

IR 100 USB™



USER MANUAL

3

SAFETY WARNINGS

- To prevent short circuits, this product should only be used inside and only in dry spaces. Do not expose the components to rain or moisture. Do not use the product close to a bath, swimming pool etc.
- Do not expose the components of your systems to extremely high temperatures or bright light sources.
- In case of improper usage or if you have altered and repaired the product yourself, all guarantees expire. Marmitek does not accept responsibility in the case of improper usage of the product or when the product is used for purposes other than specified. Marmitek does not accept responsibility for additional damage other than covered by the legal product responsibility.
- This product is not a toy. Keep out of reach of children.
- Do not open the product: the device may contain live parts. The product should only be repaired or serviced by a qualified expert.
- Only connect the adapter to the mains after checking whether the mains voltage is the same as the values on the identification tags. Never connect an adapter or power cord when it is damaged. In that case, contact your supplier.

1. INTRODUCTION

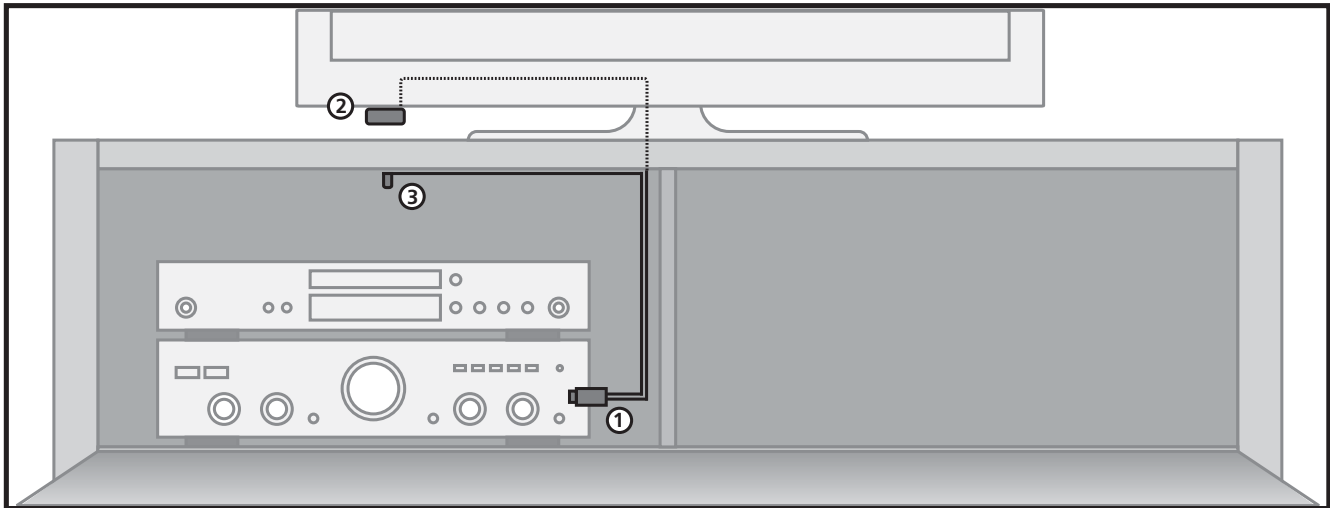
Congratulation on buying the IR 100 USB™. With the IR 100 USB™ you can extend the IR (infra-red) signals from your own remote control. The IR 100 USB™ gives you the opportunity to control your A/V equipment when it's stored away in a closed cabinet or placed out of sight.

Marmitek products are manufactured with the utmost care and are exceptionally high quality. Please read this manual carefully and follow the instructions in order to get the best from this product.

2. SET CONTENT

- 1x IR 100 USB™
- 1x User manual

3. HOW DOES IT WORK?



Place your A/V equipment in a closed cabinet or TV stand. Use one of the USB ports (1) on your A/V equipment (Digital TV decoder, Blu-ray player, audio installation) or TV to power the IR 100 USB. The IR receiver (2) must be installed within your remote's line of sight and you should stick the IR blaster LED (3) inside the cabinet. Point the remote at the IR receiver to operate your equipment through the cabinet doors.

4. INSTALLATION

In order to check that the system works correctly, it is advisable to first test the set-up you had in mind. To do so, connect everything as described below but do not stick the components securely.

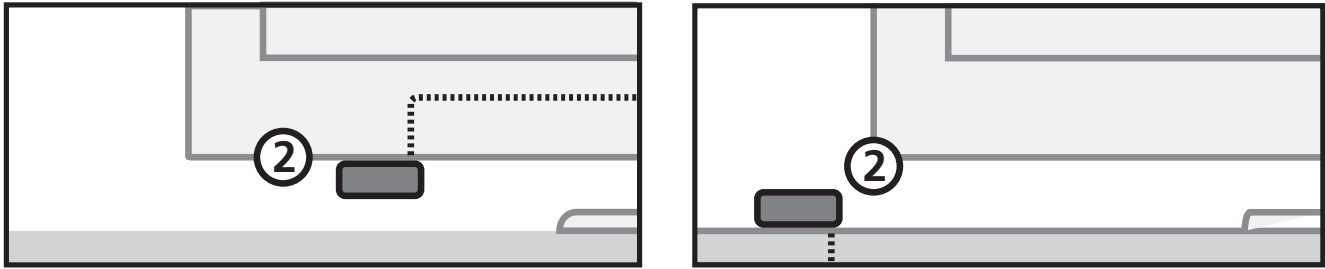
4.1 USB POWER

No power adapter is included with the IR 100 USB™. You can power the product by connecting it to a free USB port on your AV device or TV.

Please note the following:

- Not all USB ports are active or provide enough power for proper functioning.
- Some USB ports are disabled when turning off the set. In that case, you can only use the IR 100 USB when the unit is on.
- Use a universal USB extension cable if you want to extend the cable.
- If necessary, use a universal USB power adapter (5VDC, 500mA) if you cannot use any USB port on your device.

4.2 LOCATING THE IR RECEIVER

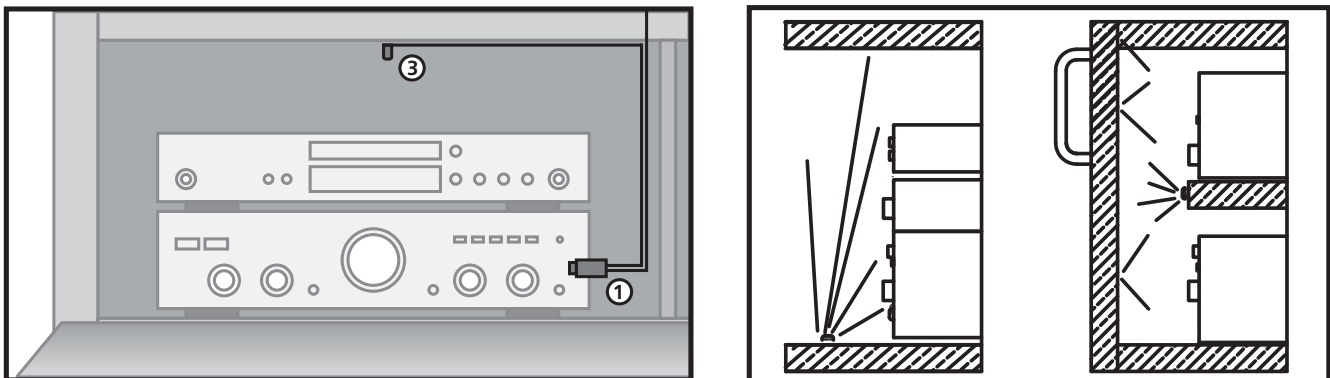


Place the very small IR receiver (2) that comes with the IR 100 USB™ so that it can be seen by your (infrared) remote control and receive the commands (max. 8 metres).

- The most logical location for the IR receiver is, for example, on the cabinet in which the A/V equipment is located or near the TV.
- Use the self-adhesive strip which is supplied to locate the IR receiver just about anywhere you please.
- Experiment with the location before you stick the IR receiver in its final position.

Note! The sticky strip may lead to discolouration or leave glue residues on certain surfaces.

4.3 LOCATING THE IR BLASTER LED



Stick the IR blaster LEDs (3) wherever you like in the cabinet or TV unit. You will then be able to operate all of the A/V devices in that specific section.

- With a correct placement one blaster LED can control all A/V devices placed in the same compartment.
- Or you place the blaster LED on one of the A/V devices in the middle of the cabinet and the other equipment will be controlled as well by the reflection of the infrared signal.

5. FREQUENTLY ASKED QUESTIONS

The A/V equipment does not respond to signals from my remote control. Take the following instructions into account:

- The IR receiver has a receiving sensitivity of about 8 metres with an acceptance angle of 60 degrees. Range is also dependent on the remote control used.
- If the light on the IR Receiver is continuously illuminated, the IR receiver is probably being disrupted by another infrared signal. Try to locate the IR receiver so that it encounters as little disruption as possible from, for example, direct sunlight, Flat Screen TVs, (LCD, Plasma, LED), fluorescent lighting or energy-efficient light bulbs.
- The IR receiver does not work with some A/V devices and models that use higher IR frequencies such as Bang&Olufsen (B&O).
- Ensure that the IR receiver and the IR blaster extender cable are correctly connected and that these are plugged in properly.

Do you have other questions that have not been resolved by the above information? Please go to www.marmitek.com

6. TECHNICAL DATA

IR 100 USB™

Power:	USB 5VDC 500mA
Frequency range:	30-60 KHz.
IR reception range:	± 8 metres.
IR reception angle:	60° (+30°/-30° from centre).
Dimensions:	90 x 75 x 30mm

IR Extension cable

IR LEDs:	1x IR blaster LED
IR transmission range:	2 metres
Length of cable:	2x 1 metres

Specifications may change without prior notice.



Environmental Information for Customers in the European Union

European Directive 2002/96/EC requires that the equipment bearing this symbol on the product and/or its packaging must not be disposed of with unsorted municipal waste. The symbol indicates that this product should be disposed of separately from regular household waste streams. It is your responsibility to dispose of this and other electric and electronic equipment via designated collection facilities appointed by the government or local authorities. Correct disposal and recycling will help prevent potential negative consequences to the environment and human health. For more detailed information about the disposal of your old equipment, please contact your local authorities, waste disposal service, or the shop where you purchased the product.

DECLARATION OF CONFORMITY

Hereby, Marmitek BV, declares that this IR 100 USB™ is in compliance with the essential requirements and other relevant provisions of the following Directives:

Directive 2004/108/EC of the European Parliament and of the Council of 15 December 2004 on the approximation of the laws of the Member States relating to electromagnetic compatibility

Directive 2006/95/EC of the European Parliament and of the Council of 12 December 2006 on the harmonisation of the laws of Member States relating to electrical equipment designed for use within certain voltage limits

Directive 2002/95/EC of the European Parliament and of the Council of 27 January 2003 on the restriction of the use of certain hazardous substances in electrical and electronic equipment

Commission Regulation (EC) No 278/2009 of 6 April 2009 implementing Directive 2005/32/EC of the European Parliament and of the Council with regard to ecodesign requirements for no-load condition electric power consumption and average active efficiency of external power supplies

Hiermit erklärt Marmitek BV die Übereinstimmung des Gerätes IR 100 USB™ den grundlegenden Anforderungen und den anderen relevanten Festlegungen der Richtlinien:

Richtlinie 2004/108/EG des europäischen Parlaments und des Rates vom 15. Dezember 2004 zur Angleichung der Rechtsvorschriften der Mitgliedstaaten über die elektromagnetische Verträglichkeit

Richtlinie 2006/95/EG des Europäischen Parlaments und des Rates vom 12. Dezember 2006 zur Angleichung der Rechtsvorschriften der Mitgliedstaaten betreffend elektrische Betriebsmittel zur Verwendung innerhalb bestimmter Spannungsgrenzen

Richtlinie 2002/95/EG des Europäischen Parlaments und des Rates vom 27. Januar 2003 zur Beschränkung der Verwendung bestimmter gefährlicher Stoffe in Elektro- und Elektronikgeräten

Verordnung (EG) Nr. 278/2009 der Kommission vom 6. April 2009 zur Durchführung der Richtlinie 2005/32/EG des Europäischen Parlaments und des Rates im Hinblick auf die Festlegung von Ökodesign-Anforderungen an die Leistungsaufnahme externer Netzteile bei Nulllast sowie ihre durchschnittliche Effizienz im Betrieb

Par la présente Marmitek BV déclare que l'appareil IR 100 USB™ est conforme aux exigences essentielles et aux autres dispositions pertinentes de la directives:

Directive 2004/108/CE du parlement européen et du conseil du 15 décembre 2004 relative au rapprochement des législations des États membres concernant la compatibilité électromagnétique

Directive 2006/95/CE du Parlement européen et du Conseil du 12 décembre 2006 concernant le rapprochement des législations des États membres relatives au matériel électrique destiné à être employé dans certaines limites de tension

Directive 2002/95/CE du Parlement européen et du Conseil du 27 janvier 2003 relative à la limitation de l'utilisation de certaines substances dangereuses dans les équipements électriques et électroniques

Règlement (CE) no 278/2009 de la Commission du 6 avril 2009 portant application de la directive 2005/32/CE du Parlement européen et du Conseil en ce qui concerne les exigences d'écoconception relatives à la consommation d'électricité hors charge et au rendement moyen en mode actif des sources d'alimentation externes

Marmitek BV declara que este IR 100 USB™ cumple con las exigencias esenciales y con las demás reglas relevantes de la directriz:

Directiva 2004/108/ce del parlamento europeo y del consejo de 15 de diciembre de 2004 relativa a la aproximación de las legislaciones de los Estados miembros en materia de compatibilidad electromagnética

Directiva 2006/95/CE del Parlamento Europeo y del Consejo de 12 de diciembre de 2006 relativa a la aproximación de las legislaciones de los Estados miembros sobre el material eléctrico destinado a utilizarse con determinados límites de tensión

Directiva 2002/95/CE del Parlamento Europeo y del Consejo de 27 de enero de 2003 sobre restricciones a la utilización de determinadas sustancias peligrosas en aparatos eléctricos y electrónicos

Reglamento (CE) no 278/2009 de la Comisión de 6 de abril de 2009 por el que se desarrolla la Directiva 2005/32/CE del Parlamento Europeo y del Consejo en lo concerniente a los requisitos de diseño ecológico aplicables a la eficiencia media en activo de las fuentes de alimentación externas y a su consumo de energía eléctrica durante el funcionamiento en vacío

Con ciò, Marmitek BV, dichiara che il IR 100 USB™ è conforme ai requisiti essenziali ed alter disposizioni relative alla Direttiva:

Direttiva 2004/108/ce del parlamento europeo e del consiglio del 15 dicembre 2004 concernente il ravvicinamento delle legislazioni degli Stati membri relative alla compatibilità elettromagnetica

Direttiva 2006/95/CE del Parlamento europeo e del Consiglio del 12 dicembre 2006 concernente il ravvicinamento delle legislazioni degli Stati membri relative al material elettrico destinato ad essere adoperato entro taluni limiti di tensione

Direttiva 2002/95/CE del Parlamento europeo e del Consiglio del 27 gennaio 2003 sulla restrizione dell'uso di determinate sostanze pericolose nelle apparecchiature elettriche ed elettroniche

Regolamento (CE) n. 278/2009 della Commissione del 6 aprile 2009 recante misure di esecuzione della direttiva 2005/32/CE del Parlamento europeo e del Consiglio per quanto riguarda le specifiche di progettazione ecocompatibile relative al consumo di energia elettrica a vuoto e al rendimento medio in modo attivo per gli alimentatori esterni

Bij deze verklaart Marmitek BV, dat deze IR 100 USB™ voldoet aan de essentiële eisen en aan de overige relevante bepalingen van Richtlijnen:

Richtlijn 2004/108/eg van het europees parlement en de raad van 15 december 2004 betreffende de onderlinge aanpassing van de wetgevingen van de lidstaten inzake elektromagnetische compatibiliteit

Richtlijn 2006/95/EG van het Europees Parlement en de Raad van 12 december 2006 betreffende de onderlinge aanpassing van de wettelijke voorschriften der lidstaten inzake elektrisch materiaal bestemd voor gebruik binnen bepaalde spanningsgrenzen

Richtlijn 2002/95/EG van het Europees Parlement en de Raad van 27 januari 2003 betreffende beperking van het gebruik van bepaalde gevaarlijke stoffen in elektrische en elektronische apparatuur

Verordening (EG) Nr. 278/2009 van de Commissie van 6 april 2009 houdende tenuitvoerlegging van Richtlijn 2005/32/EG van het Europees Parlement en de Raad, wat betreft voorschriften inzake ecologisch ontwerp voor het elektrisch opgenomen vermogen van externe stroomvoorzieningen in niet-belaste toestand en de gemiddelde actieve efficiëntie van externe stroomvoorzieningen



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