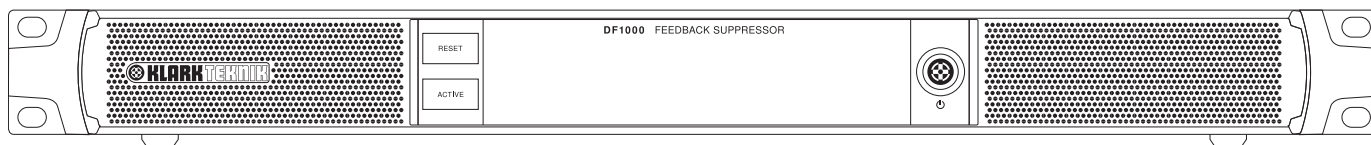


Quick Start Guide

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DF1000

Ultra-Fast and Fully Automatic Dual-Channel Feedback Suppression Processor

1. Introduction

Welcome!

Thank you for purchasing the DF1000 Dual-Channel Feedback Suppression Processor.

Features

- Dual-channel feedback suppression processor designed for fully automatic and zero-configuration setup
- Offers up to 10 dB increase in system gain
- Instantly detects and stops acoustic feedback. Highly effective with both speech and music
- Ultra-fast and highly accurate DSP selects and applies up to 32 filters per channel
- Two fully independent audio channels to process stereo or separate zone signals
- Extremely narrow filters (up to 1/30th octave) to retain overall signal integrity
- Front panel control featuring suppression and filter reset buttons
- Two balanced/unbalanced inputs on combination line level XLR/TRS and 3-pin Euroblock connectors
- Auto-ranging universal switch-mode power supply
- Designed and engineered in England

About this Quick Start Guide

This is the Quick Start Guide for the DF1000 Dual-Channel Feedback Suppression Processor. This Quick Start Guide is intended to help get your unit installed and in operation as quickly as possible by giving you unpacking, installation, connection, setting up and operating instructions. To help familiarise you with the DF1000, there is a description of the front and rear panels, along with easy-to-follow user instructions.

2. Getting Started

This section shows you how to unpack, install, connect up, switch on and configure the DF1000 Dual-Channel Feedback Suppression Processor.



This equipment is supplied by a mains voltage that can cause electric shock injury. Before installing, setting up or operating this equipment, make sure that you have read and fully understand all of this section and the “Important safety instructions” at the front of this document.

Unpacking

Carefully unpack your DF1000 unit. Then, inspect the DF1000 unit carefully for any signs of damage that may have occurred during transit, and then notify the courier immediately if you do discover any damage.

Check the contents of your DF1000 unit equipment package. If there are any parts missing, incorrect or faulty, please contact your local distributor or Klark Teknik at the address at the front of this Quick Start Guide.

Please retain the original packing in case you should need to return the equipment to the manufacturer or supplier, or transport or ship the unit later.

Installation

Before installing and operating this equipment, make sure it is correctly connected to the protective earth conductor of the mains voltage supply socket outlet through each mains lead.

Ideally a cool area is preferred, away from power distribution equipment or other potential sources of interference.

Do not install the equipment in places of poor ventilation.

Do not install this equipment in a location subjected to excessive heat, dust or mechanical vibration. Allow for adequate ventilation around the equipment, making sure that its fans and vents are not obstructed. Whenever possible, keep the equipment out of direct sunlight.

Mount in rack only.

Power

The internal power supply is of the switch mode type that automatically senses the incoming mains voltage and will work where the nominal voltage is in the range 100 VAC to 240 VAC.

The correct leads for connection in the area to which the unit was shipped are supplied with the unit. The equipment should only be plugged into the mains outlets using the supplied leads.

Make sure the plug fitted on the supplied mains cable is securely fitted to the mains IEC connector on the unit. When fitting or removing a plug, always hold the plug itself and never pull on the cable, as this may damage the cable. Never insert or remove an electric plug with wet hands.

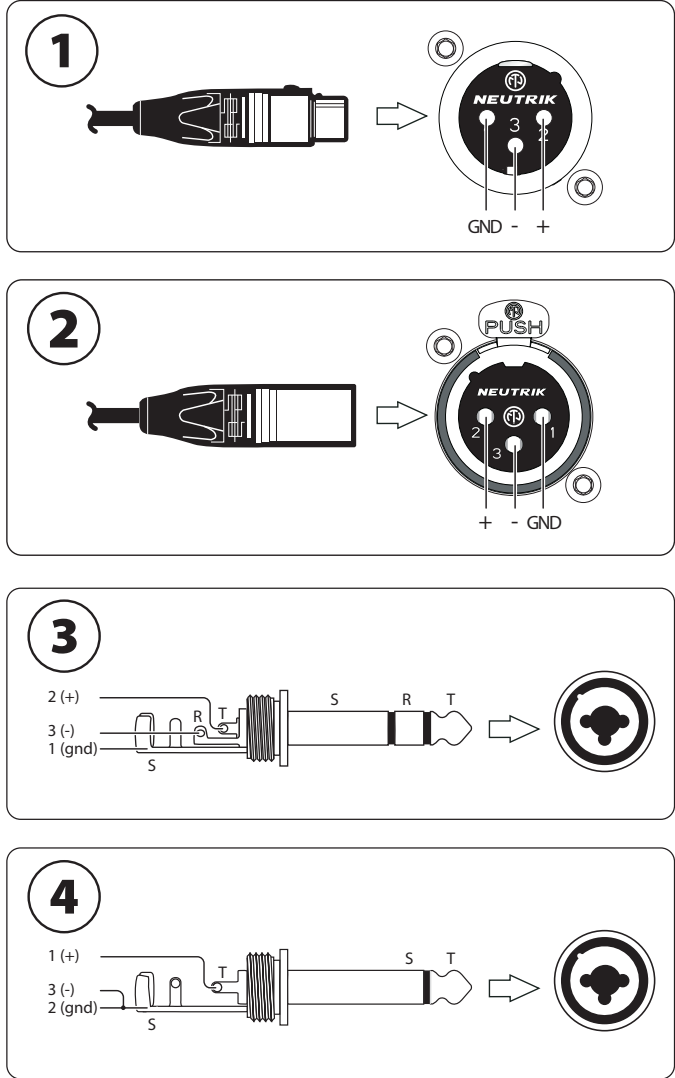
Handling the equipment

When lifting or moving the equipment, always take its size and weight into consideration. Completely isolate the equipment electrically and disconnect all cables from the equipment before moving it.

4. Connectors

To ensure the correct and reliable operation of the equipment, only high quality balanced, screened, twisted pair audio cable should be used. XLR connector shells should be of metal construction so that they provide a screen when connected and, where appropriate, they should have Pin 1 connected to the cable screen.

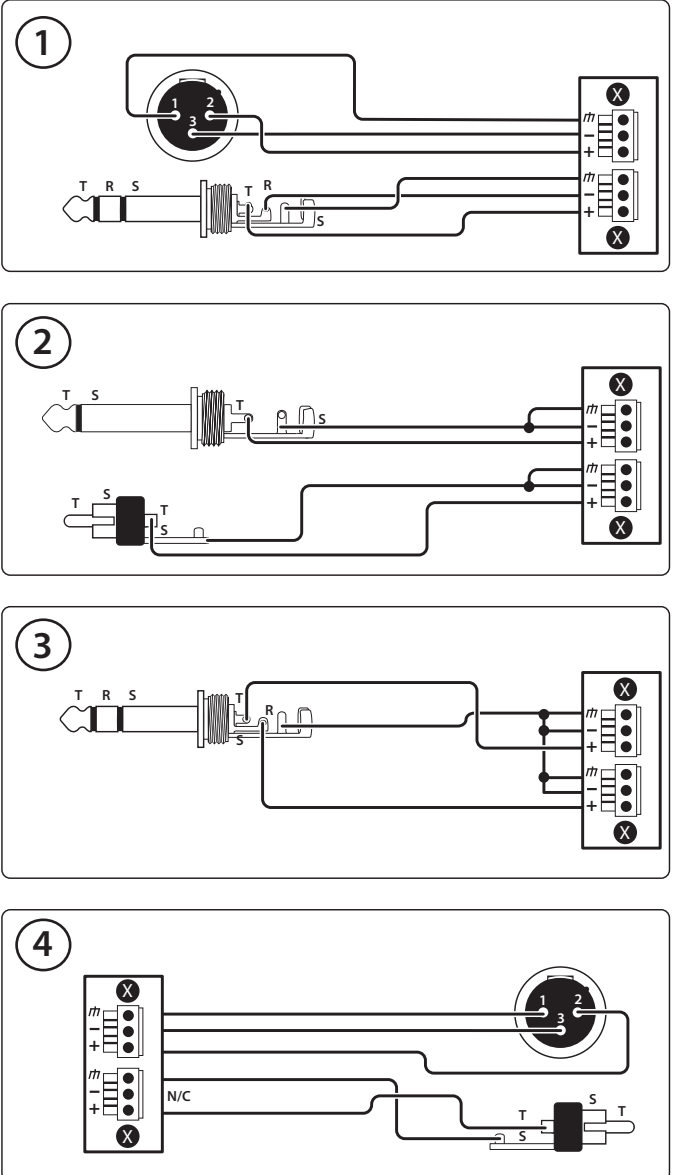
XLR Connectors



- 1 Balanced line output audio connector. Female XLR plug and male XLR chassis connector with the following pinouts: 1 = ground; 2 = hot (+); and 3 = cold (-).
- 2 Balanced line input audio connector. Male XLR plug and female XLR chassis connector with the following pinouts: 1 = ground; 2 = hot (+); and 3 = cold (-). Balanced line input audio connector. Male TRS plug to female combo XLR/1/4" TRS chassis connector with the following pinouts: 1/Sleeve = ground; 2/Tip = hot (+); and 3/Ring = cold (-).
- 3 Unbalanced line input audio connector. Male TS plug to female combo XLR/1/4" TRS chassis connector with the following pinouts: 2, 3/Sleeve = ground/cold (-); and 1/Tip = hot (+).

Euroblock Connectors

DF1000 also uses Euroblock connectors for all analogue audio connections. The following graphics offer guidance for correctly wiring common audio connectors (XLR, 1/4", RCA) to the Euroblock connections.



- 1 Balanced inputs. Male XLR and male 1/4" TRS connectors to Euroblock with the following pinouts: 1/Sleeve = ground; 2/Tip = hot (+); and 3/Ring = cold (-).
- 2 Unbalanced inputs. Male 1/4" TS and RCA connectors to Euroblock with the following pinouts: Sleeve = ground/cold (-); and Tip = hot (+).
- 3 Unbalanced stereo to dual balanced inputs. Male 1/4" TRS connectors to Euroblock with the following pinouts: Sleeve = ground/cold (-); and Tip = hot (+).
- 4 Balanced and unbalanced outputs. Euroblock to female XLR (balanced) and male RCA (unbalanced) with the following pinouts:
XLR: 1 = ground; 2 = hot (+); and 3 = cold (-).
RCA: Sleeve = ground; Tip = hot (+).

Operation

Initial Setup

For a basic first setup with the DF1000 in your sound system, use the following procedure:

- 1 Make all appropriate audio and power connections to the DF1000.
- 2 Power up the sound system's preamp or mixer.
- 3 Power up the DF1000.
- 4 Power up the sound system's power amplifier.
- 5 With the ACTIVE button set to bypass mode, set the sound system's gain for normal system operation.
- 6 Press the ACTIVE button to set the unit to active mode.
- 7 Press the RESET button to clear the memory and reset the filters.
- 8 The DF1000 is now ready for operation and will automatically find problem frequencies and attenuate those frequencies to eliminate feedback.

Bypass Mode

Bypass mode allows you to quickly pull the DF1000 out of the signal path. To use bypass mode, take the following steps:

- 1 Press the ACTIVE button to engage bypass mode.
- 2 Switch between active and bypass modes to hear a comparison between the system's operation with and without feedback suppression.

Filter Reset

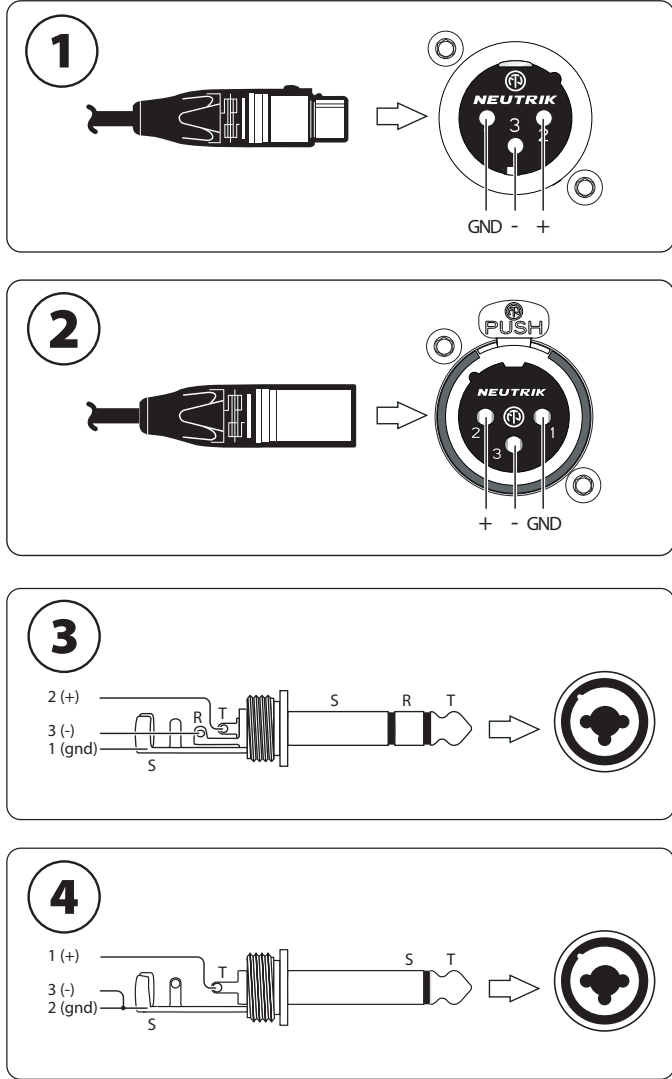
Over time, all of the 32 individual filters per channel may be assigned to problem frequencies. If an additional problem frequency is then detected, the DF1000 will automatically re-assign the first filter to the new problem frequency. It may also be necessary to reset the unit in order to restore the sound system's tonal balance and frequency response.

- 1 Before resetting the unit, reduce the system gain and ensure that all microphones are off.
- 2 Press the RESET button.
- 3 The white background LED will flash to indicate the filters have been reset and the memory is cleared of all settings.
- 4 Slowly increase the gain of each microphone to proper operating level.
- 5 The DF1000 will automatically detect and suppress any problem frequencies.

4. Conectores

Para asegurar el funcionamiento correcto y confiable del equipo, solo se debe usar cable de audio de par trenzado, apantallado y balanceado de alta calidad. Las carcasas del conector XLR deben ser de construcción metálica para que proporcionen una pantalla cuando se conecten y, cuando corresponda, deben tener el Pin 1 conectado a la pantalla del cable.

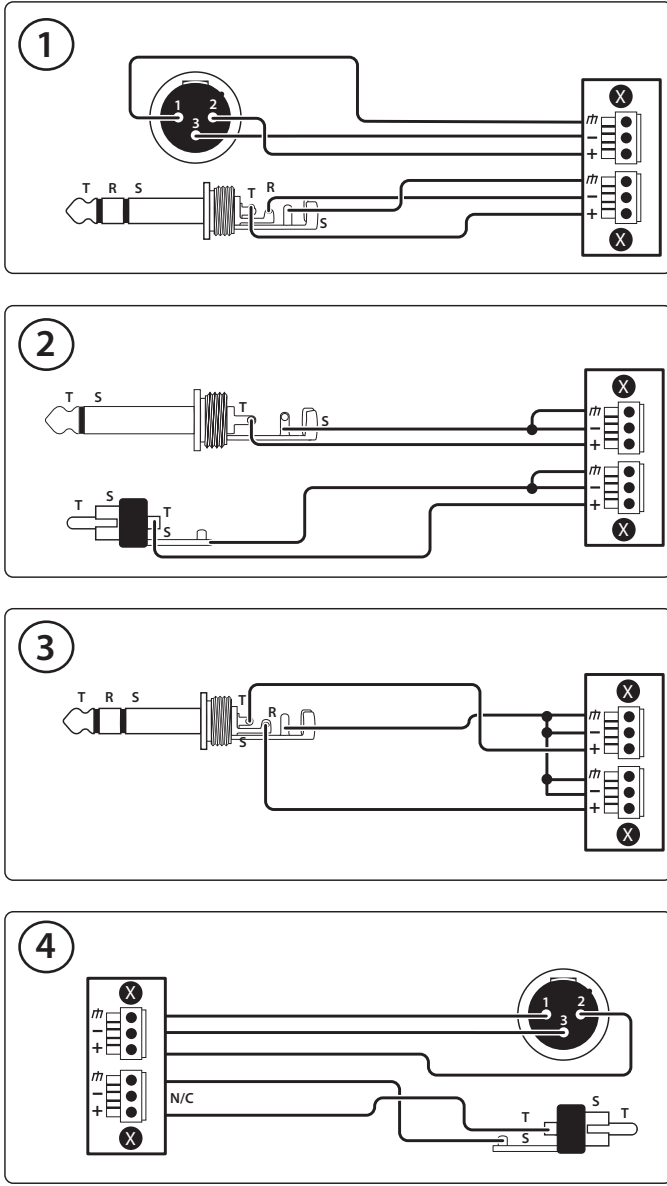
Conectores XLR



- 1 Conector de audio de salida de línea balanceada. Enchufe XLR hembra y conector de chasis XLR macho con los siguientes pines: 1 = tierra; 2 = caliente (+); y 3 = frío (-).
- 2 Conector de audio de entrada de línea balanceada. Enchufe XLR macho y conector de chasis XLR hembra con los siguientes pines: 1 = tierra; 2 = caliente (+); y 3 = frío (-) Conector de audio de entrada de línea balanceada. Enchufe TRS macho a conector de chasis combinado XLR / ¼" TRS hembra con los siguientes pines: 1 / Manga = tierra; 2 / Punta = caliente (+); y 3 / Anillo = frío (-).
- 3 Conector de audio de entrada de línea no balanceado. Enchufe TS macho a conector de chasis combinado XLR / ¼" TRS hembra con los siguientes pines: 2, 3 / Manga = tierra / frío (-); y 1 / Punta = caliente (+).

Conectores Euroblock

DF1000 también utiliza conectores Euroblock para todas las conexiones de audio analógicas. Los siguientes gráficos ofrecen una guía para el cableado correcto de conectores de audio comunes (XLR, ¼", RCA) a las conexiones Euroblock.



- 1 Entradas balanceadas. Conectores XLR macho y TRS macho de ¼" a Euroblock con los siguientes pines: 1 / Manga = tierra; 2 / Punta = caliente (+); y 3 / Anillo = frío (-).
- 2 Entradas desequilibradas. Conectores macho de ¼" TS y RCA a Euroblock con los siguientes pines: Manguito = tierra / frío (-) y Punta = caliente (+).
- 3 Estéreo no balanceado a entradas balanceadas duales. Conectores TRS macho de ¼" a Euroblock con los siguientes pines: Manga = tierra / frío (-); y Punta = caliente (+).
- 4 Salidas balanceadas y no balanceadas. Euroblock a XLR hembra (balanceado) y RCA macho (no balanceado) con los siguientes pines:
XLR: 1 = tierra; 2 = caliente (+); y 3 = frío (-).
RCA: manga = tierra; Consejo = caliente (+).

Operación

Configuración inicial

Para una primera configuración básica con el DF1000 en su sistema de sonido, utilice el siguiente procedimiento:

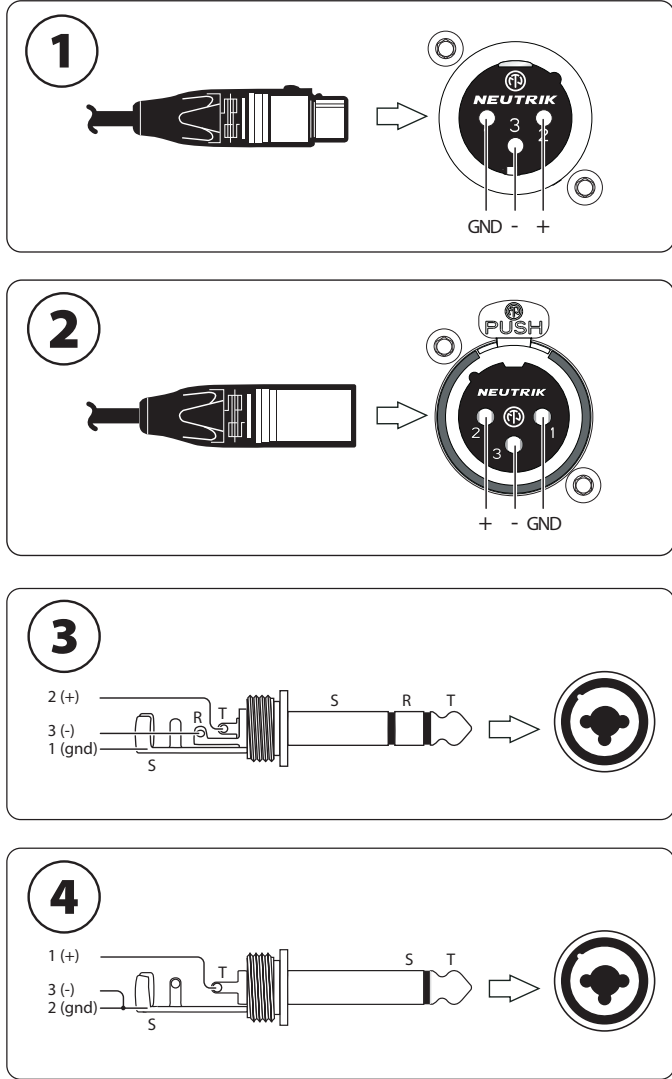
- 1 Realice todas las conexiones de alimentación y audio adecuadas al DF1000.
- 2 Encienda el preamplificador o el mezclador del sistema de sonido.
- 3 Encienda el DF1000.
- 4 Encienda el amplificador de potencia del sistema de sonido.
- 5 Con el botón ACTIVE en modo bypass, configure la ganancia del sistema de sonido para el funcionamiento normal del sistema.
- 6 Presione el botón ACTIVE para configurar la unidad en modo activo.
- 7 Presione el botón RESET para borrar la memoria y restablecer los filtros.
- 8 El DF1000 ya está listo para funcionar y encontrará automáticamente las frecuencias problemáticas y las atenuará para eliminar la retroalimentación.

Modo de derivación

4. Connecteurs

Pour garantir un fonctionnement correct et fiable de l'équipement, seul un câble audio à paire torsadée, blindé et symétrique de haute qualité doit être utilisé. Les coques de connecteur XLR doivent être de construction métallique afin de fournir un écran lorsqu'elles sont connectées et, le cas échéant, elles doivent avoir la broche 1 connectée à l'écran du câble.

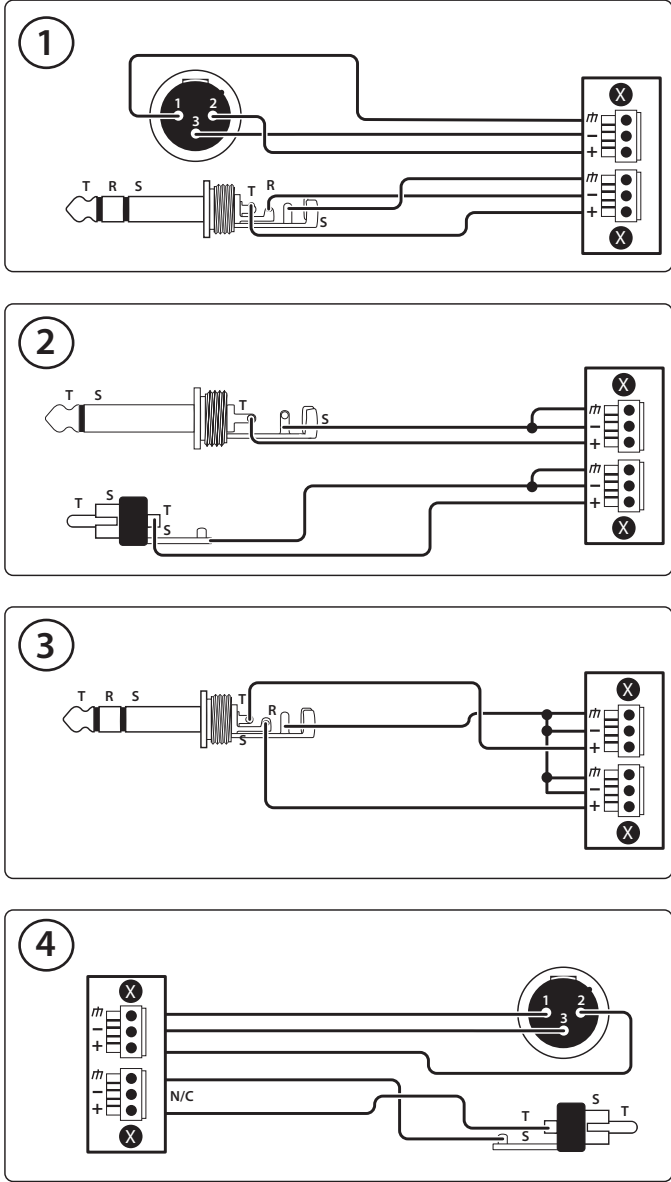
Connecteurs XLR



- 1 Connecteur audio de sortie ligne symétrique. Fiche XLR femelle et connecteur châssis XLR mâle avec les brochages suivants: 1 = masse; 2 = chaud (+); et 3 = froid (-).
- 2 Connecteur audio d'entrée ligne symétrique. Fiche XLR mâle et connecteur châssis XLR femelle avec les brochages suivants: 1 = masse; 2 = chaud (+); et 3 = froid (-) Connecteur audio d'entrée ligne symétrique. Fiche TRS mâle vers connecteur châssis XLR / ¼" TRS femelle avec les brochages suivants: 1 / manchon = masse; 2 / pointe = chaud (+); et 3 / anneau = froid (-).
- 3 Connecteur audio d'entrée de ligne asymétrique. Fiche TS mâle vers connecteur châssis XLR / TRS ¼" combiné femelle avec les brochages suivants: 2, 3 / manchon = masse / froid (-); et 1 / pointe = chaud (+).

Connecteurs Euroblock

Le DF1000 utilise également des connecteurs Euroblock pour toutes les connexions audio analogiques. Les graphiques suivants fournissent des conseils pour le câblage correct des connecteurs audio courants (XLR, ¼", RCA) aux connexions Euroblock.



- 1 Entrées symétriques. Connecteurs XLR mâles et mâles ¼" TRS vers Euroblock avec les brochages suivants: 1 / manchon = masse; 2 / pointe = chaud (+); et 3 / anneau = froid (-).
- 2 Entrées asymétriques. Connecteurs mâles ¼" TS et RCA vers Euroblock avec les broches suivantes: manchon = masse / froid (-) et pointe = chaud (+).
- 3 Stéréo asymétrique vers deux entrées symétriques. Connecteurs TRS mâles ¼" vers Euroblock avec les broches suivantes: manchon = masse / froid (-) et pointe = chaud (+).
- 4 Sorties symétriques et asymétriques. Euroblock vers XLR femelle (symétrique) et RCA mâle (asymétrique) avec les broches suivantes: XLR: 1 = masse; 2 = chaud (+); et 3 = froid (-). RCA: manchon = masse; Astuce = chaud (+).

Opération

La configuration initiale

Pour une première configuration de base avec le DF1000 dans votre système audio, utilisez la procédure suivante:

- 1 Effectuez toutes les connexions audio et d'alimentation appropriées au DF1000.
- 2 Mettez sous tension le préampli ou la table de mixage du système audio.
- 3 Mettez le DF1000 sous tension.
- 4 Mettez l'amplificateur de puissance du système audio sous tension.
- 5 Avec le bouton ACTIVE réglé sur le mode de contournement, réglez le gain du système audio pour un fonctionnement normal du système.
- 6 Appuyez sur le bouton ACTIVE pour mettre l'appareil en mode actif.
- 7 Appuyez sur le bouton RESET pour effacer la mémoire et réinitialiser les filtres.
- 8 Le DF1000 est maintenant prêt à fonctionner et détectera automatiquement les fréquences problématiques et atténuera ces fréquences pour éliminer le larsen.

Mode de contournement

Le mode Bypass vous permet de retirer rapidement le DF1000 du chemin du signal. Pour utiliser le mode de contournement, procédez comme suit:

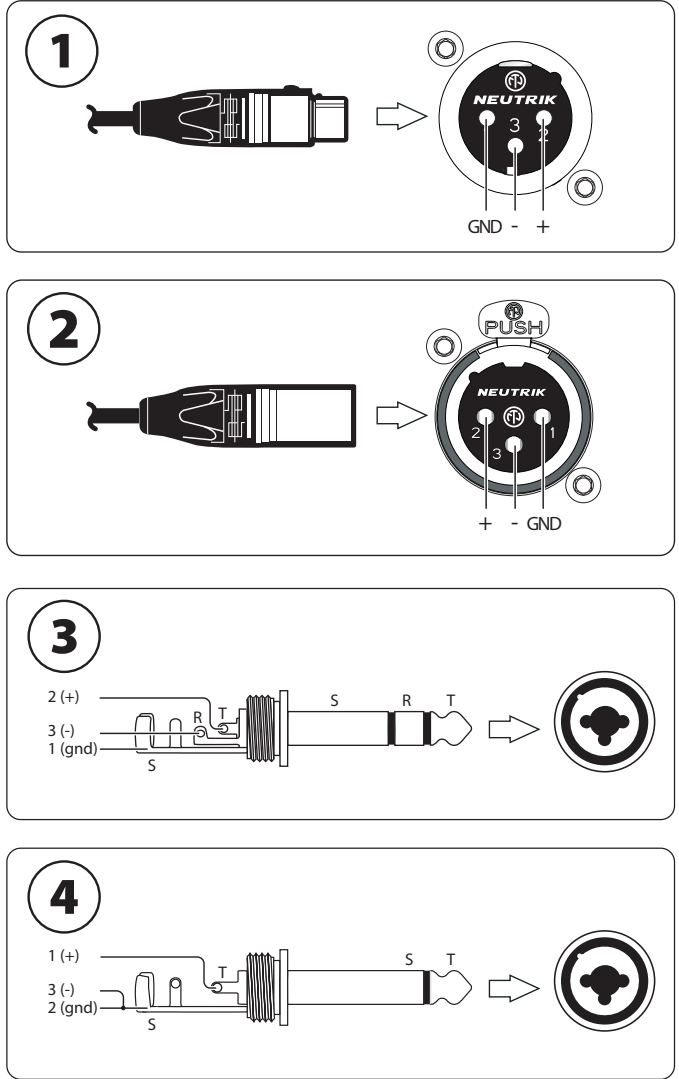
- 1 Appuyez sur le bouton ACTIVE pour activer le mode de contournement.
- 2 Basculez entre les modes actif et bypass pour entendre une comparaison entre le fonctionnement du système avec et sans suppression de rétroaction.

Reset de filtre

4. Anschlüsse

Um den korrekten und zuverlässigen Betrieb des Geräts zu gewährleisten, sollten nur hochwertige, symmetrische, abgeschirmte Twisted-Pair-Audiokabel verwendet werden. XLR-Anschlusschalen sollten aus Metall gefertigt sein, damit sie beim Anschließen einen Bildschirm bieten, und gegebenenfalls sollte Pin 1 mit dem Kabelschirm verbunden sein.

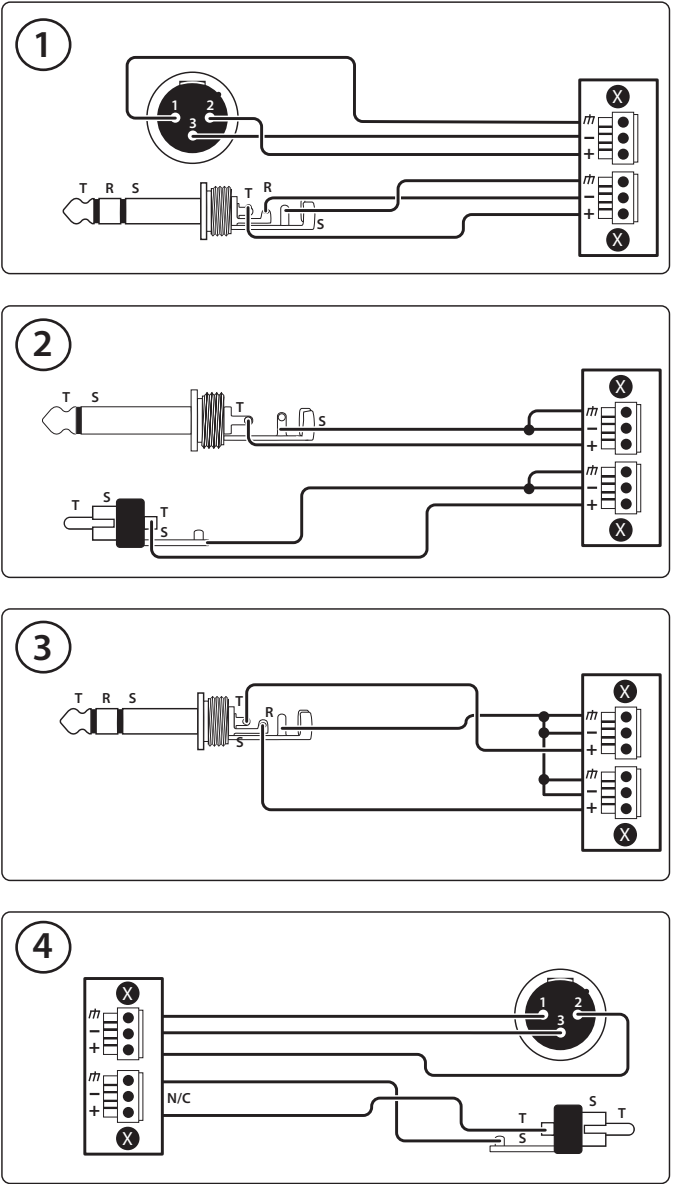
XLR-Anschlüsse



- 1 Audioanschluss mit symmetrischem Leitungsausgang. XLR-Buchse und XLR-Gehäusestecker mit den folgenden Pinbelegungen: 1 = Masse; 2 = heiß (+); und 3 = kalt (-).
- 2 Audioanschluss mit symmetrischem Leitungseingang. XLR-Stecker und XLR-Gehäusestecker mit den folgenden Pinbelegungen: 1 = Masse; 2 = heiß (+); und 3 = kalt (-). Audioanschluss mit symmetrischem Leitungseingang. TRS-Stecker an kombinierte XLR / ¼" TRS-Gehäusestecker mit den folgenden Pinbelegungen: 1 / Hülse = Masse; 2 / Spitze = heiß (+) und 3 / Ring = kalt (-).
- 3 Unsymmetrischer Line-Eingangs-Audioanschluss. TS-Stecker auf XLR / ¼" TRS-Chassis-Steckverbinder mit den folgenden Pinbelegungen: 2, 3 / Hülse = Masse / Kalt (-) und 1 / Spitze = Heiß (+).

Euroblock-Steckverbinder

DF1000 verwendet auch Euroblock-Anschlüsse für alle analogen Audioverbindungen. Die folgenden Grafiken bieten Anleitungen zur korrekten Verkabelung gängiger Audioanschlüsse (XLR, ¼", Cinch) mit den Euroblock-Anschlüssen.



- 1 Symmetrische Eingänge. XLR- und ¼" TRS-Stecker an Euroblock mit den folgenden Pinbelegungen: 1 / Hülse = Masse; 2 / Spitze = heiß (+) und 3 / Ring = kalt (-).
- 2 Unsymmetrische Eingänge. ¼" TS- und Cinch-Stecker an Euroblock mit den folgenden Pinbelegungen: Hülse = Masse / Kälte (-) und Spitze = Heiß (+).
- 3 Unsymmetrische Stereo-Dual-Dual-Eingänge. ¼" TRS-Stecker an Euroblock mit den folgenden Pinbelegungen: Hülse = Masse / Kalt (-) und Spitze = Heiß (+).
- 4 Symmetrische und unsymmetrische Ausgänge. Euroblock zu weiblichem XLR (symmetrisch) und männlichem Cinch (unsymmetrisch) mit folgenden Pinbelegungen:
XLR: 1 = Masse; 2 = heiß (+); und 3 = kalt (-).
Cinch: Hülse = geschliffen; Tipp = heiß (+).

Operation

Ersteinrichtung

Gehen Sie für ein grundlegendes erstes Setup mit dem DF1000 in Ihrem Soundsystem wie folgt vor:

- 1 Stellen Sie alle geeigneten Audio- und Stromanschlüsse zum DF1000 her.
- 2 Schalten Sie den Vorverstärker oder Mixer des Soundsystems ein.
- 3 Schalten Sie den DF1000 ein.
- 4 Schalten Sie den Leistungsverstärker des Soundsystems ein.
- 5 Stellen Sie mit der ACTIVE-Taste im Bypass-Modus die Verstärkung des Soundsystems für den normalen Systembetrieb ein.
- 6 Drücken Sie die ACTIVE-Taste, um das Gerät in den aktiven Modus zu versetzen.
- 7 Drücken Sie die RESET-Taste, um den Speicher zu löschen und die Filter zurückzusetzen.
- 8 Der DF1000 ist jetzt betriebsbereit und findet automatisch Problemfrequenzen und dämpft diese Frequenzen, um Rückkopplungen zu vermeiden.

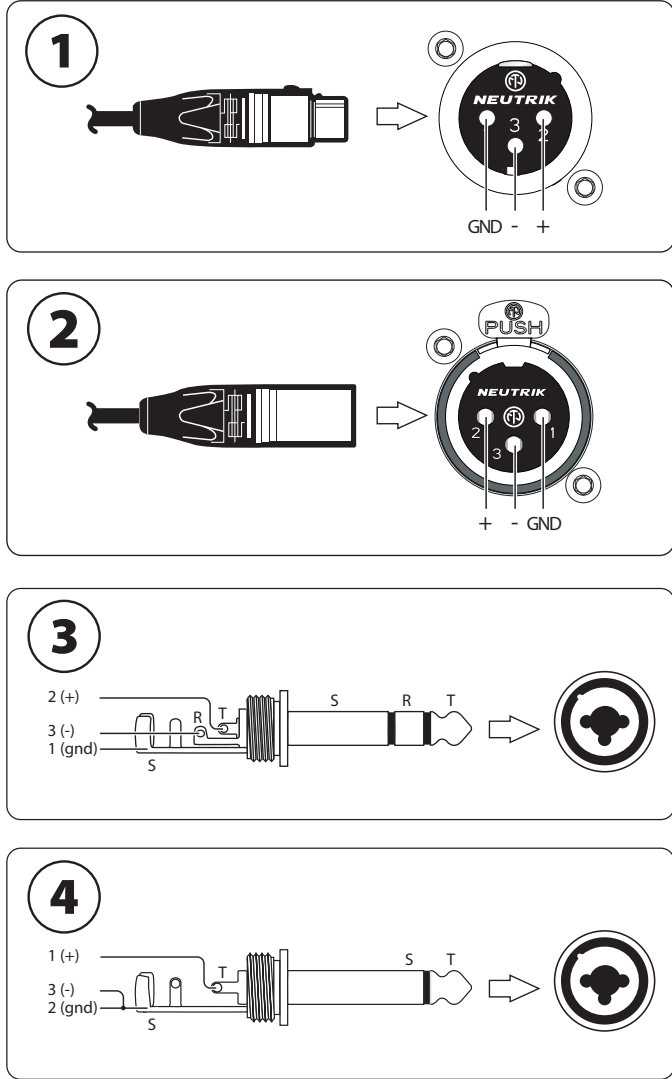
Bypass-Modus

Im Bypass-Modus können Sie den DF1000 schnell aus dem Signalpfad ziehen. Führen Sie die folgenden Schritte aus, um den B

4. Conectores

Para garantir a operação correta e confiável do equipamento, apenas cabos de áudio de par trançado, blindados e balanceados de alta qualidade devem ser usados. Os invólucros do conector XLR devem ser de construção de metal para que forneçam uma tela quando conectados e, quando apropriado, eles devem ter o pino 1 conectado à tela do cabo.

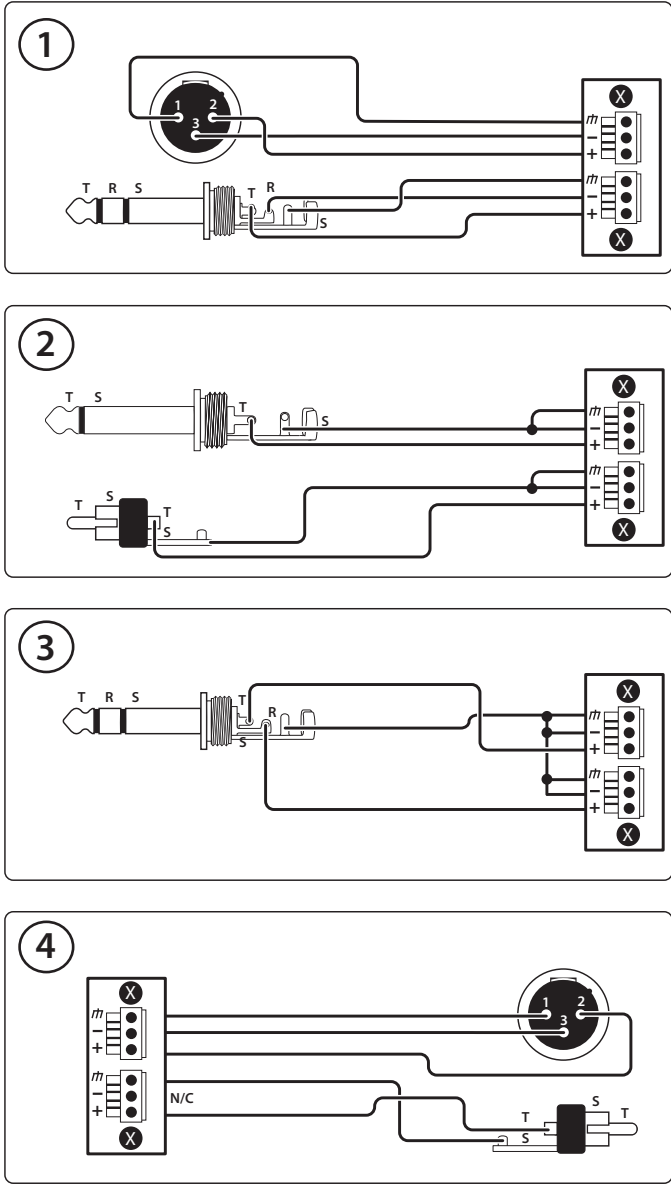
Conectores XLR



- 1 Conector de áudio de saída de linha balanceada. Plugue XLR fêmea e conector de chassi XLR macho com as seguintes pinagens: 1 = aterramento; 2 = quente (+); e 3 = frio (-).
- 2 Conector de áudio de entrada de linha balanceada. Plugue XLR macho e conector XLR fêmea do chassi com as seguintes pinagens: 1 = aterramento; 2 = quente (+); e 3 = frio (-). Conector de áudio de entrada de linha balanceada. Plugue TRS macho para conector fêmea combo XLR / TRS de 1/4" com as seguintes pinagens: 1 / Manga = terra; 2 / Ponta = quente (+); e 3 / Anel = frio (-).
- 3 Conector de áudio de entrada de linha não balanceada. Plugue TS macho para conector de chassi combo fêmea XLR / 1/4" TRS com as seguintes pinagens: 2, 3 / Manga = terra / frio (-); e 1 / Ponta = quente (+).

Conectores Euroblock

O DF1000 também usa conectores Euroblock para todas as conexões de áudio analógico. Os gráficos a seguir oferecem orientação para conectar corretamente os conectores de áudio comuns (XLR, 1/4", RCA) às conexões Euroblock.



- 1 Entradas balanceadas. Conectores XLR macho e macho de 1/4" TRS para Euroblock com as seguintes pinagens: 1 / Manga = terra; 2 / Ponta = quente (+); e 3 / Anel = frio (-).
- 2 Entradas não balanceadas. Conectores macho de 1/4" TS e RCA para Euroblock com as seguintes pinagens: Manga = terra / frio (-); e Ponta = quente (+).
- 3 Estéreo não balanceado para entradas duplas balanceadas. Conectores TRS macho de 1/4" para Euroblock com as seguintes pinagens: Manga = terra / frio (-); e Ponta = quente (+).
- 4 Saídas balanceadas e não balanceadas. Euroblock para XLR fêmea (balanceado) e RCA macho (desbalanceado) com as seguintes pinagens: XLR: 1 = terra; 2 = quente (+); e 3 = frio (-). RCA: Manga = terra; Dica = quente (+).

Operação

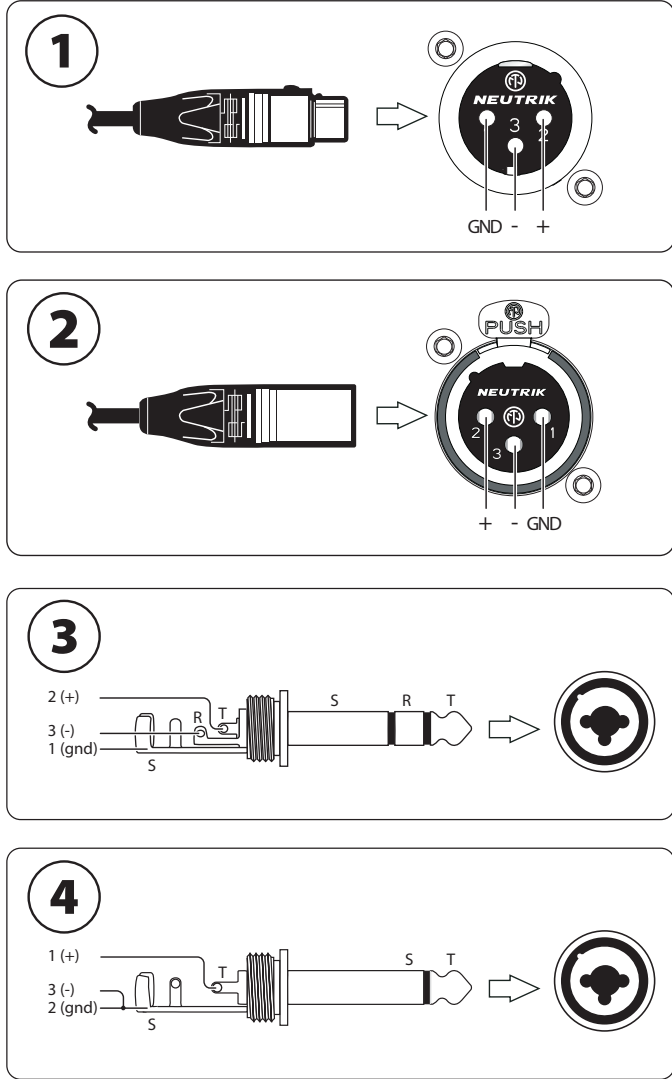
Configuração inicial

Para uma

4. Connettori

Per garantire il funzionamento corretto e affidabile dell'apparecchiatura, è necessario utilizzare solo un cavo audio a doppino intrecciato di alta qualità bilanciato, schermato. I gusci dei connettori XLR devono essere di metallo in modo da fornire uno schermo quando sono collegati e, dove appropriato, dovrebbero avere il Pin 1 collegato allo schermo del cavo.

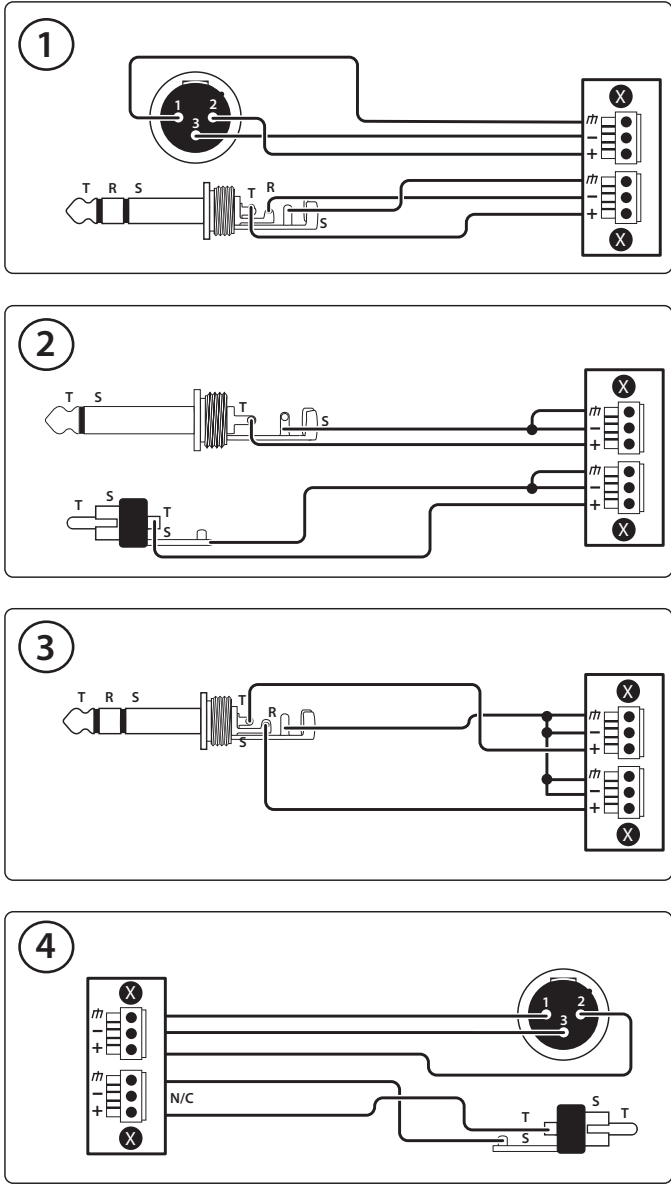
Connettori XLR



- 1 Connettore audio di uscita di linea bilanciato. Spina XLR femmina e connettore chassis XLR maschio con le seguenti piedinature: 1 = massa; 2 = caldo (+); e 3 = freddo (-).
- 2 Connettore audio di ingresso di linea bilanciato. Spina XLR maschio e connettore chassis XLR femmina con le seguenti piedinature: 1 = massa; 2 = caldo (+); e 3 = freddo (-) Connettore audio di ingresso di linea bilanciato. Da spina TRS maschio a connettore XLR femmina / TRS da 1/4" combo con i seguenti pinout: 1 / Manicotto = terra; 2 / Punta = caldo (+); e 3 / Anello = freddo (-).
- 3 Connettore audio di ingresso di linea sbilanciato. Da spina TS maschio a connettore XLR femmina / TRS da 1/4" combo con le seguenti piedinature: 2, 3 / Manicotto = terra / freddo (-); e 1 / Punta = caldo (+).

Connettori Euroblock

DF1000 utilizza anche connettori Euroblock per tutti i collegamenti audio analogici. La seguente grafica offre una guida per il corretto cablaggio dei connettori audio comuni (XLR, 1/4", RCA) alle connessioni Euroblock.



- 1 Ingressi bilanciati. Connettori XLR maschio e maschio TRS da 1/4" a Euroblock con le seguenti piedinature: 1 / Manicotto = terra; 2 / Punta = caldo (+); e 3 / Anello = freddo (-).
- 2 Ingressi sbilanciati. Connettori maschio da 1/4" TS e RCA a Euroblock con le seguenti piedinature: Sleeve = terra / freddo (-); e Tip = caldo (+).
- 3 Da stereo sbilanciato a doppi ingressi bilanciati. Connettori maschio da 1/4" TRS a Euroblock con le seguenti piedinature: Sleeve = terra / freddo (-); e Tip = caldo (+).
- 4 Uscite bilanciate e sbilanciate. Da Euroblock a XLR femmina (bilanciato) e RCA maschio (non bilanciato) con le seguenti piedinature:
XLR: 1 = terra; 2 = caldo (+); e 3 = freddo (-).
RCA: manica = terra; Suggerimento = caldo (+).

Operazione

Configurazione iniziale

Per una prima configurazione di base con il DF1000 nel sistema audio, utilizzare la seguente procedura:

- 1 Effettuare tutti i collegamenti audio e di alimentazione appropriati al DF1000.
- 2 Accendi il preamplificatore o il mixer del sistema audio.
- 3 Accendi il DF1000.
- 4 Accendi l'amplificatore di potenza del sistema audio.
- 5 Con il pulsante ACTIVE impostato sulla modalità bypass, impostare il guadagno del sistema audio per il normale funzionamento del sistema.
- 6 Premere il pulsante ATTIVO per impostare l'unità in modalità attiva.
- 7 Premere il pulsante RESET per cancellare la memoria e ripristinare i filtri.
- 8 Il DF1000 è ora pronto per il funzionamento e troverà automaticamente le frequenze problematiche e attenuerà quelle frequenze per eliminare il feedback.

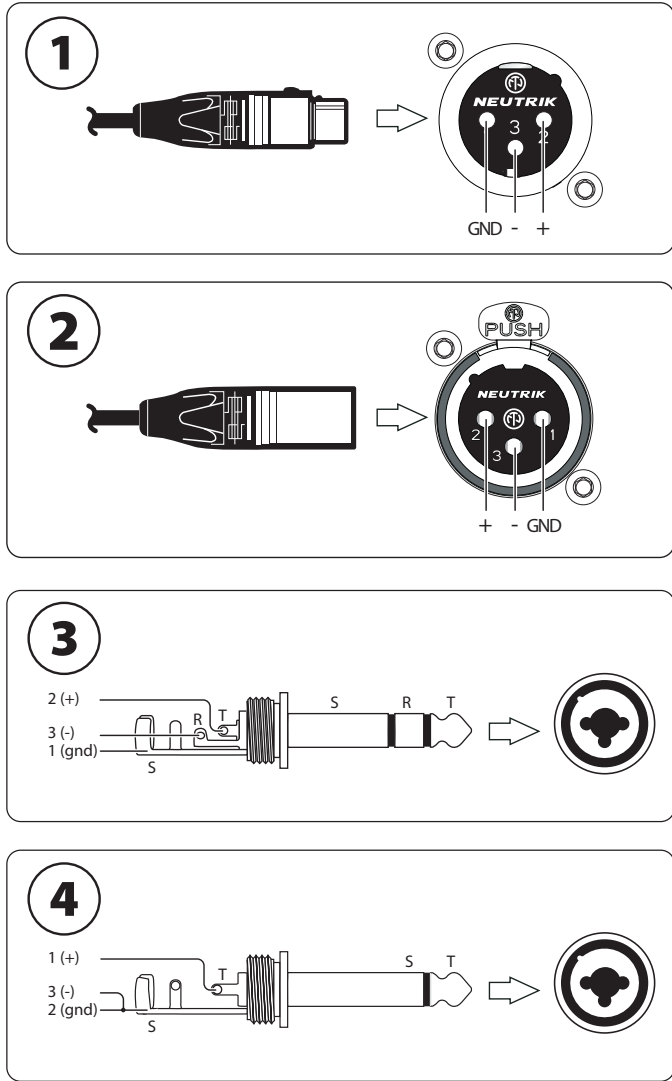
Modalità bypass

La modalità Bypass consente di estrarre rapidamente il DF1000 dal percorso del segnale. Per utilizzare la modalità bypass, procedi nel seguente modo:

4. Connectoren

Om een correcte en betrouwbare werking van de apparatuur te garanderen, mag alleen gebalanceerde, afgeschermd, twisted pair audiokabel van hoge kwaliteit worden gebruikt. XLR-connectorbehuizingen moeten van metaal zijn, zodat ze een afscherming bieden wanneer ze worden aangesloten en, waar van toepassing, pin 1 moet zijn aangesloten op de kabelafscherming.

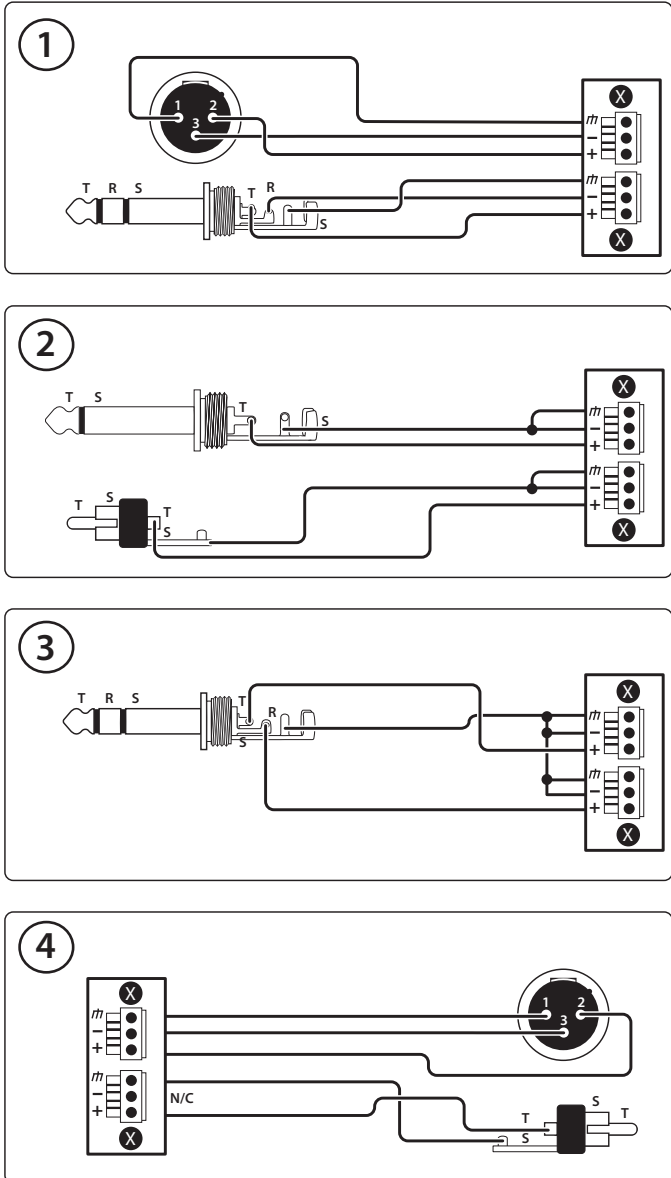
XLR-connectoren



- 1 Gebalanceerde audio-aansluiting voor lijnuitgang. Vrouwelijke XLR-stekker en mannelijke XLR-chassisconnector met de volgende pinouts: 1 = massa; 2 = heet (+); en 3 = koud (-).
- 2 Gebalanceerde audio-aansluiting voor lijningang. Mannelijke XLR-stekker en vrouwelijke XLR-chassisconnector met de volgende pinouts: 1 = massa; 2 = heet (+); en 3 = koud (-). Gebalanceerde audio-aansluiting voor lijningang. Mannelijke TRS-stekker naar vrouwelijke combo XLR / ¼" TRS-chassisconnector met de volgende pinouts: 1 / huls = aarde; 2 / punt = heet (+); en 3 / ring = koud (-).
- 3 Ongebalanceerde audio-aansluiting voor lijningang. Mannelijke TS-stekker naar vrouwelijke combo XLR / ¼" TRS-chassisconnector met de volgende pinouts: 2, 3 / Sleeve = aarde / koud (-); en 1 / Tip = heet (+).

Euroblock-connectoren

De DF1000 maakt ook gebruik van Euroblock-connectoren voor alle analoge audio-aansluitingen. De volgende afbeeldingen bieden richtlijnen voor het correct bedraden van veelgebruikte audioconnectors (XLR, ¼", RCA) naar de Euroblock-aansluitingen.



- 1 Evenwichtige ingangen. Mannelijke XLR en mannelijke ¼" TRS connectoren naar Euroblock met de volgende pinouts: 1 / Sleeve = massa; 2 / Tip = warm (+); en 3 / Ring = koud (-).
- 2 Ongebalanceerde ingangen. Mannelijke ¼" TS- en RCA-connectoren naar Euroblock met de volgende pinouts: huls = massa / koud (-); en punt = heet (+).
- 3 Ongebalanceerde stereo naar dubbele gebalanceerde ingangen. Mannelijke ¼" TRS connectoren naar Euroblock met de volgende pinouts: Huls = massa / koud (-); en Tip = heet (+).
- 4 Gebalanceerde en ongebalanceerde uitgangen. Euroblock naar vrouwelijke XLR (gebalanceerd) en mannelijk RCA (ongebalanceerd) met de volgende pinouts:
XLR: 1 = aarde; 2 = heet (+); en 3 = koud (-).
RCA: mof = aarde; Tip = heet (+).

Operatie

Initiële setup

EN

Specifications

Audio Inputs	
Connections	2 x XLR / TRS combo 2 x 3-pin Euroblock
Input impedance	appr. 20 kΩ
Normal input level	+4 dBu
Max. input level	+21 dBu
Audio Outputs	
Connections	2 x XLR 2 x 3-pin Euroblock
Output impedance	appr. 50 Ω
Normal output level	+4 dBu
Max. output level	+21 dBu
System Information	
Controls	Power on / off Suppression (momentary) Filter reset (momentary)
Indicators	Power Active Reset
Frequency response	20 Hz to 20 kHz,+0/-0.5 dB
Dynamic range	104 dB
THD+N	< 0.01 % @ 20 Hz to 20 kHz, +4 dBu In
Crosstalk	< -81 dB
S/N ratio	>88 dB @ +4 dBu In
CMRR	>45 dB
Processor system gain	0 dB
Additional acoustic gain	10 dB
Digital Signal Processing (DSP)	
Converters	24-bit
Sample rate	48 kHz
Feedback Suppressor (FBQ)	
Feedback reduction method	Automatically detect and apply notch filter
Filters	32 independent digital notch filters per channel
Filters width	min. 1/126th octave, max. 1/38th octave
Resolution	0.2 Hz
Time required to find one feedback mode	100 – 400 msec
Time required to find multiple feedback modes	2 – 4 sec
Power Supply	
Type	Auto-switching power supply
Mains voltage (all regions)	100 – 240 VAC, 50/60 Hz
Fuse	T 1.25 A H 250 V
Power consumption	10 W
Mains connector	Standard IEC receptacle
Dimensions/Weight	
Dimensions (H x W x D)	50 x 483 x 296 mm (XU) (2.0 x 19.0 x 11.6")
Weight	2.9 kg (6.4 lbs)
Temperature Range	
Operation	+0° C to +45° C
Storage	-20° C to +60° C

Due to a policy of continual improvement, Klark Teknik reserves the right to alter the function or specification at any time without notice.

技术参数

音频输入	
连接数	2 x XLR / TRS 组合 2 x 3 针 Euroblock
输入阻抗	约 20 kΩ
普通输入电平	+4 dBu
最大限度。输入水平	+21 dBu
音频输出	
连接数	2 x XLR 2 x 3 针 Euroblock
输出阻抗	约 50 Ω
正常输出水平	+4 dBu
最大限度。输出水平	+21 dBu
系统信息	
控制项	开机/关机 抑制 (瞬间) 过滤器重置 (瞬时)
指标	力量 积极的 重置
频率响应	20 Hz 至 20 kHz, + 0 /-0.5 dB
动态范围	104 dB
THD + N	<0.01% @ 20 Hz 至 20 kHz, +4 dBu In
相声	<-81 dB
信噪比	> 88 dB @ +4 dBu In
CMRR	> 45 dB
处理器系统增益	0 dB
额外的声增益	10 dB
数字信号处理 (DSP)	
转换器	24 位
采样率	48 kHz

FEDERAL COMMUNICATIONS COMMISSION COMPLIANCE INFORMATION

Klark Teknik

DF1000

Responsible Party Name: **Music Tribe Commercial NV Inc.**
Address: **122 E. 42nd St.1, 8th Floor NY, NY 10168, United States**
Email Address: **legal@musictribe.com**

DF1000

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

This equipment 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 undesired operation.

Important information:

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



Hereby, Music Tribe declares that this product is in compliance with Directive 2014/35/EU, Directive 2014/30/EU, Directive 2011/65/EU and Amendment 2015/863/EU, Directive 2012/19/EU, Regulation 519/2012 REACH SVHC and Directive 1907/2006/EC.

Full text of EU DoC is available at <https://community.musictribe.com/>

EU Representative: Music Tribe Brands DK A/S
Address: Gammel Strand 44, DK-1202 København K, Denmark

UK Representative: Music Tribe Brands UK Ltd.
Address: 8th Floor, 20 Farringdon Street London EC4A 4AB, United Kingdom



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.

