe o conector de red sirve como único medio de desconexión, éste debe ser accesible fácilmente.



17. Cómo debe deshacerse de este aparato: Este símbolo indica que este aparato no debe ser tratado como basura orgánica, según lo indicado en la Directiva WEEE (2012/19/EU) y a las normativas aplicables en su país.

En lugar de ello deberá llevarlo al punto limpio más cercano para el reciclaje de sus elementos eléctricos / electrónicos (EEE). Al hacer esto estará ayudando a prevenir las posibles consecuencias negativas para el medio ambiente y la salud que podrían ser provocadas por una gestión inadecuada de este tipo de aparatos. Además, el reciclaje de materiales ayudará a conservar los recursos naturales. Para más información acerca del reciclaje de este aparato, póngase en contacto con el Ayuntamiento de su ciudad o con el punto limpio local.

18. No instale esta unidad en un espacio muy reducido, tal como encastrada en una librería o similar.

19. No coloque objetos con llama, como una vela encendida, sobre este aparato.

20. Tenga presentes todas las advertencias relativas al reciclaje y correcta eliminación de las pilas. Las pilas deben ser siempre eliminadas en un punto limpio y nunca con el resto de la basura orgánica.

21. Use este aparato en rangos de temperatura moderados y/o tropicales.

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EN

ES

FR Consignes de sécurité



Les points repérés par ce symbole portent une tension électrique suffisante pour constituer un risque d'électrocution.

Utilisez uniquement des câbles d'enceintes professionnels de haute qualité avec fiches Jack mono 6,35 mm ou fiches à verrouillages déjà installées. Toute autre installation ou modification doit être effectuée uniquement par un personnel qualifié.

Ce symbole avertit de la présence d'une tension dangereuse et non isolée à l'intérieur de l'appareil - elle peut provoquer des chocs électriques.

Attention
Ce symbole signale les consignes d'utilisation et d'entre ! Tien importantes dans la documentation fournie. Lisez les consignes de sécurité du manuel d'utilisation de l'appareil.

Attention
Pour éviter tout risque de choc électrique, ne pas ouvrir le capot de l'appareil ni démonter le panneau arrière. L'intérieur de l'appareil ne possède aucun élément réparable par l'utilisateur. Laisser toute réparation à un professionnel qualifié.

Attention
Pour réduire les risques de feu et de choc électrique, n'exposez pas cet appareil à la pluie, à la moisissure, aux gouttes ou aux éclaboussures. Ne posez pas de récipient contenant un liquide sur l'appareil (un vase par exemple).

Attention
Ces consignes de sécurité et d'entretien sont destinées à un personnel qualifié. Pour éviter tout risque de choc électrique, n'effectuez aucune réparation sur l'appareil qui ne soit décrite par le manuel d'utilisation. Les éventuelles réparations doivent être effectuées uniquement par un technicien spécialisé.

1. Lisez ces consignes.
2. Conservez ces consignes.
3. Respectez tous les avertissements.
4. Respectez toutes les consignes d'utilisation.
5. N'utilisez jamais l'appareil à proximité d'un liquide.
6. Nettoyez l'appareil avec un chiffon sec.
7. Veillez à ne pas empêcher la bonne ventilation de l'appareil via ses ouïes de ventilation. Respectez les consignes du fabricant concernant l'installation de l'appareil.
8. Ne placez pas l'appareil à proximité d'une source de chaleur telle qu'un chauffage, une cuisinière ou tout appareil dégageant de la chaleur (y compris un ampli de puissance).

9. Ne supprimez jamais la sécurité des prises bipolaires ou des prises terre. Les prises bipolaires possèdent deux contacts de largeur différente. Le plus large est le contact de sécurité. Les prises terre possèdent deux contacts plus une mise à la terre servant de sécurité. Si la prise du bloc d'alimentation ou du cordon d'alimentation fourni ne correspond pas à celles de votre installation électrique, faites appel à un électricien pour effectuer le changement de prise.

10. Installez le cordon d'alimentation de telle façon que personne ne puisse marcher dessus et qu'il soit protégé d'arêtes coupantes. Assurez-vous que le cordon d'alimentation est suffisamment protégé, notamment au niveau de sa prise électrique et de l'endroit où il est relié à l'appareil; cela est également valable pour une éventuelle rallonge électrique.

11. Utilisez exclusivement des accessoires et des appareils supplémentaires recommandés par le fabricant.



12. Utilisez exclusivement des chariots, des diables, des présentoirs, des pieds et des surfaces de travail recommandés par le fabricant ou livrés avec le produit.

Déplacez précautionneusement tout chariot ou diable chargé pour éviter d'éventuelles blessures en cas de chute.

13. Débranchez l'appareil de la tension secteur en cas d'orage ou si l'appareil reste inutilisé pendant une longue période de temps.

14. Les travaux d'entretien de l'appareil doivent être effectués uniquement par du personnel qualifié. Aucun entretien n'est nécessaire sauf si l'appareil est endommagé de quelque façon que ce soit (dommages sur le cordon d'alimentation ou la prise par exemple), si un liquide ou un objet a pénétré à l'intérieur du châssis, si l'appareil a été exposé à la pluie ou à l'humidité, s'il ne fonctionne pas correctement ou à la suite d'une chute.

15. L'appareil doit être connecté à une prise secteur dotée d'une protection par mise à la terre.

16. La prise électrique ou la prise IEC de tout appareil dénué de bouton marche/arrêt doit rester accessible en permanence.



17. Mise au rebut appropriée de ce produit: Ce symbole indique qu'en accord avec la directive DEEE (2012/19/EU) et les lois en vigueur dans votre pays, ce produit ne doit pas être jeté avec les déchets ménagers. Ce produit doit être

déposé dans un point de collecte agréé pour le recyclage des déchets d'équipements électriques et électroniques (EEE). Une mauvaise manipulation de ce type de déchets pourrait avoir un impact négatif sur l'environnement et la santé à cause des substances potentiellement dangereuses généralement associées à ces équipements. En même temps, votre coopération dans la mise au rebut de ce produit contribuera à l'utilisation efficace des ressources naturelles. Pour plus d'informations sur l'endroit où vous pouvez déposer vos déchets

d'équipements pour le recyclage, veuillez contacter votre mairie ou votre centre local de collecte des déchets.

18. N'installez pas l'appareil dans un espace confiné tel qu'une bibliothèque ou meuble similaire.

19. Ne placez jamais d'objets enflammés, tels que des bougies allumées, sur l'appareil.

20. Gardez à l'esprit l'impact environnemental lorsque vous mettez des piles au rebut. Les piles usées doivent être déposées dans un point de collecte adapté.

21. Utilisez l'appareil dans un climat tropical et/ou modéré.

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DE Wichtige Sicherheitshinweise



Vorsicht
Die mit dem Symbol markierten Anschlüsse führen so viel Spannung, dass die Gefahr eines Stromschlags besteht.

Verwenden Sie nur hochwertige, professionelle Lautsprecherkabel mit vorinstallierten 6,35 mm MONO-Klinkensteckern oder Lautsprecherstecker mit Drehverriegelung. Alle anderen Installationen oder Modifikationen sollten nur von qualifiziertem Fachpersonal ausgeführt werden.

Achtung
Um eine Gefährdung durch Stromschlag auszuschließen, darf die Geräteabdeckung bzw. Geräterückwand nicht abgenommen werden. Im Innern des Geräts befinden sich keine vom Benutzer reparierbaren Teile. Reparaturarbeiten dürfen nur von qualifiziertem Personal ausgeführt werden.

Achtung
Um eine Gefährdung durch Feuer bzw. Stromschlag auszuschließen, darf dieses Gerät weder Regen oder Feuchtigkeit ausgesetzt werden noch sollten Spritzwasser oder tropfende Flüssigkeiten in das Gerät gelangen können. Stellen Sie keine mit Flüssigkeit gefüllten Gegenstände, wie z. B. Vasen, auf das Gerät.

Achtung
Die Service-Hinweise sind nur durch qualifiziertes Personal zu befolgen. Um eine Gefährdung durch Stromschlag zu vermeiden, führen Sie bitte keinerlei Reparaturen an dem Gerät durch, die nicht in der Bedienungsanleitung beschrieben sind. Reparaturen sind nur von qualifiziertem Fachpersonal durchzuführen.

1. Lesen Sie diese Hinweise.
2. Bewahren Sie diese Hinweise auf.
3. Beachten Sie alle Warnhinweise.
4. Befolgen Sie alle Bedienungshinweise.
5. Betreiben Sie das Gerät nicht in der Nähe von Wasser.
6. Reinigen Sie das Gerät mit einem trockenen Tuch.
7. Blockieren Sie nicht die Belüftungsschlitze. Beachten Sie beim Einbau des Gerätes die Herstellerhinweise.
8. Stellen Sie das Gerät nicht in der Nähe von Wärmequellen auf. Solche Wärmequellen sind z. B. Heizkörper, Herde oder andere Wärme erzeugende Geräte (auch Verstärker).
9. Entfernen Sie in keinem Fall die Sicherheitsvorrichtung von Zweipol- oder geerdeten Steckern. Ein Zweipolstecker hat zwei unterschiedlich breite Steckkontakte. Ein geerdeter Stecker hat zwei Steckkontakte und einen dritten Erdungskontakt. Der breitere Steckkontakt oder der zusätzliche

Erdungskontakt dient Ihrer Sicherheit. Falls das mitgelieferte Steckerformat nicht zu Ihrer Steckdose passt, wenden Sie sich bitte an einen Elektriker, damit die Steckdose entsprechend ausgetauscht wird.

10. Verlegen Sie das Netzkabel so, dass es vor Tritten und scharfen Kanten geschützt ist und nicht beschädigt werden kann. Achten Sie bitte insbesondere im Bereich der Stecker, Verlängerungskabel und an der Stelle, an der das Netzkabel das Gerät verlässt, auf ausreichenden Schutz.

11. Das Gerät muss jederzeit mit intaktem Schutzleiter an das Stromnetz angeschlossen sein.

12. Sollte der Hauptnetzstecker oder eine Gerätesteckdose die Funktionseinheit zum Abschalten sein, muss diese immer zugänglich sein.

13. Verwenden Sie nur Zusatzgeräte/Zubehörteile, die laut Hersteller geeignet sind.



14. Verwenden Sie nur Wagen, Standvorrichtungen, Stative, Halter oder Tische, die vom Hersteller benannt oder im Lieferumfang des Geräts enthalten sind. Falls Sie einen

Wagen benutzen, seien Sie vorsichtig beim Bewegen der Wagen-Gerätkombination, um Verletzungen durch Stolpern zu vermeiden.

15. Ziehen Sie den Netzstecker bei Gewitter oder wenn Sie das Gerät längere Zeit nicht benutzen.

16. Lassen Sie alle Wartungsarbeiten nur von qualifiziertem Service-Personal ausführen. Eine Wartung ist notwendig, wenn das Gerät in irgendeiner Weise beschädigt wurde (z. B. Beschädigung des Netzkabels oder Steckers), Gegenstände oder Flüssigkeit in das Geräteinnere gelangt sind, das Gerät Regen oder Feuchtigkeit ausgesetzt wurde, das Gerät nicht ordnungsgemäß funktioniert oder auf den Boden gefallen ist.



17. Korrekte Entsorgung dieses Produkts: Dieses Symbol weist darauf hin, das Produkt entsprechend der WEEE Richtlinie (2012/19/EU) und der jeweiligen nationalen Gesetze nicht zusammen mit Ihren

Haushaltsabfällen zu entsorgen. Dieses Produkt sollte bei einer autorisierten Sammelstelle für Recycling elektrischer und elektronischer Geräte (EEE) abgegeben werden. Wegen bedenklicher Substanzen, die generell mit elektrischen und elektronischen Geräten in Verbindung stehen, könnte eine unsachgemäße Behandlung dieser Abfallart eine negative Auswirkung auf Umwelt und Gesundheit haben. Gleichzeitig gewährleistet Ihr Beitrag zur richtigen Entsorgung dieses Produkts die effektive Nutzung natürlicher Ressourcen. Für weitere Informationen zur Entsorgung Ihrer Geräte bei einer Recycling-Stelle nehmen Sie bitte Kontakt zum zuständigen städtischen Büro, Entsorgungsamt oder zu Ihrem Haushaltsabfallentsorger auf.

18. Installieren Sie das Gerät nicht in einer beengten Umgebung, zum Beispiel Bücherregal oder ähnliches.

19. Stellen Sie keine Gegenstände mit offenen Flammen, etwa brennende Kerzen, auf das Gerät.

20. Beachten Sie bei der Entsorgung von Batterien den Umweltschutz-Aspekt. Batterien müssen bei einer Batterie-Sammelstelle entsorgt werden.

21. Verwenden Sie das Gerät in tropischen und/oder gemäßigten Klimazonen.

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PT Instruções de Segurança Importantes



Aviso!

Terminais marcados com o símbolo carregam corrente elétrica de magnitude suficiente para constituir um risco de choque elétrico. Use apenas cabos de alto-falantes de alta qualidade com plugues TS de ¼" ou plugues com trava de torção pré-instalados. Todas as outras instalações e modificações devem ser efetuadas por pessoas qualificadas.



Este símbolo, onde quer que o encontre, alerta-o para a leitura das instruções de manuseamento que acompanham o equipamento. Por favor leia o manual de instruções.



Atenção

De forma a diminuir o risco de choque elétrico, não remover a cobertura (ou a secção de trás). Não existem peças substituíveis por parte do utilizador no seu interior. Para esse efeito recorrer a um técnico qualificado.



Atenção

Para reduzir o risco de incêndios ou choques elétricos o aparelho não deve ser exposto à chuva nem à humidade. Além disso, não deve ser sujeito a salpicos, nem devem ser colocados em cima do aparelho objectos contendo líquidos, tais como jarras.



Atenção

Estas instruções de operação devem ser utilizadas, em exclusivo, por técnicos de assistência qualificados. Para evitar choques elétricos não proceda a reparações ou intervenções, que não as indicadas nas instruções de operação, salvo se possuir as qualificações necessárias. Para evitar choques elétricos não proceda a reparações ou intervenções, que não as indicadas nas instruções de operação. Só o deverá fazer se possuir as qualificações necessárias.

1. Leia estas instruções.
2. Guarde estas instruções.
3. Preste atenção a todos os avisos.
4. Siga todas as instruções.
5. Não utilize este dispositivo perto de água.
6. Limpe apenas com um pano seco.
7. Não obstrua as entradas de ventilação. Instale de acordo com as instruções do fabricante.
8. Não instale perto de quaisquer fontes de calor tais como radiadores, bocas de ar quente, fogões de sala ou outros aparelhos (incluindo amplificadores) que produzam calor.
9. Não anule o objectivo de segurança das fichas polarizadas ou do tipo de ligação à terra. Uma ficha polarizada dispõe de duas palhetas sendo uma mais larga do que a outra. Uma ficha do tipo ligação à terra dispõe

de duas palhetas e um terceiro dente de ligação à terra. A palheta larga ou o terceiro dente são fornecidos para sua segurança. Se a ficha fornecida não encaixar na sua tomada, consulte um electricista para a substituição da tomada obsoleta.

10. Proteja o cabo de alimentação de pisadelas ou apertos, especialmente nas fichas, extensões, e no local de saída da unidade. Certifique-se de que o cabo eléctrico está protegido. Verifique particularmente nas fichas, nos receptáculos e no ponto em que o cabo sai do aparelho.

11. O aparelho tem de estar sempre conectado à rede eléctrica com o condutor de protecção intacto.

12. Se utilizar uma ficha de rede principal ou uma tomada de aparelhos para desligar a unidade de funcionamento, esta deve estar sempre acessível.

13. Utilize apenas ligações/acessórios especificados pelo fabricante.



14. Utilize apenas com o carrinho, estrutura, tripé, suporte, ou mesa especificados pelo fabricante ou vendidos com o dispositivo. Quando utilizar um carrinho, tenha cuidado ao

mover o conjunto carrinho/dispositivo para evitar danos provocados pela terpidação.

15. Desligue este dispositivo durante as trovoadas ou quando não for utilizado durante longos períodos de tempo.

16. Qualquer tipo de reparação deve ser sempre efectuado por pessoal qualificado. É necessária uma reparação sempre que a unidade tiver sido de alguma forma danificada, como por exemplo: no caso do cabo de alimentação ou ficha se encontrarem danificados; na eventualidade de líquido ter sido derramado ou objectos terem caído para dentro do dispositivo; no caso da unidade ter estado exposta à chuva ou à humidade; se esta não funcionar normalmente, ou se tiver caído.



17. Correcta eliminação deste produto: este símbolo indica que o produto não deve ser eliminado juntamente com os resíduos domésticos, segundo a Directiva REEE (2012/19/EU) e a legislação nacional. Este produto deverá

ser levado para um centro de recolha licenciado para a reciclagem de resíduos de equipamentos eléctricos e electrónicos (EEE). O tratamento incorrecto deste tipo de resíduos pode ter um eventual impacto negativo no ambiente e na saúde humana devido a substâncias potencialmente perigosas que estão geralmente associadas aos EEE. Ao mesmo tempo, a sua colaboração para a eliminação correcta deste produto irá contribuir para a utilização eficiente dos recursos naturais. Para mais informação acerca dos locais onde poderá deixar o seu equipamento usado para reciclagem, é favor contactar os serviços municipais locais, a entidade de gestão de resíduos ou os serviços de recolha de resíduos domésticos.

18. Não instale em lugares confinados, tais como estantes ou unidades similares.

19. Não coloque fontes de chama, tais como velas acesas, sobre o aparelho.

20. Favor, obedecer os aspectos ambientais de descarte de bateria. Baterias devem ser descartadas em um ponto de coletas de baterias.

21. Use este aparelho em climas tropicais e/ou moderados.

LEGAL RENUNCIANTE

O MUSIC Group não se responsabiliza por perda alguma que possa ser sofrida por qualquer pessoa que dependa, seja de maneira completa ou parcial, de qualquer descrição, fotografia, ou declaração aqui contidas. Dados técnicos, aparências e outras informações estão sujeitas a modificações sem aviso prévio.

Todas as marcas são propriedade de seus respectivos donos. MIDAS, KLARK TEKNIK, LAB GRUPPEN, LAKE, TANNOY, TURBOSOUND, TC ELECTRONIC, TC HELICON, BEHRINGER, BUGERA, COOLAUDIO e EUROCOM são marcas ou marcas registradas do MUSIC Group IP Ltd. © MUSIC Group IP Ltd. 2017 Todos direitos reservados.

GARANTIA LIMITADA

Para obter os termos de garantia aplicáveis e condições e informações adicionais a respeito da garantia limitada do MUSIC Group, favor verificar detalhes na íntegra através do website music-group.com/warranty.

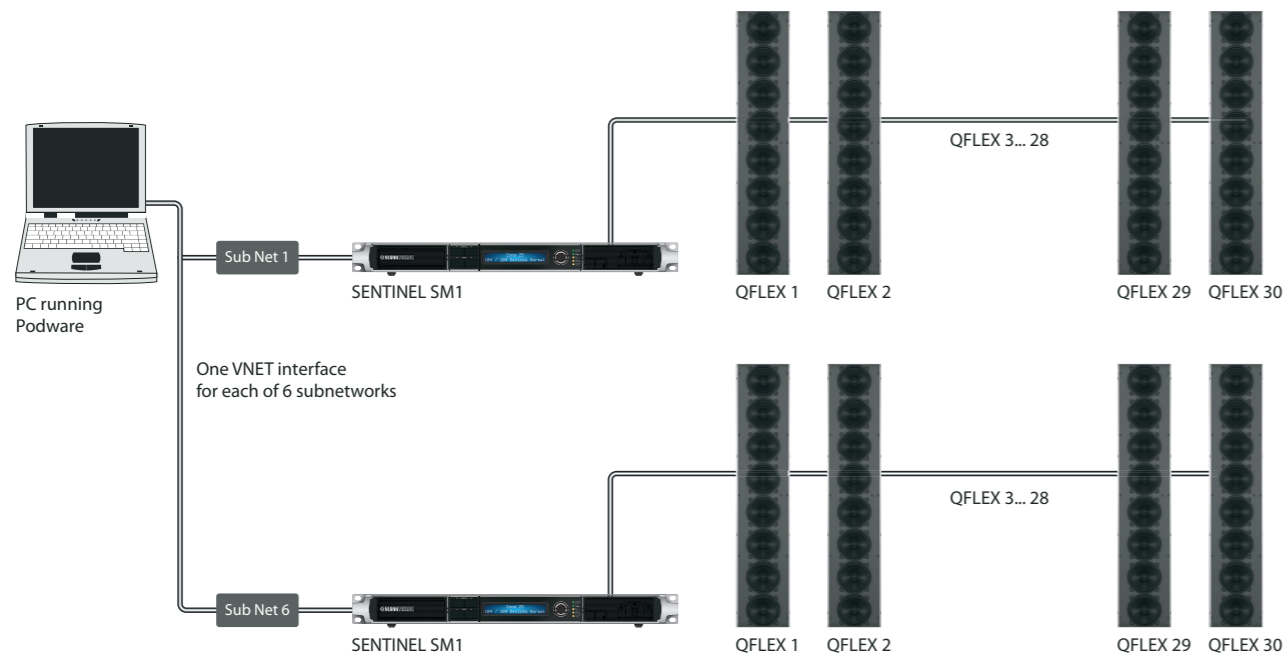
EN Introduction

Sentinel SM1 System Monitor provides a complete system wide fault monitoring and reporting solution for mission-critical applications. Built on a tried and trusted processing “Engine”, Sentinel keeps a watchful eye on the audio system, and if required, any controlling PCs. Problems are reported both via relay contacts to the main monitoring panel in your system as well as being shown on Sentinel’s front panel display, and buzzers. Multiple Sentinels can even monitor each other and the same network simultaneously for systems that require dual redundant monitoring.

The Sentinel SM1 System Monitor is a pivotal VNET network accessory, assuring system integrity in sensitive applications demanding dependability and requiring demonstrable functionality. The SM1 checks the status of all devices on the same VNET network, looking for any defects, or lack of performance which may require attention. The SM1 may be used stand-alone, or with the PodWare software application. Any defects found in the system give rise to clear indication on the indicators on the front panel, supplementary information being given on the backlit LCD so that the problem can be quickly located and diagnosed. A Comprehensive set of relay contacts allow defects to be reported to another monitoring system such as a fire panel.

The companion PodWare PC Windows application uses a small panel called a Monlcon to display all the important status information about the SM1 at a glance. From this small panel it is possible to see the overall system status. The full control panel is only one click away from the Monlcon. From the full control panel, it is very simple to adjust the finer details of Sentinel’s operation. In most cases however, there will be no setting up to do.

Sentinel SM1(s) inserted in a VNET network, as illustrated by the diagram below, will monitor each network device for problems, the whole network, and report “missing” devices including the PC. SM1’s also monitor themselves and problems trigger a network “alarm”, which can be: Normal, Check or Fault.



Product description

Front panel



The **Scroll** buttons allow to scroll through a number of items on a given page.

The **Page** buttons allow the view of the display to change; pointing the display (and the encoder where appropriate) at a particular feature or parameter. Further information can be found in the section Navigating on the Sentinel.

The **Encoder** (the rotary control knob) allows parameters to be adjusted. Generally, clockwise to increase the value, and counter-clockwise to decrease.

The System Status area on the System Monitor panel indicates the state of the system:

System Normal – Illuminates when no problems are found. This indicator will become dark if any of the following are illuminated: PC Fault, Check System, System Fault.

PC Online – Illuminates when a controlling computer running the PodWare application is actively connected to this System Monitor

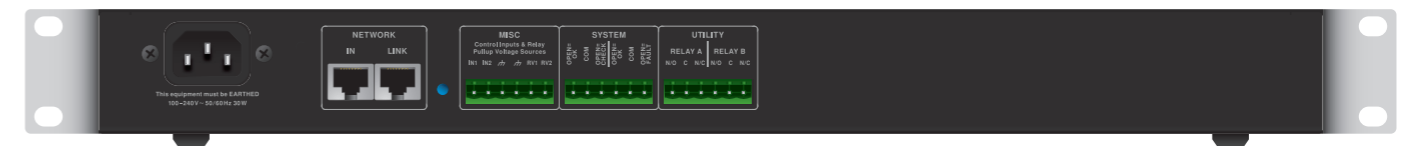
PC Fault – Illuminates when PodWare is not online to the System Monitor; and the unit was set up to expect such a connection.

Check System – Illuminates when one of the monitored devices has detected some anomaly which might require attention, but is not causing any serious loss of performance.

System Fault – Illuminates when one of the monitored devices has detected a fault which requires the attention of an engineer.

When the unit is starting up, it performs a “Lamp Test” – lighting all the front panel indicators so you can check that they are working. It also performs a Lamp Test when the unit is discovering devices – warning you that it is not detecting incidents on the network during this process.

Rear panel



BvNet Network

In: For the “Inbound” connection derived from the PC

Link: For connection to other devices

Note that the devices maybe connected in any order. Device will be monitored whether “upstream” or “downstream” from this device.

Misc

In1, In2: Used to feed logic inputs into the device (not currently implemented)

Gnd: Ground, 0v, Earth reference used in conjunction with Logic inputs or Voltage outputs.

RV1, RV2: Voltage outputs for energising external apparatus. +15v is available, and is protected by internal 1000 Ohms of resistance.

System

Check: Three terminals representing a “Check” Incident state. When there is no Check incident, the COM terminal is disconnected from the “Open = ok” terminal, and connected to the “open=check” terminal. When a Check Incident is present, the COM terminal becomes disconnected from the “open=check” terminal, and connected to the “Open = ok” terminal. When the device is not powered, the COM terminal is disconnected from the “open=check” terminal, and connected to the “Open = ok” terminal.

Fault: Three terminals representing a “Fault” Incident state. When there is no Fault incident, the COM terminal is disconnected from the “Open = ok” terminal, and connected to the “open=fault” terminal. When a Fault Incident is present, the COM terminal becomes disconnected from the “open=fault” terminal, and connected to the “Open = ok” terminal. When the device is not powered, the COM terminal is disconnected from the “open=fault” terminal, and connected to the “Open = ok” terminal.

Utility

Relay A: Three terminals whose default action is to indicate when there is a PC disconnection fault. When there is no PC Fault the COM terminal is disconnected from the “N/O” terminal, and connected to the “N/C” terminal. When a PC Fault is present, the COM terminal becomes disconnected from the “N/C” terminal, and connected to the “N/O” terminal. When the device is not powered, the COM terminal is disconnected from the “N/C” terminal, and connected to the “N/O” terminal.

Relay B: Not currently implemented.

Installation and setting up

Devices are identified on the network by means of a Handle which is unique, and a Link Address which is randomly allocated, but checked for uniqueness and corrected by PodWare when going online to the system. When a network of devices is newly installed, first go online to the network with PodWare to make sure this checking process is done. Wait for PodWare to discover all of your devices this first time. Do not connect Sentinel to the network until this is done.

So that devices reporting Incidents to Sentinel can be identified, each device on the network should be given a Device Name. Please see the main PodWare Help file for details on how to do this.

When you power-up Sentinel while connected to a network of devices, or if a network of devices is plugged into Sentinel while it is operating, Sentinel will discover all the devices on the network and begin to monitor them. While it is discovering new device, it illuminates all the front panel indicators to warn you that incidents are not being monitored during this process. For a large number of devices, this process can take several minutes.

Better network performance will be had if either Sentinel or PodWare are online to the system. Operations will be slower if both are online to a large network of devices. If it is a requirement to have both Sentinel and PodWare online to a large network (larger than say 24 devices), then Sentinel should be put online first and allowed to acquire all the devices, then once settled, put PodWare online.

Navigating on the Sentinel

There are a number of “pages” that you can view. Use the “<” Page button to view the previous page, or “>” Page button to view the next page.

Use the Encoder to adjust the value of the item (Parameter) if it is adjustable. If the item is not adjustable, then the Encoder will have no action.

The pages are as follows:

- Display Contrast
- Default information (The default page)
- Incident (History, Scroll for others)

Some pages (such as Incident History) allow scrolling among the items. Use the “v” Scroll button to view the previous scrolled item, or “^” Scroll button to view the next scrolled item.

By default, the display will usually show the name of this device, the number of other devices that it has found on the network, and the Alarm status:

MyDeviceName

27 of 28 Devices Normal

The word “Normal” indicates that no incidents are active among the monitored devices. The display is also indicating that 27 devices have been found on the network, of the 28 expected. If there is an Alarm Incident active, the default page will look like this:

MyDeviceName

28 of 28 Devices Fault>

For a Fault Incident. Or (for a Check incident):

MyDeviceName

28 of 28 Devices Check>

Details of the Alarm Incidents may be viewed by clicking the “>” Page button to go to the Alarm Incident History page. For a Check incident, an incident looks like this:

8.3 Dys ago DeviceName03

CHK AmplifierTemperature

This shows the elapsed time (how many days since the incident ended - in this case 8.3 days ago), the name of the device which raised the incident (“DeviceName03”), the incident type (Check) and the Alarm Name (“AmplifierTemperature”). If the incident is more than 160 days old, the elapsed time is shown as “>5 mths”. If the Sentinel unit has its power removed then re-applied, the elapsed time indications may be inaccurate since the timers do not run when the power is switched off.

A Fault incident looks like this:

27 Dys ago DeviceName04

FLT Pilot Tone Lost

If the incident still exists, the elapsed time is shown as **NOW**.

NOW DeviceName02

CHK DriverImpedanceChanB

Local Alarms (Alarms which are not reported from monitored devices, but from the Sentinel unit itself), are shown on the display in exactly the same way except that the DeviceName of the offending device, is the name of the Sentinel product:

NOW MyDeviceName

FLT WrongNumberOfDevices

Clicking the “v”, “^” Scroll buttons will allow other items in the Incident History to be viewed. The latest incident will normally be shown. Click the “v” Scroll button repeatedly to show older incidents.

Clicking the “<” Page button from the default page will show the Utility Page - Display Contrast:

Util Screen

1 100%

Using and controlling Sentinel with PodWare

For further help on the PodWare application, please refer to the general software documentation, or click the help button on the main application.

Device alarm incidents

Alarm Incidents are a unified way of informing the System Monitor or the PodWare application of the status of a device in terms of its ability to perform its required function.

Using Alarm Incidents, a device may report the current State of a number of critical parameters. The State of each may be one of: Normal, Check or Fault. The occurrence of one of the latter two is considered to be an Incident. A Check Incident is one where the performance of the product may be impacted, but the device is attempting to restore full performance without any human intervention.

A Fault Incident is one where the performance of the product is impacted, and the device requires human intervention.

Compatible devices connected on the same network as the System Monitor will have their operational state monitored by the System Monitor. The most serious Alarm among all the monitored devices determines the overall state of the system as indicated by the System Monitor.

So that an Incident from a device may be temporarily ignored (for example while waiting for the attendance of an engineer), each device has the ability for the current alarm level to be disabled, whereupon the device no longer reports the alarm, so the incident will not be detected by System Monitor. More serious incidents occurring subsequently will still be honoured.

The System Monitor itself may generate “local” Alarm Incidents which the PodWare application (or indeed another System Monitor) may detect and indicate.

The network Tree in the PodWare application will also indicate the Alarm states of compatible devices using the convention Green = Normal, Yellow = Check System, Red = System Fault. Note that some devices may require a firmware update in order to be compatible with the Alarm system used by System Monitor.

User controls

The control panel in the PodWare application for the System Monitor allows the parameters to be viewed and adjusted. The panel may have one of two different formats: A monitoring panel (the “MonIcon”) where the status of the device and the system may be viewed, or a full control panel where all the controls to adjust parameters in the System Monitor are located. The full panel has other controls used mainly for setting up.

Monitoring section (MonIcon)

This allows you to view what is going on inside the device and in the system at a glance.

It shows the overall state of the monitored system, effectively duplicating some of the indicators on the device itself:

- The System State (Normal, Check or Fault).
- The number of Devices found on the network
- What “local” alarms you will allow to be reported

You can change the view to the main panel by clicking the “>>” button.

Main control panel

This allows you to view what is going on inside the device and in the system at a glance.

It shows the overall state of the monitored system, effectively duplicating some of the indicators on the device itself:

- The System State (Normal, Check or Fault).
- The number of Devices found on the network
- What “local” alarms you will allow to be reported

You can change the view to the main panel by clicking the “>>” button.

Hidden controls

Your vendor may have hidden some of the controls on the panel in order to maintain proper protection of the system. Such hidden controls will appear grey and cannot be adjusted.

Saving & recalling data

Device Data may be saved to disk or opened from disk. PodWare Device Settings files (with file extension .dse) contain all the data necessary to restore a device to exactly the same state as when the file was saved.

If the current settings have been changed since the last file save or file open, the Save Icon on the panel toolbar will be shown in solid colour. If the settings are already safe, the Save icon appears grey.

If a file is opened when online to devices, the new data will be sent to the device, overwriting whatever was in the device. A warning will be given before this is done. Data saved from one device can be reopened in another to save time inputting data. (Assuming settings are to be duplicated)

PodWare will always try to protect your data, warning you if you are attempting an action that could cause loss of data.

Tool bar

The toolbar provides the following one-click functions:

- Open - opens a file which contains parameters for the device. A dialogue will appear, inviting you to choose a file to open.
- Save - saves the current settings. A dialogue will appear inviting you to enter a file name. If the settings have not changed since you last saved or opened a file, the Icon will appear greyed out, indicating that a save is not necessary.
- Locate - flashes a message on the display to assist device identification, and as a quick check that communications are working. This only works when on-line.
- Help - launches (this) Panel Help

Keyboard shortcuts

PodWare supports the following “shortcuts” :

Tab Move to next control

In value boxes:

CTL+C	Copy
CTL+V	Paste
CTL+X	Cut
CTL+Z	Undo

On Drop-down, Spin, Push, Fader and radio controls:

PgUp	Increase value (coarsely)
PgDown	Reduce value (coarsely)
Up/Right arrow	Increase value (finely)
Down/Left arrow	Reduce value (finely)

On push-button controls:

Space	Activate
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Incident History

Each time there is a new Alarm Incident, details of the incident may be entered into a finite-length list known as the Incident History.

The incident is entered into the list only if there is space in the list (where an expired incident can be removed), or where the new incident is more serious than the least serious active alarm in the list (where that incident will be removed from the list).

The most recent incident is shown at the end of the list, older incidents being further back in the list. Incidents remain in the list even when the Alarm incident no longer exists, and will remain there until the incident falls off the end of the list.

Incidents which no longer exist have their entries marked with the time which has elapsed since the incident was current (the elapsed time since the Alarm incident ceased). Incidents which still exist (The Alarm Incident is still active) are shown as “**NOW**” instead of an elapsed time.

When the Incident history page is in view on the display, the Scroll buttons may be used to scroll among the history entries.

The list of incidents are stored so that they survive a power cycle.

EN Specifications

Connectors	
Misc	2 x 3-pin phoenix
System	2 x 3-pin phoenix
Utility	2 x 3-pin phoenix
Network	2 x RJ45
Display	
Main display	Current status/check/fault condition history
LEDs	System normal (green) PC online (green) PC fault (amber) Check system (amber) System fault (amber)
Power	
Switch-mode power supply	Autorange 100-240 V (50/60 Hz)
Power consumption	30 W
Mains connection	Standard IEC cable
Physical	
Standard operating temperature range	0 to +55 degrees C
Humidity	0 to 80% RH (non-condensing)
Dimensions (HWD)	49 x 483 x 165 mm (1.9 x 19 x 6.5")
Weight	2.0 kg (4.4 lbs)

Other important information

EN Important information

1. Register online. Please register your new MUSIC Group equipment right after you purchase it by visiting klarktechnik.com. Registering your purchase using our simple online form helps us to process your repair claims more quickly and efficiently. Also, read the terms and conditions of our warranty, if applicable.

2. Malfunction. Should your MUSIC Group Authorized Reseller not be located in your vicinity, you may contact the MUSIC Group Authorized Fulfiller for your country listed under "Support" at klarktechnik.com. Should your country not be listed, please check if your problem can be dealt with by our "Online Support" which may also be found under "Support" at klarktechnik.com. Alternatively, please submit an online warranty claim at klarktechnik.com BEFORE returning the product.

3. Power Connections. Before plugging the unit into a power socket, please make sure you are using the correct mains voltage for your particular model. Faulty fuses must be replaced with fuses of the same type and rating without exception.

FR Informations importantes

1. Enregistrez-vous en ligne. Prenez le temps d'enregistrer votre produit MUSIC Group aussi vite que possible sur le site Internet klarktechnik.com. Le fait d'enregistrer le produit en ligne nous permet de gérer les réparations plus rapidement et plus efficacement. Prenez également le temps de lire les termes et conditions de notre garantie.

2. Dysfonctionnement. Si vous n'avez pas de revendeur MUSIC Group près de chez vous, contactez le distributeur MUSIC Group de votre pays : consultez la liste des distributeurs de votre pays dans la page "Support" de notre site Internet klarktechnik.com. Si votre pays n'est pas dans la liste, essayez de résoudre votre problème avec notre "aide en ligne" que vous trouverez également dans la section "Support" du site klarktechnik.com. Vous pouvez également nous faire parvenir directement votre demande de réparation sous garantie par Internet sur le site klarktechnik.com AVANT de nous renvoyer le produit.

3. Raccordement au secteur. Avant de relier cet équipement au secteur, assurez-vous que la tension secteur de votre région soit compatible avec l'appareil. Veillez à remplacer les fusibles uniquement par des modèles exactement de même taille et de même valeur électrique — sans aucune exception.

PT Outras Informações Importantes

1. Registre-se online. Por favor, registre seu novo equipamento MUSIC Group logo após a compra visitando o site klarktechnik.com. Registrar sua compra usando nosso simples formulário online nos ajuda a processar seus pedidos de reparos com maior rapidez e eficiência. Além disso, leia nossos termos e condições de garantia, caso seja necessário.

2. Funcionamento Defeituoso. Caso seu fornecedor MUSIC Group não esteja localizado nas proximidades, você pode contatar um distribuidor MUSIC Group para o seu país listado abaixo de "Suporte" em klarktechnik.com. Se seu país não estiver na lista, favor checar se seu problema pode ser resolvido com o nosso "Suporte Online" que também pode ser achado abaixo de "Suporte" em klarktechnik.com. Alternativamente, favor enviar uma solicitação de garantia online em klarktechnik.com ANTES da devolução do produto.

3. Ligações. Antes de ligar a unidade à tomada, assegure-se de que está a utilizar a voltagem correcta para o modelo em questão. Os fusíveis com defeito terão de ser substituídos, sem qualquer excepção, por fusíveis do mesmo tipo e corrente nominal.

ES Aspectos importantes

1. Registro online. Le recomendamos que registre su nuevo aparato MUSIC Group justo después de su compra accediendo a la página web klarktechnik.com. El registro de su compra a través de nuestro sencillo sistema online nos ayudará a resolver cualquier incidencia que se presente a la mayor brevedad posible. Además, aproveche para leer los términos y condiciones de nuestra garantía, si es aplicable en su caso.

2. Averías. En el caso de que no exista un distribuidor MUSIC Group en las inmediaciones, puede ponerse en contacto con el distribuidor MUSIC Group de su país, que encontrará dentro del apartado "Support" de nuestra página web klarktechnik.com. En caso de que su país no aparezca en ese listado, acceda a la sección "Online Support" (que también encontrará dentro del apartado "Support" de nuestra página web) y compruebe si su problema aparece descrito y solucionado allí. De forma alternativa, envíenos a través de la página web una solicitud online de soporte en período de garantía ANTES de devolvernos el aparato.

3. Conexiones de corriente. Antes de enchufar este aparato a una salida de corriente, asegúrese de que dicha salida sea del voltaje adecuado para su modelo concreto. En caso de que deba sustituir un fusible quemado, deberá hacerlo por otro de idénticas especificaciones, sin excepción.

DE Weitere wichtige Informationen

1. Online registrieren. Bitte registrieren Sie Ihr neues MUSIC Group-Gerät direkt nach dem Kauf auf der Website klarktechnik.com. Wenn Sie Ihren Kauf mit unserem einfachen online Formular registrieren, können wir Ihre Reparaturansprüche schneller und effizienter bearbeiten. Lesen Sie bitte auch unsere Garantiebedingungen, falls zutreffend.

2. Funktionsfehler. Sollte sich kein MUSIC Group Händler in Ihrer Nähe befinden, können Sie den MUSIC Group Vertrieb Ihres Landes kontaktieren, der auf klarktechnik.com unter „Support“ aufgeführt ist. Sollte Ihr Land nicht aufgelistet sein, prüfen Sie bitte, ob Ihr Problem von unserem „Online Support“ gelöst werden kann, den Sie ebenfalls auf klarktechnik.com unter „Support“ finden. Alternativ reichen Sie bitte Ihren Garantieanspruch online auf klarktechnik.com ein, BEVOR Sie das Produkt zurücksenden.

3. Stromanschluss. Bevor Sie das Gerät an eine Netzsteckdose anschließen, prüfen Sie bitte, ob Sie die korrekte Netzspannung für Ihr spezielles Modell verwenden. Fehlerhafte Sicherungen müssen ausnahmslos durch Sicherungen des gleichen Typs und Nennwerts ersetzt werden.

FEDERAL COMMUNICATIONS COMMISSION COMPLIANCE INFORMATION



Responsible Party Name: **MUSIC Group Research
UK Limited**

Address: **Klark Industrial Park,
Walter Nash Road,
Kidderminster. Worcestershire.
DY11 7HJ. England.**

Phone Number: **+44 1562 741515**

SENTINEL SM1

complies with the FCC rules as mentioned in the following paragraph:

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.

Important information:

Changes or modifications to the equipment not expressly approved by MUSIC Group can void the user's authority to use the equipment.

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