

## BROADCAST TELEPHONE HYBRID



## USER MANUAL v 1.4

### DM Broadcast

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Dear Customer,

Thank you for choosing the Broadcast Telephone Hybrid.

The Broadcast Telephone Hybrid is designed by specialists in the field of broadcast and is intended to be used for a lot of conversations with your guests during your live programs or production.

We are confident that you will be using the Broadcast Telephone Hybrid for many years to come, and wish you much success.

With kind regards,

DM Broadcast Team

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## **WARNING and SAFETY**

***Before attempting any operation, please follow the safety instructions contained in the following paragraph.***

The producer declines any liability for damage to people or things due to non-compliance, even if partial, of the following indications:

- Check the integrity of the product after removing the packaging.
- Ensure that the supply voltage corresponds to what is indicated on the apparatus.
- Ensure that the electrical system is equipped with a ground connection.
- Use only power sockets and cables with ground connection.
- Disconnect power before attempting any operation inside the device.
- The power cutting device is the power cord, so this should be easily accessible and the socket must be positioned close to the apparatus.
- Any operation involving the access to internal parts must be performed only by trained technician.
- Use only accessories suggested by the producer.
- Don't use this apparatus near water.
- Don't use objects that contains liquids near the mixer.



***This Symbol means that there is High Voltage inside the apparatus, so pay attention from electric shock.***



## WARRANTY

The equipment is warranted for a period of 2 years from the date of invoice. The warranty does not cover faults provoked by carelessness, natural causes and parts subject to wear.

The warranty will be voided if the equipment is mishandled. We suggest to contact the DM Technical Assistance first.

## TECHNICAL SUPPORT

Our Technical service answer 24 hours on 24 every day, so don't hesitate to contact us for any question or problem.

Our contacts are:

**Phone:** +39 051 817657 - **mail:** [support@dmbroadcast.it](mailto:support@dmbroadcast.it)

## BOX CONTENT

- Broadcast Telephone Hybrid;
- User Manual;
- Power cord VDE - Schuko;
- GSM Antennas (on model with GSM Gateway integrated).

## **DECLARATION OF CONFORMITY:**

Manufacturer Name: DM Broadcast s.r.l. Unipersonale

Manufacturer Address: Via Degli Orti,1 - Funo di Argelato - Bologna, Italy

Product Name: **DM Broadcast Telephone Hybrid**



Date: 18/11/2016

Authorized Company Representative:

**Marco Giovannini**  
CEO of DM Broadcast Engineering s.r.l.

Title of Signatory:

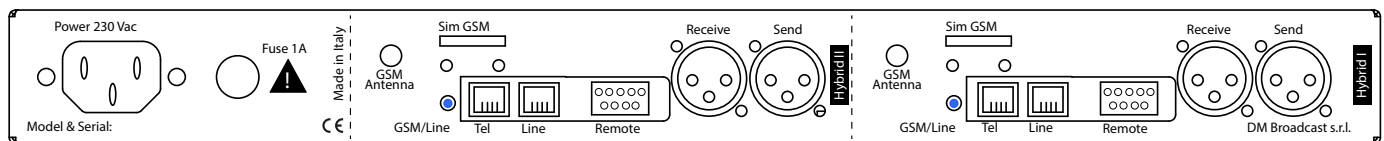
The image shows a handwritten signature in black ink, which appears to be "Marco Giovannini".

## DESCRIPTION

The telephone hybrid is composed of two internal hybrids to use two telephone lines in the same time. The Hybrid can work with external telephone lines or with GSM (ATTENTION: to use the GSM version you need the sim cards with no pin code and you must be shure that the GSM/LINE button on the rear of the machine is released).

On the front of the machine there are two leds for each hybrid (only on the GSM version) to monitoring the status of the GSM module and the coverage of the sim. You have also the possibility to set the correct signals level of the telephone calls by using the potentiometers on the front of the machine.

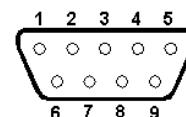
## REAR CONNECTION



- Input (SEND): Every hybrid have the input connection (SEND) with XLR Female connector to connect the audio output of the mixer (Telco Module) to the input of the hybrid.
- Output (RECEIVE): Every hybrid have the output connection (RECEIVE) with XLR Male connector to connect the audio output of the hybrid to the input of the mixer (Telco Module).
- External telephone connection (TEL): Each module of the hybrid have a RJ-11 connector to connect an external telephone to the hybrid.
- External telephone line connection (LINE): Each module of the hybrid have a RJ-11 connector to connect an external telephone line to the hybrid.
- SIM GSM: Sim slot for the sim card (available only on the GSM version).
- GSM Antenna: Connector for the external antenna of the GSM module (available only on the GSM version).
- GSM/LINE: Blue Button to set the operating mode: Released (GSM); Pressed (LINE).

## - REMOTE:

| Pin | Function                                                                                                          |
|-----|-------------------------------------------------------------------------------------------------------------------|
| 1   | GND                                                                                                               |
| 2   | HOOK Contact (+) for compatibility with DM Audio Mixer (or other mixers that support the remote control function) |
| 3   | HOOK Contact (-) for compatibility with DM Audio Mixer (or other mixers that support the remote control function) |
| 4   | GND                                                                                                               |
| 5   | External HOOK control, connect to PIN 4                                                                           |
| 6   | RING Function (+)                                                                                                 |
| 7   | n.c. contact                                                                                                      |
| 8   | 820 ohm Resistance to PIN 1 for compatibility with DM Audio Mixer                                                 |
| 9   | RING Function (-)                                                                                                 |



9 pin Male Connector

This REMOTE connector is a 9 pin male connector located on the back of each Hybrid module of the Telephone Hybrid.

It can be used to connect the Hybrid to an external audio mixer (for example to the DM-24 Broadcast Console). Connecting the Hybrid to the mixer is possible control the Ring and Hook function of the Hybrid directly from the mixer channel.

## HOW TO USE THE HYBRID



- The Telephone Hybrid work with two telephone lines (or GSM Lines) and it can be connected to your audio mixer on the Telco Modules.

- HOOK: by pressing this button it is possible send the telephone call signal to the Audio Mixer Input (Telco). It is possible answer directly from the hybrid by this button. When the line is hooked the button blue led will come on.

To drop the call press the button again.

- CALL: by pressing this button it is possible activate the ring function of the hybrid, so once a call is coming, the internal ring start and the button star flashing (red).

- SEND and RECEIVE potentiometers: it is possible adjust the levels of the telephone call signal (send and receive).

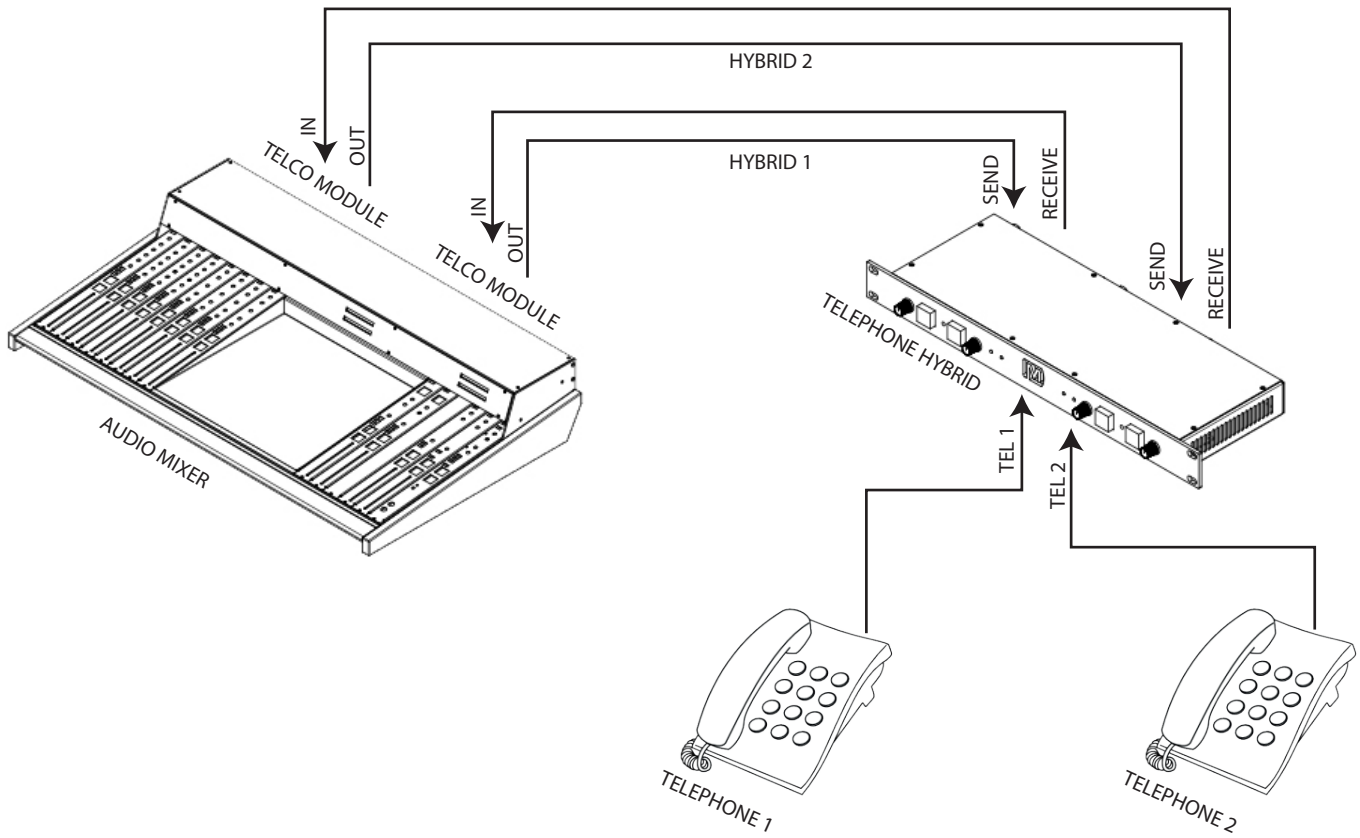
- ADJ screw on the front of the machine: adjust the value of the “N-1” function.

- On the GSM version of the Telephone Hybrid there are two leds on the front of the machine: ON and M.

When the ON led (red) flashing, it means that the GSM module inside the hybrid is on;

When the M led (yellow) is flashing, it means that you have the coverage for your sim card.

## EXAMPLE OF CONNECTION



## **TECHNICAL SPECIFICATIONS:**

| <b>GENERAL</b>           |                            |
|--------------------------|----------------------------|
| Power Supply             | 110 V/230 V -> (+/-) 12 V, |
| Dimensions               | 480x160x45 mm              |
| Weight                   | 2,20 kg net excl packing   |
| Telephone Line Impedance | Nominally 600 Ohm          |

| <b>SEND</b>         |                  |
|---------------------|------------------|
| Impedance           | 10 kOhm          |
| Maximum input level | (+)24dBu         |
| Nominal input level | (+)4dBu          |
| Frequency Response  | 20Hz - 15kHz     |
| Connector           | XLR 3 pin Female |

| <b>RECEIVE</b>       |                |
|----------------------|----------------|
| Impedance            | 10 kOhm        |
| Maximum output level | (+)24dBu       |
| Nominal output level | (+)4dBu        |
| Frequency Response   | 20Hz - 15kHz   |
| Connector            | XLR 3 pin Male |

| <b>DIMENSIONS</b>                        |
|------------------------------------------|
| 480x200x45 (mm) (width x depth x height) |

| <b>WEIGHT</b> |
|---------------|
| 2 kg          |

## WEEE Directive – Informativa RAEE



In line with EU Directive 2002/96/EC for waste electrical and electronic equipment (WEEE), this electrical product must not be disposed of as unsorted municipal waste. Please dispose of this product by returning it to the point of sale or to your local municipal collection point for recycling.

In Übereinstimmung mit der Richtlinie 2002/96/EG des Europäischen Parlaments und des Rates über Elektro- und Elektronik-Altgeräte (WEEE) darf dieses Elektrogerät nicht im normalen Hausmüll oder dem Gelben Sack entsorgt werden. Wenn Sie dieses Produkt entsorgen möchten, bringen Sie es bitte zur Verkaufsstelle zurück oder zum Recycling-Sammelpunkt Ihrer Gemeinde.

Conformément à la Directive 2002/96/EC sur les déchets d'équipements électriques et électroniques (DEEE), ce produit électrique ne doit en aucun cas être mis au rebut sous forme de déchet municipal non trié. Veuillez vous débarrasser de ce produit en le renvoyant à son point de vente ou au point de ramassage local dans votre municipalité, à des fins de recyclage.

In navolging van richtlijn 2002/96/EG van het Europees Parlement en de Raad betreffende afgedankte elektrische en elektronische apparatuur (AEEA) mag dit elektrische product niet als ongescheiden huisvuil worden weggedaan. Breng dit product terug naar de plaats van aankoop of naar het gemeentelijke afvalinzamelingspunt voor recycling.

In ottemperanza alla Direttiva UE 2002/96/EC sui rifiuti di apparecchiature elettriche ed elettroniche (RAEE), questo prodotto elettrico non deve essere smaltito come rifiuto municipale misto. Si prega di smaltire il prodotto riportandolo al punto vendita o al punto di raccolta municipale locale per un opportuno riciclaggio.

De conformidad con la Directiva 2002/96/CE de la UE sobre residuos de aparatos eléctricos y electrónicos (RAEE), este producto eléctrico no puede desecharse con el resto de residuos no clasificados. Deshágase de este producto devolviéndolo al punto de venta o a un punto de recogida municipal para su reciclaje.

I henhold til EU-direktiv 2002/96/EF om affald af elektrisk og elektronisk udstyr (WEEE) må dette udstyr ikke bortskaffes som usorteret husholdningsaffald. Bortskaf dette produkt ved at returnere det til salgsstedet eller til det lokale indsamlingssted, så det kan genbruges.

I linje med EU-direktiv 2002/96/EG om avfall som utgörs av eller innehåller elektriska eller elektroniska produkter (WEEE) får denna elektriska produkt inte bortskaffas som osorterat kommunalt avfall. Bortskaffa den i stället genom att lämna in den på försäljningsstället eller din lokala återvinningsstation.

EU:n sähkö- ja elektroniikkalaiteromudirektiivin (2002/96/EY) mukaisesti tätä elektroniikkalaitetta ei saa laittaa lajittelemattoman yhdyskuntajätteen sekaan. Hävitä laite palauttamalla se ostopaikkaan tai viemällä se elektroniikkaromun keräyspisteeseen.

De acordo com a Directiva Europeia 2002/96/EC sobre resíduos sólidos de equipamento eléctrico e electrónico (WEEE), este produto eléctrico não pode ser deixado fora juntamente com o lixo municipal indiferenciado. Por favor, no final da vida útil deste produto, devolva-o ao estabelecimento de aquisição, ou entregue no local de recolha apropriado para reciclagem designado pelo seu município.

V souladu se smrnici EU . 2002/96/ES o odpadních elektrických a elektronických zařízeních (OEEZ) se tento elektrický výrobek nesmí likvidovat jako neřídinný komunální odpad. Při likvidaci tento výrobek vraťte prodejci nebo ho odevzdejte k recyklaci do komunálního sborného zařízení.

Vastavalt EL direktiivile 2002/96/EÜ, mis käsitleb elektri- ja elektroonikaseadmete jäätmeid (WEEE), ei või antud toodet visata majapidamisjäätmete hulka. Palun tagastage antud toode taaskasutamise eesmärgil müügipunkti või kohaliku piirkonna jäätmekogumise punkti.

V súlade so smernicou 2002/96/ES o odpade z elektrických a elektronických zariadení (OEEZ) sa toto elektrické zariadenie nesmie odstraňovať ako netriedený komunálny odpad. Výrobok odstraňte jeho vrátením v mieste nákupu alebo odovzdaním v miestnom zbernom zariadení na recyklovanie.

## **DM PEOPLE**



## **DM HQ**



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