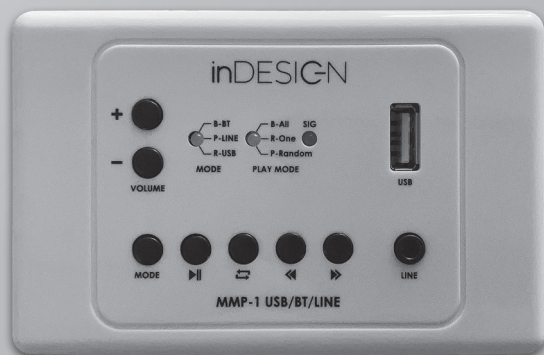


INSTALLATION & OPERATION MANUAL

inDESIGN

MMP-1

USB/BT/LINE CONTROL PANEL



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INTRODUCTION

The MMP-1 is a universal remote wall panel featuring three input modes: BT, Line input and USB audio file playback. It can be used as a remote input to distributed audio systems, or on its own connected directly to mixers, amplifiers or speaker systems. Users have the choice to connect the MMP-1 locally in an installed space or connect to devices remotely via inexpensive CAT6A twisted pair cabling.

The MMP-1 is the right choice for users who wish to install multiple streaming receivers within close vicinity to one another. With a few simple steps users are able to rename the BT ID to differentiate installed MMP-1's throughout buildings such as schools, universities, office spaces and other training facilities.

Electrical and Safety Warnings

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 OPERATING INSTRUCTIONS UNLESS YOU ARE QUALIFIED TO DO SO.



The lightning flash with arrowhead symbol, with an equilateral triangle, is intended to alert the user to the presence of un-insulated "dangerous voltage" within the products enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

CAUTION

**RISK OF ELECTRIC SHOCK
DO NOT OPEN**




WARNING: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

WARNING: TO REDUCE THE RISK OF FIRE OR ELECTRICAL SHOCK, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.



The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

IMPORTANT SAFETY INSTRUCTIONS

1. Read these instructions.
2. Keep these instructions.
3. Heed all warnings.
4. Follow all instructions.
5. To prevent injury please refer to these instructions for electrical and safety information before installing or operating the apparatus.
6. No naked flame sources such as lighted candles should be placed on the apparatus.
7. Operation of this apparatus is recommended for moderate climates only.
8. This apparatus must not be exposed to dripping or splashing liquid.
No object filled with liquid, such as a vase, should be placed on the apparatus.
9. Clean only with a dry cloth.
10. Do not block any of the ventilation openings. Install in accordance with the manufacturer's instructions.
11. Do not install near any heat sources such as radiators, heaters, stoves, or other apparatuses (including amplifiers) that produce heat.
12. Unplug this apparatus during lightening storms or when not in use for long periods of time.
13.  Protective Earthing Terminal:
The apparatus should be connected to a mains socket outlet with a protective earthing connection.
14. The mains plug/appliance coupler is used as a disconnect device, the disconnect device shall remain readily operable.
15. When not in use and during transportation, please take care of the power cord set, for example, tie up the power cord set with a cable tie/something similar. It should be kept away from sharp edges and the like that can cause abrasion of the power cord set. When put into use again, check that the power cord set is not damaged. If any damage is found, have the unit checked by a qualified service person to replace the power cord set specified by the manufacturer.
16. The terminals marked with symbol of " " may be of sufficient magnitude to constitute a risk of electric shock. The external wiring connected to the terminals requires installation by a qualified service person or the use of ready-made leads or cords.
17. Only use attachments/accessories specified by the manufacturer.
18. Check speaker line load prior to connecting to amplifier using an impedance meter.
19. Refer all servicing to qualified service personnel. Servicing is required if the apparatus has been damaged in any way, such as power-supply cord or plug breakage, damage due to liquid or objects falling onto the apparatus, exposure to rain or moisture, or if the apparatus does not operate normally, or has been dropped.
20.  Correct Disposal of this Product:
This marking indicates that this product should not be disposed of with other household wastes. To prevent possible harm to the environment or human health from uncontrolled waste disposal, recycle it responsibly to promote the sustainable reuse of material resources. To return your used device, please use the return and collection systems or contact the retailer where the product was purchased. They can take this product for environmental-safe recycling.

WARNING: There are no user serviceable parts inside. Refer all servicing to qualified service personnel.

WHAT'S IN THE BOX

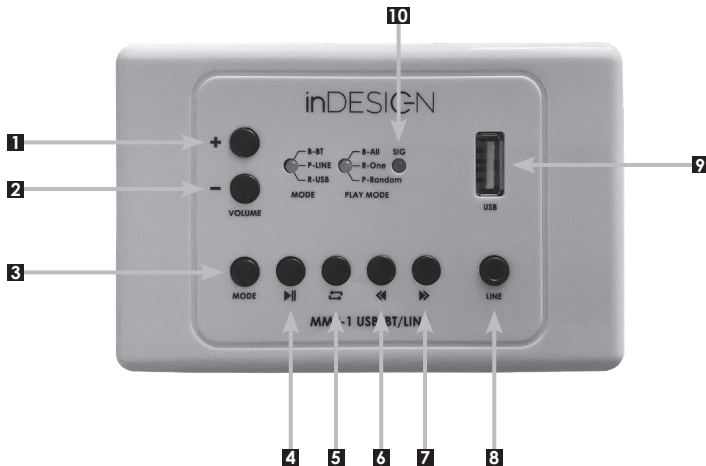
- 1x JST3 to XLRF line input cable (300mm length)
- 1x JST3 to XLRM line output cable (300mm length)
- 1x RJ45 to XLRM cable (1 metre length)
- 1x PoE injector power supply with power cable
- 1x MMP-1 wall plate
- 1x The manual you are reading

INSTALLING YOUR MMP-1

Mounting your MMP-1 control panel is very easy. The MMP-1's plastic fascia is based on Clipsal 2000 style mountings. The MMP-1 is compatible with all Clipsal 2000 style mounting accessories, such as C-Clips and standoff boxes.

Follow the appropriate instructions for the chosen installation accessory for the installation of your MMP-1. The MMP-1 mounts in exactly the same way as a standard Australian/NZ mains outlet or light switch.

FRONT PANEL CONTROLS



1. **VOLUME +** : This button allows volume of playback audio to be increased.
2. **VOLUME -** : This button allows volume of playback audio to be decreased.
3. **MODE**: This button selects between different input source modes. As this button is pressed the MODE LED will cycle Blue, Pink, or Red in colour.

MODE LED BLUE – BT Streaming Mode: In this mode the MMP-1 will accept BT streaming connections from mobile and other BT streaming devices. **Please see pairing section on page 6 for pairing instructions.**

***Note:** Only one BT device can be connected at one time. To connect a different BT device to the MMP-1 please see pairing section.


MODE LED PINK – LINE input mode: Devices connect via the 3.5mm stereo audio port, or devices connected to the mono balanced rear port will pass audio through the MMP-1.

***Note:** The 3.5mm stereo input on the front panel and the balanced input on the rear panel are shared inputs. Audio signal will be audible from both inputs when in LINE mode if both of these audio inputs are connected at the same time.

MODE LED RED – USB playback mode: In this mode the MMP-1 will play compatible files from the USB drive plugged into the USB port on the front panel.


Compatible File types: MP3: Stereo files @ 128k, 192k, 320k and VBR bit rates.

***Note:** USB drive must be formatted as FAT32.


- PLAY/PAUSE button ** : This button has multiple functions, depending on which playback mode has been selected.

BT Mode


PLAY/PAUSE button  : Single short press, this button will play or pause the music file on the connected BT device streaming to the MMP-1


PLAY/PAUSE button  : Holding this button down for 8-10 seconds places the MMP-1 into BT pairing mode. Go to BT settings on your mobile device and pair it with the MMP-1.

USB Mode

PLAY/PAUSE button  : Single short press, this button will play or pause music file on the USB drive plugged into the MMP-1.

LINE Mode

PLAY/PAUSE button  : This button has no function when the MMP-1 is in LINE mode.



- Play mode button ** : This button allows the user to select playback mode of the USB drive when the MMP-1 is in USB playback mode. As this button is pressed the Play Mode LED will cycle Blue, Red or Pink in colour.

PLAY MODE LED BLUE = Plays all files on the USB drive in file name order.

PLAY MODE LED RED = Plays only one file on the USB drive.

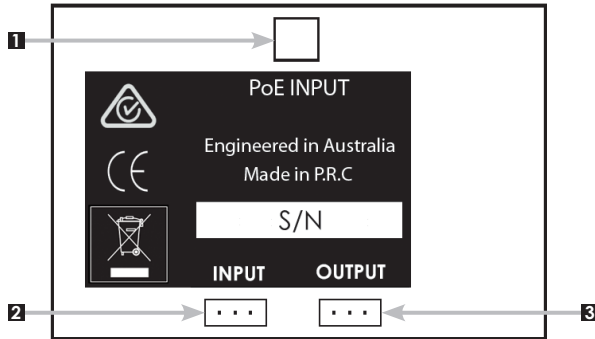
PLAY MODE LED PINK = Plays files on the USB drive at random.

***Note:** The Play mode button has no function when the MMP-1 is in BT or LINE mode.

- Skip back button ** : When pressed once the skip back button will skip back to the start of a playing BT stream or file. Pressing the skip back button twice will skip to the previous playback file. The skip back button has the same function for BT connected devices and USB playback.
- Skip Forward button ** : When pressed the skip forward button will skip to the next playable track on BT connected devices and USB connected drives.
- LINE:** The 3.5mm Stereo line TRS audio input allows users to connect unbalanced audio device signals to the MMP-1. To hear the audio please place the MMP-1 into LINE mode via the MODE button. This stereo input is internally summed to mono.
***Note:** The 3.5mm stereo input on the front panel and the balanced input on the rear panel are shared inputs. Audio signal will be audible from both inputs when in LINE mode if both of these audio inputs are connected at the same time.

- 1. USB:** The USB port allows users to plug USB thumb drives into the MMP-1. To playback music files from a USB drive place, the MMP-1 into USB playback mode via the **MODE** button.
***Note:** USB drive must be formatted as FAT32.
- 2. Sig LED:** The signal LED will illuminate green when there is audible audio playback active on the MMP-1.

REAR PANEL CONNECTIONS



- 1. RJ45 connector:** The RJ45 connector is used to power the MMP-1 and also serve as an audio bus to remotely feed audio to other devices, such as mixers, mixer amplifiers, amplifiers, pre amps and powered speakers.
***Note:** Please see connection diagrams and cable recommendations on page 9 for more details.
- 2. LINE IN:** This is a balanced mono line input. Please connect the JST3 to XLR Female cable adapter (included) to connect balanced LINE output of a device. To hear audio connected to this port please select LINE mode via the MODE button on the front panel of the MMP-1.
***Note:** The 3.5mm stereo input on the front panel and the balanced input on the rear panel are shared inputs. Audio signal will be audible from both inputs when in LINE mode if both of these audio inputs are connected at the same time.
- 3. LINE OUTPUT:** This is a balanced mono line output. Please use the JST3 to XLR Male adapter cable (included) to balanced line input of a device.
***Please see connection diagram and cable recommendations on page 9 for more details.**

BT OPERATION

The MMP-1 is capable of audio streaming from compatible BT devices. The BT transmission range between the MMP-1 and streaming device should be within 20 metres of the MMP-1. Only one streaming device can be connected to the MMP-1 at a time.

BT Paring

To pair your streaming device to the MMP-1 use the mode button to cycle through the different modes until you see the blue LED light. In default the MMP-1 is unpaired and the blue LED will flash slowly.

Press and hold the play/pause button **▶||** for 8-10 seconds until the blue LED flashes rapidly. Go to the BT settings on your streaming device and pair with the MMP-1. The default BT id is "inDESIGN MMP-1".

Once paired with the MMP-1 the blue LED light will illuminate without flashing. Use any application on the connected device from this point to stream audio to the MMP-1. **There is no pairing password.**

***Note:** Ensure you have the volume on the streaming device turn up. The MMP-1's volume control is separate to the volume of the streaming device.

BT Unpairing

There are 2 different ways to unpair a BT connected device to the MMP-1.

1. When in BT mode hold down the play/pause button **▶||** for approx. 8-10 seconds.
The blue LED will now flash slowly indicating the MMP-1 is unpaired from the streaming device.
2. Go to the BT menu of the device and choose forget or disconnect from MMP-1 and the streaming device will disconnect from the MMP-1.
The blue LED on the MMP-1 will begin to flash slowly when disconnected.

BT Custom Naming

In situations where a user has multiple MMP-1 products in close vicinity of each other or the user wishes to change the BT ID of an MMP-1, this can be easily achieved by following the below instructions.

1. Acquire a USB stick. Make sure there are no other files on the stick and it is formatted as a FAT32 partition.
2. In MS EXCEL create a new file.
3. In CELL A1 – Type text: **BtName(Max 16)**
4. In CELL A2 – Type your custom BT ID name (Max of 16 characters) example: **AUDIO RULES!**

	A	B	C	D
1	BtName(Max 16)			
2	AUDIO RULES!			
3				
4				

5. Save the new file as: **_BtName** in **CSV** format.
6. Copy the file to the root directory of your USB drive.
7. With the MMP-1 powered on, insert the USB drive into the USB port.
On successful file read, the MMP-1 will flash together 2 x pink and 1 x Green LED 3 times.
8. Once this process has completed remove the USB drive.

The BT ID name change has now taken place and you may pair your BT streaming device with the MMP-1.

***Please see BT pairing section on page 6 of this manual for pairing instructions.**

***Note:** Ensure the file is removed from the USB drive if you plan to use the same USB drive for audio playback in the future.

CONNECTING YOUR MMP-1

The MMP-1 can be connected in different ways to various audio devices.

Please note the MMP-1 is designed to work using only one output connection at a time. **Please see page 9.**

***Note:** Connecting multiple inputs and outputs and the same time could cause damage to the MMP-1, or other connected equipment.

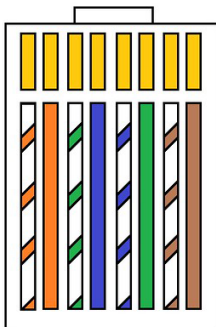
Cable Type

As power and audio travel along the same cable from the MMP1 - through the PoE power supply to other devices, the category network cable connected between the MMP-1 and all devices must be of a high quality.

A shielded category network cable with shielded RJ45 terminations **must** be used.

***Note:** The minimum network category cable type requirement is CAT6A. The Length of cable must not exceed 100 metres between the MMP-1 and PoE power supply. Cables must be terminated with shielded RJ45 connectors in T-568B standard.

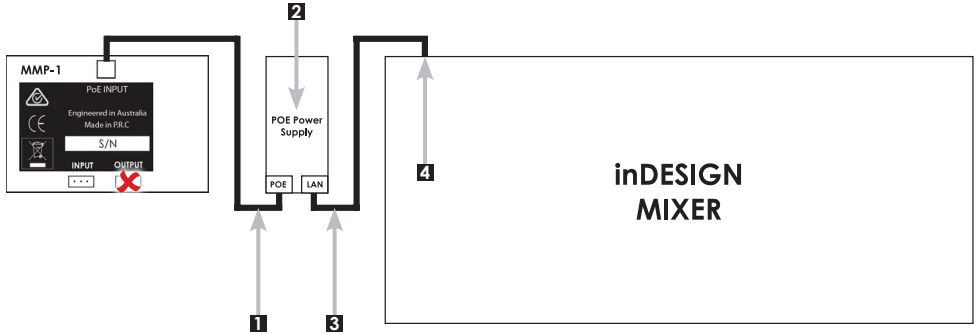
CLIP ON BOTTOM SIDE



RJ45 PIN	CONDUCTOR FUNCTION	CAT 6A CONDUCTOR COLOUR
1	Balanced audio +	White + Orange
2	Balanced audio -	Orange
3		White + Green
4	Vsupply + 24V	Blue
5	Vsupply + 24V	White + Blue
6		Green
7	Vsupply - 24V	White + Brown
8	Vsupply - 24V	Brown
Connector Screen	Audio Ground	Screen / Braid

PoE Power and Audio over shielded UTP Connection

This connection method allows users to power the MMP-1 via the included PoE power supply and route balanced audio from the MMP-1 via the PoE power supply to a remote balanced line input.

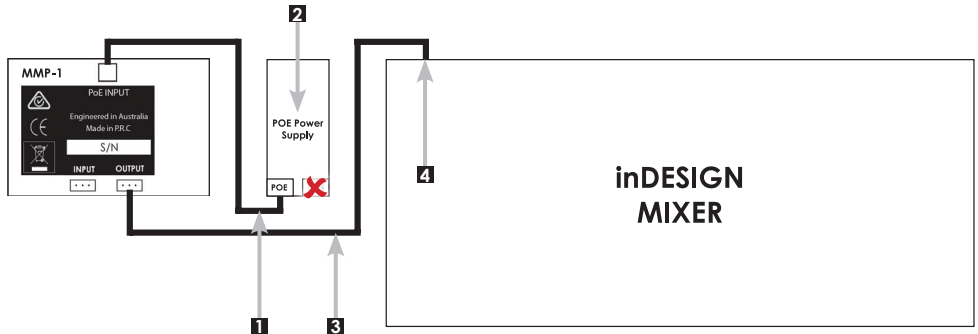


1. RJ45 to RJ45 shielded connectors. Use CAT6A network cable. Max length 100m
2. PoE Power Supply (included)
3. RJ45-LAN-XLR Male Patch Cable (included)
4. Balanced line input of a mixer, mixer amplifier, amplifier or powered speaker

***Note:** in this configuration the balanced line output on the rear of the MMP-1 should **not** be used.

PoE Power and Audio via Tail connection

This connection method allows users to power the MMP-1 via the PoE power supply over network cable and use the balanced LINE output on the rear panel to connect to a local (in room) balanced line input.

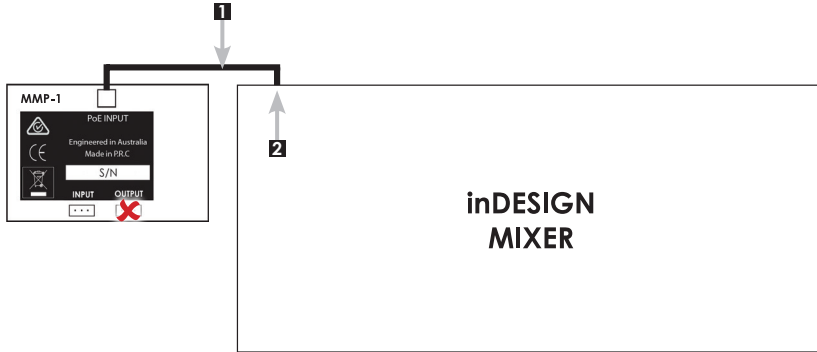


1. RJ45 to RJ45 shielded connectors. Use CAT6A network cable. Max length 100m
2. PoE Power Supply (included)
3. JST3-XLR Male cable (included)
4. Balanced line input of a mixer, mixer amplifier, amplifier or powered speaker

***Note:** in this configuration the balanced line output of the PoE power supply should **not** be used.

inLINK Connection

The MMP-1 may be connected directly into any inDESIGN product that features an inLINK port. For specific installation and user instructions please view the user manual for the specific device you wish to connect the MMP-1 to.



1. RJ45 to RJ45 shielded connectors. Use CAT6A network cable. Max length 100m
2. inDESIGN InLINK Port

***Note:** in this configuration the balanced line output on the rear of the MMP-1 should **not** be used.

SPECIFICATIONS

Product Mounting	Compatible with Clipsal 2000 series mounting accessories
AC Power Supply to PoE	AC 100-240V 50/60Hz
MMP-1 Power Supply DC	PoE 24VDC 1.0A
BT Revision	BT 4.2
BT Range	20 metres
USB Flash Drive	Flash drive capacity MAX 128GB / FAT32 partition
USB Player	MP3: Stereo files @ 128k, 192k, 320k and VBR bit rates
Front panel line input	TRS 3.5mm unbalanced jack (0.3v level, impedance 10K, internal mono sum)
Rear panel line input	JST3 balanced (0.5v level, impedance 10K, mono input)
Rear Panel line output	JST3 balanced (0.5v level, impedance 600ohms, mono output)
PoE line output	RJ45 balanced (0.5v level, impedance 600ohms, mono output)
Product Dimensions HxWxD	76 x 118 x 32 mm (Clipsal 2000 series style mounting)
Product Weight	100 grams
Shipping Dimensions HxWxD	255x200x70 mm
Shipping Weight	660 grams
Included Accessories	PoE power supply , Line in and out cable, RJ45 line cable

*** Disclaimer:** Instructions and specifications are correct at time of printing.
Information within may be subject to change without notice.

WARRANTY INFORMATION – Terms of Warranty – 5 Years**Consumer Guarantees**

When you purchase a NAS Solutions distributed product, you have the peace of mind in knowing that your product is covered by the NAS warranty. The NAS warranty is provided by NAS Solutions (ABN 50 085 679 894), 127 Merrindale Drive, Croydon, Victoria 3136. ['NAS']

The Australian Consumer Law protects consumers by giving them certain guaranteed rights when they buy goods and services. Rights guaranteed under the Australian Consumer Law include;

- The goods are of acceptable quality;
- The goods match their description or any sample or demonstration model;
- The goods are fit for any represented purpose or purpose which the consumer has made known;
- Repairs and spare parts are reasonably available (unless notice has been provided that repairs or spare parts would not be available); and
- The services are carried out with reasonable care and skill and are completed within a reasonable time

These rights are called 'Consumer Guarantees' and apply automatically whenever goods or services are supplied to a consumer. These Consumer Guarantees cannot be refused, changed or limited.

Consumer Guarantees have no set time limit and depending on the price and quality of goods a Consumer may be entitled to a remedy after any manufacturers' or NAS's extended warranty has expired.

The Specific Warranty Table Information outlines the warranty period, warranty type and any specific exclusions for your NAS product. NAS considers the warranty period specified in the Specific Warranty Table to be a reasonable warranty period having regard to the price, design, manufacture and expected use of the product.

General Warranty ('Warranty')

NAS products come with guarantees that cannot be excluded under the Australian Consumer Law. You are entitled to a replacement or refund for a major failure or if the goods fail to be of acceptable quality. You are also entitled to have the goods repaired or replaced if the goods fail to be of acceptable quality and failure does not amount to a major failure. What constitutes a major failure is set out in the Australian Consumer Law.

Subject to the terms and conditions set out below, and unless otherwise specified in the Specific Warranty Information for your NAS product, NAS agrees to repair or replace, at NAS's cost, the NAS product purchased by you in Australia or New Zealand from NAS or a NAS authorised reseller when the product does not perform substantially in accordance with the specifications during the warranty period specified in the Specific Warranty Table for your NAS product. NAS makes no other express warranties in respect of your NAS product. To make a claim under this Warranty, valid proof of purchase must be presented when the warranty claim is made, along with any other required information. The Warranty offered by NAS is not transferable.

The Warranty will only apply if your NAS product has been installed and used in accordance with NAS's recommendations as noted in the operating instructions.

Warranty Exclusions

The Warranty does not cover damage caused by;

- Misuse or abuse of the product by You;
- Incorrect operation or not following the operation instructions (as noted in the operating instructions);
- Improper installation;
- Incorrect or improper maintenance or failure to maintain the product;
- Failure to clean or improper cleaning of the product;
- Incorrect voltage or non-authorised electrical connections;
- Adverse external conditions such as incorrect or fluctuations in electrical voltage, thunderstorm activity, acts of God, acts of terrorism, damage caused by vermin, or any other circumstance beyond NAS's control;
- Exposure to excessive heat, moisture or dampness;
- Exposure to abnormally corrosive conditions;
- Alterations or modifications to the product made by You or a third party; or
- Damage as a result of accident, liquid, grit, impact or lack of proper care as indicated in the operating instructions;
- Damage resulting from the use of cleaning solvents such as acetone

The Warranty does not apply if any serial number or appliance plate on the product has been tampered with, removed or defaced.

The Warranty does not apply if the product has been repossessed under any financial agreement.

The Warranty excludes accessories and consumable goods which have ceased working through normal wear and tear such as, but not limited to, batteries, lamps and other parts classifiable as a consumable part.

This includes the CD mechanism and laser fitted to the inDESIGN iDCDP-110.

These parts carry a 3 month warranty.

The Warranty does not cover the loss of any data howsoever caused. You shall be responsible for backing up and protecting data against loss, damage or destruction.

Products presented for repair may be replaced by refurbished products of the same type rather than being repaired. Refurbished parts may be used to repair the products. Replacement of the product or a part does not extend or restart the Warranty Term.

The product will be at the owner's risk whilst in transit to and from all NAS authorised service centres, unless transported by NAS or its authorised representatives.

NAS and its authorised service centres may seek reimbursement of any costs incurred by them when the product is found to be in good working order.

The cost of claiming under this warranty, including return of any product to NAS is to be borne by the consumer.

The Warranty excludes removal or reinstatement costs.

*** All inDESIGN products come with a 5 year warranty term.**

For further information and warranty claims, refer to our **Support** page at **www.nas.solutions**