CCP1116

Commentary Panel

Quick Guide

Document Reference 1.2
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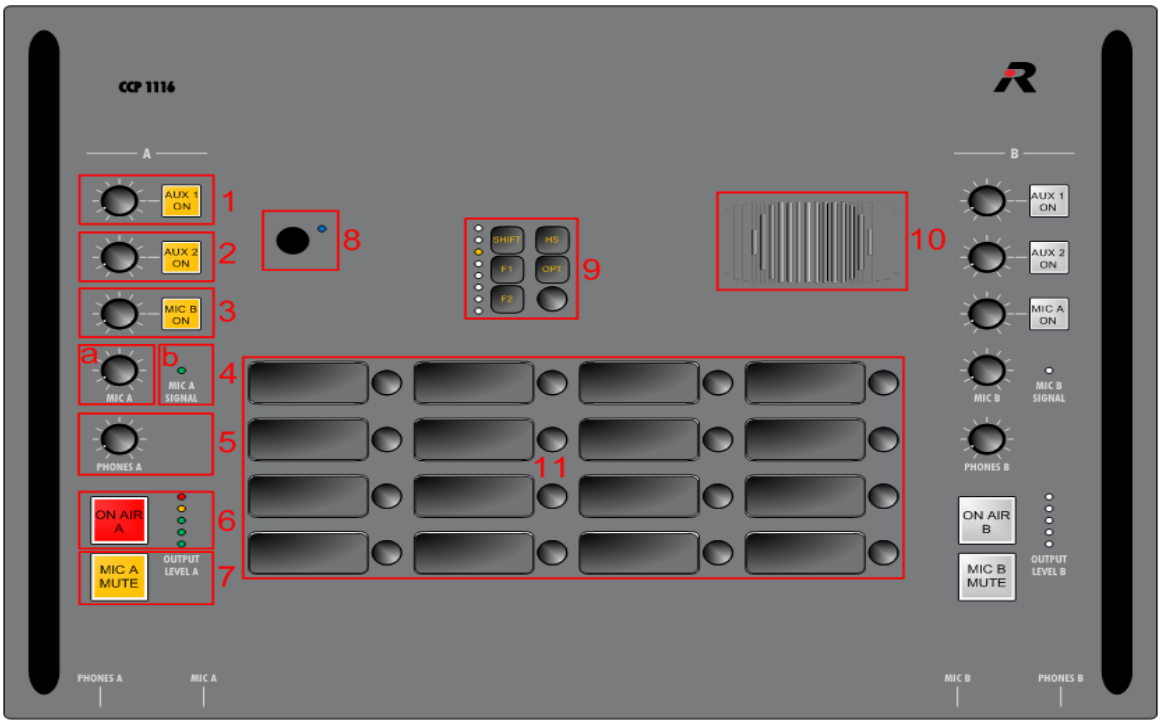
01/2013

TABLE OF CONTENT

1 CONTROL ELEMENTS - DESCRIPTION



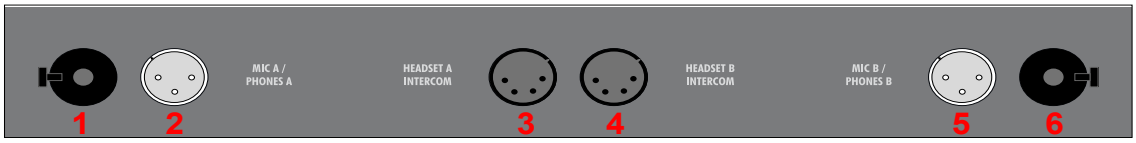
Nr.	Function	Description
1	AUX 1 ON	Activating the button: Mixes analog input „AUX 1“ from the **rear side** to the Headphones (depending of the dip-settings on the **rear side** to the left-, right- or both ears). The button will light up in yellow. With the Levelmeter you can adjust the listen level.
2	AUX 2 ON	Activating the button: Mixes analog input „AUX 2**“ from** the **rear side** to the Headphones (depending of the dip-settings on the **rear side** to the left-, right- or both ears). The button will light up in yellow. With the Levelmeter you can adjust the listen level.
3	MIC B ON	Activating the button: Mixes the MIC B from 2nd commentator to the Headphones (depending of the dip-settings on the **rear side** to the left-, right- or both ears). The button will light up in yellow. With the Levelmeter you can adjust the listen level.
4a	MIC A	**Sidetone:** Mixes **the *“MIC A”* signal** to the Headphones **A** (depending of the dip-settings on the **rear side** to the left-, right- or both ears). With the Dip switch *“Always”* you can choose to activate the Sidetone always or only when *ON AIR* is pressed
4b	MIC A Signal LED	Indicates green, as soon a signal from MIC A is coming into the CCP-1116. LED-color changes to orange, when the signal is clipping
5	PHONES A	Adjust the outgoing volume to Phones A
6	ON AIR A *(Latching)*	Activates the “*ON AIR*” function. When activated, the Button light up red. The “*MIC A*” is sent to the analog outputs “*AIR A OUT*” and “*AIR A+B OUT*”. Also GPI IN 1 is internally activated and can be used within the Artist configuration. The Level meter is showing the ON AIR Mic level with green and orange LEDs
7	MIC A MUTE *(Momentary)*	Mute the “*MIC A*” input. When activated the button light up yellow. If “ON AIR” is activated, also this button changes color to yellow. The “MIC MUTE” buttons can also be activated via GPO 1 (A) and 2 (B) within the Artist configuration

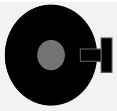
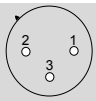
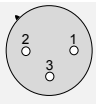
8	Intercom Mic	Connector for standard Artist microphones. Normally not used for commentary mode, only when the CCP-1116 is used as ordinary Intercom panel.
9	Function keys	Standard Artist panel function keys (Shift, HS, OPT, F1, F2) + Master Volume. ATTENTION: The Master Volume is not influencing the volume of Phones A or B
10	Speaker	Panel speaker. Normally not used for commentary mode, only when the CCP-1116 is used as ordinary Intercom panel.
11	Intercom OLED keys	Standard keys, to be configured within the Artist configuration

1-7 is identically also for Commentator B

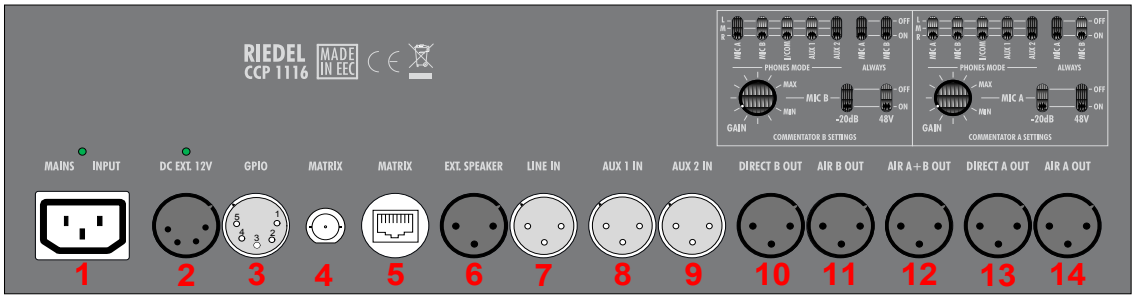
2 CONNECTORS

2.1 Connectors front side



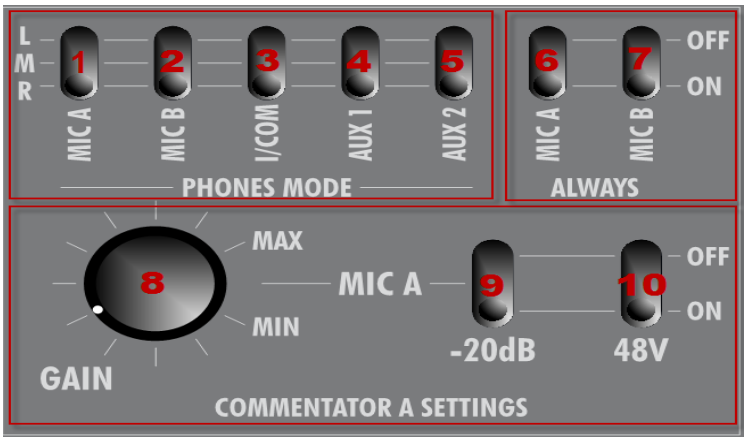
Nr.	Function	Connector Type	Artist Director	Pin out
1	PHONES A	 6,35mm Stereo Jack	Audio Patch: Audio OUT A	Tip: Left Ring : Right Sleeve: GND
2	MIC A	 XLR3 female	Audio Patch: Audio IN A	Pin 1 : Shield Pin 2 : Signal + (hot) Pin 3 : Signal – (cold)
3	HEADSET A INTERCOM (only for pure Intercom use)	 XLR4 male	Audio Patch: Headset A	Pin 1: Shield (Mic -) Pin 2: MIC + (+4V - switchable within Director) Pin 3: Phones – Pin 4: Phones +
4	HEADSET B INTERCOM (only for pure Intercom use)	 XLR4 male	Audio Patch: Headset B	Pin 1: Shield (Mic -) Pin 2: MIC + (+4V - switchable within Director) Pin 3: Phones – Pin 4: Phones +
5	MIC B	 XLR3 female	Audio Patch: Audio IN B	Pin 1 : Shield Pin 2 : Signal + (hot) Pin 3 : Signal – (cold)
6	PHONES B	 6,35mm Stereo Jack	Audio Patch: Audio OUT B	Tip: Left Ring : Right Sleeve: GND

2.2 Connectors rear side



Nr.	Function	Connector Type	Artist	Pin out
1	Main Input			90-265V, 47-63Hz
2	DC EXT. 12V	XLR4 male		Pin 1: GND Pin 2: n.c. Pin 3: n.c. Pin 4: +10 ...+14VDC (3A)
3	GPIO	XLR5 female	Panel GPI IN 3 Panel GPI Out 3	Pin 1: OUT - (> Director: GPI Out 3) Pin 2: OUT + (> Director: GPI Out 3) Pin 3: IN - (> Director: GPI IN 3) Pin 4: IN + (> Director: GPI IN 3) Pin 5: +5V (250mA) Shield: Ground
4	MATRIX (BNC)	BNC		Pin: Tx/RX Data + Shield: Tx/Rx Data -
5	MATRIX (CAT5)	CAT5		Pin 1: TxD + Pin 2: TxD – Pin 3: RxD + Pin 6: RxD -
6	Ext. Speaker	XLR3 male	Audio Patch: Ext. OUT	Tip: Left Ring : Right Sleeve: GND
7	LINE IN	XLR3 female	Audio Patch: External MIC *(only available in Speaker Mode)*	Pin 1 : Shield Pin 2 : Signal + (hot) Pin 3 : Signal – (cold)
8	AUX 1 IN	XLR3 female	n.a.	See 7
9	AUX 2 IN	XLR3 female	n.a.	See 7
10	DIRECT B OUT (permanent)	XLR3 male	n.a.	See 6
11	AIR B OUT	XLR3 male	n.a.	See 6
12	AIR A+B OUT	XLR3 male	n.a.	See 6
13	DIRECT A OUT (permanent)	XLR3 male	n.a.	See 6
14	AIR A OUT	XLR3 male	n.a.	See 6

3 REAR SIDE - DIP SWITCHES

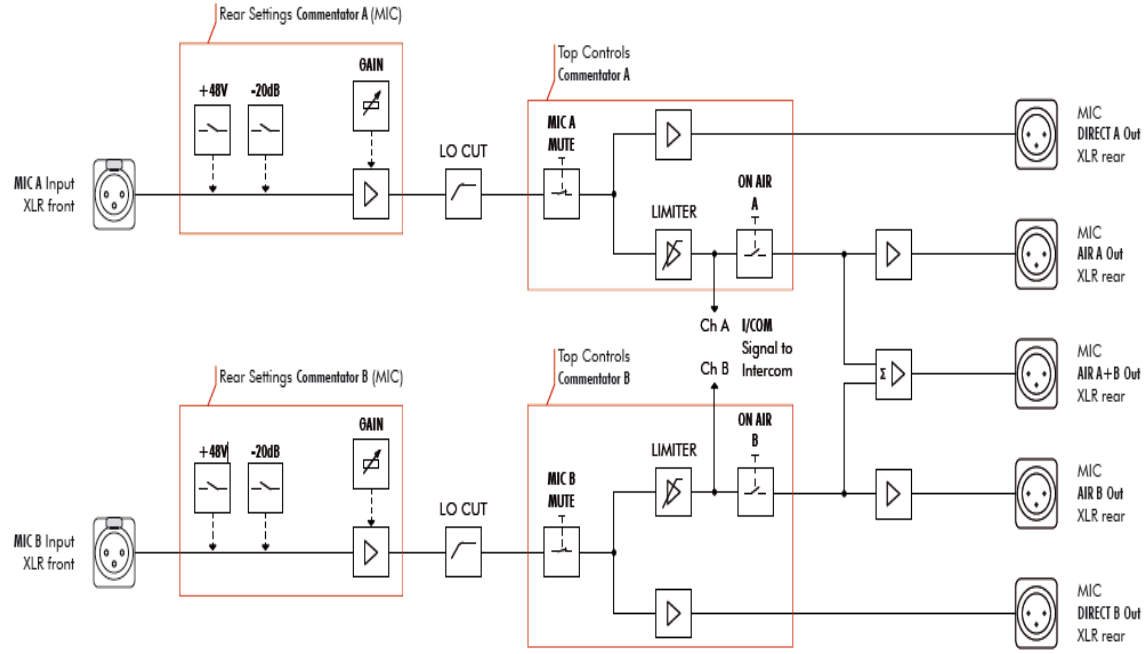


Example for Commentator A. Identical functionality for Commentator B

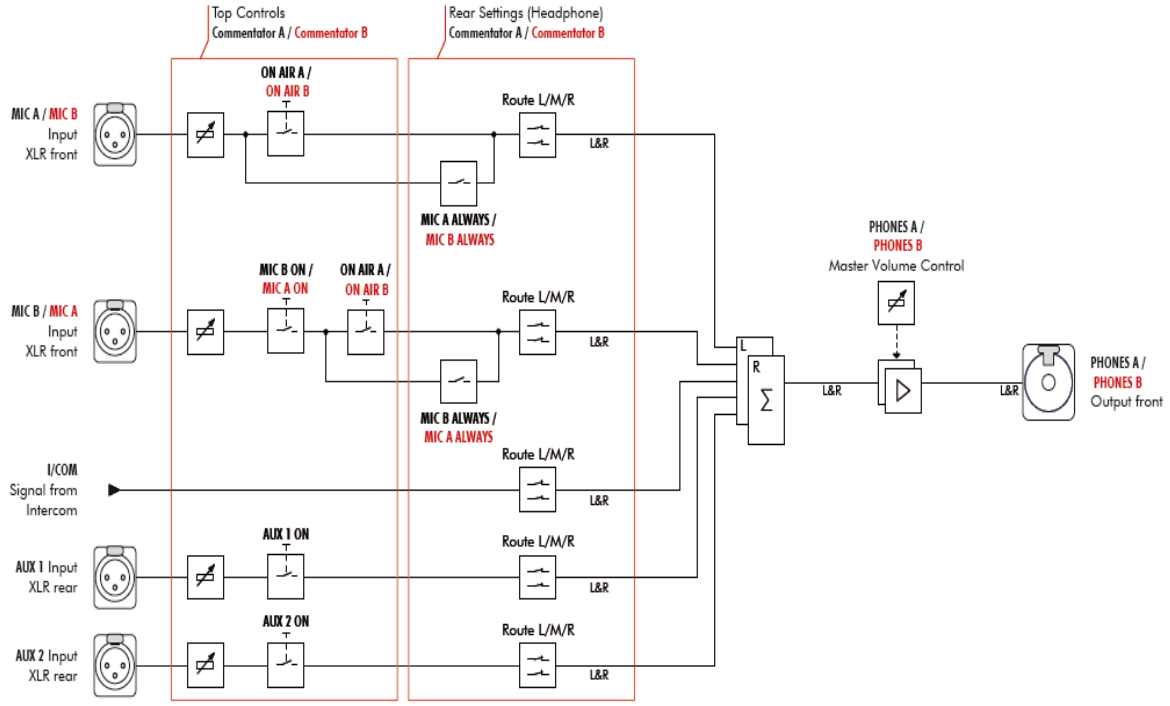
Nr.	Function Group	Function	Description
1	PHONES MODE	MIC A	Routes *MIC A* signal (Sidetone) to left-(L), right- (R), or both ears (M)
2	PHONES MODE	MIC B	Routes *MIC B* signal to left-(L), right- (R), or both ears (M)
3	PHONES MODE	I/COM	Routes *Intercom* signal to left-(L), right- (R), or both ears (M)
4	PHONES MODE	AUX 1	Routes *AUX 1* signal to left-(L), right- (R), or both ears (M)
5	PHONES MODE	AUX 2	Routes *AUX 2* signal to left-(L), right- (R), or both ears (M)
6	ALWAYS	MIC A	Sidetone MIC A: Always routed to the phones A, or only when “ON AIR A” is pressed
7	ALWAYS	MIC B	MIC B signal always routed to the phones or only when “ON AIR B” is pressed. Only works when “*MIC B ON*” is activated.
8	MIC Settings	GAIN	Adjust Mic Input gain
9	MIC Settings	-20dB	Switch between Dynamic- (OFF) and Electret Microphone (-20dB ON)
10	MIC Settings	48V	Switch 48V Phantom power ON/OFF

4 AUDIO BLOCK DIAGRAM

MIC Block Diagram



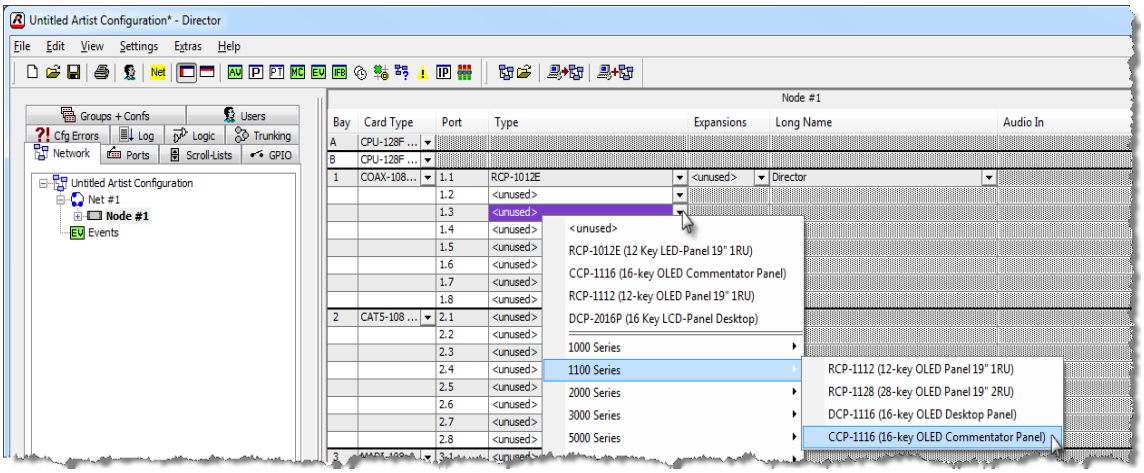
PHONES A / PHONES B Block Diagram



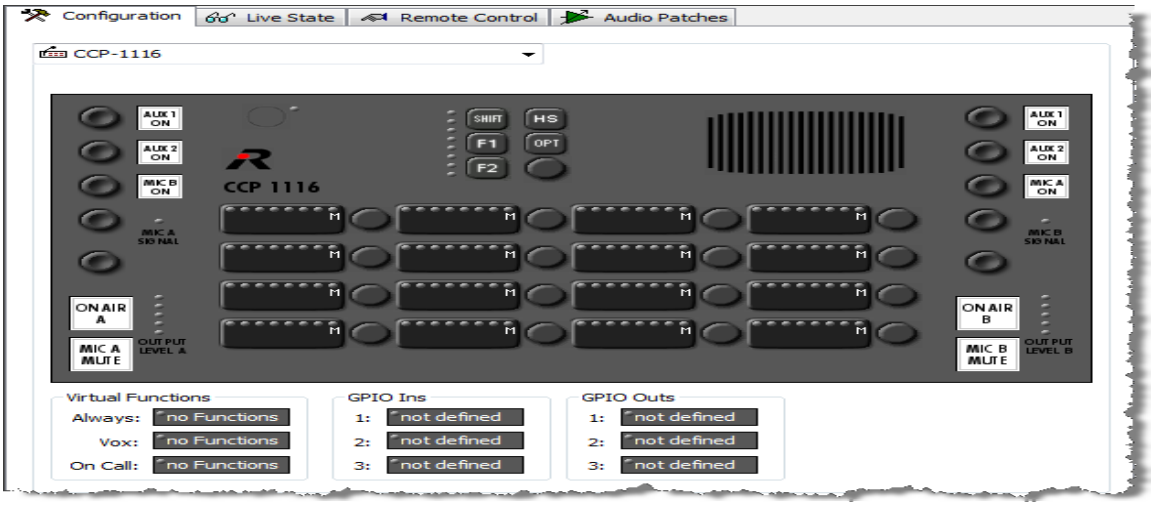
5 DIRECTOR CONFIGURATION OF A CCP-1116

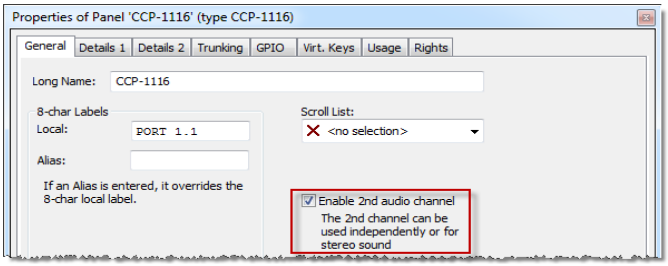
When you want to use the CCP-1116 Commentary panel with its full functionality for 2 commentators, you have to adapt some configuration settings in the Director.

First you have to create a new CCP-1116 on an odd digital port (for 2channel operation) and activate „***enable 2nd Audio channel***“ in the properties of the port.



Open the Panel view with a double click on the port.



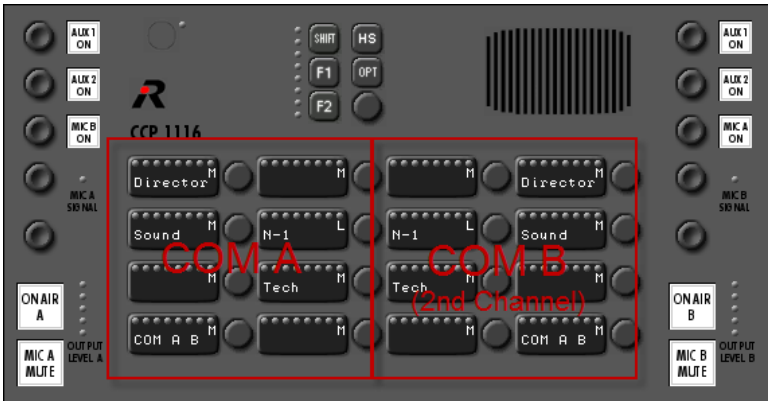


Hint: Up from Director 6.60 the CCP will be created automatically as a 2-channel port, when you add it to an odd port and the following port is unused.

5.1 Key assignment Commentator A/B

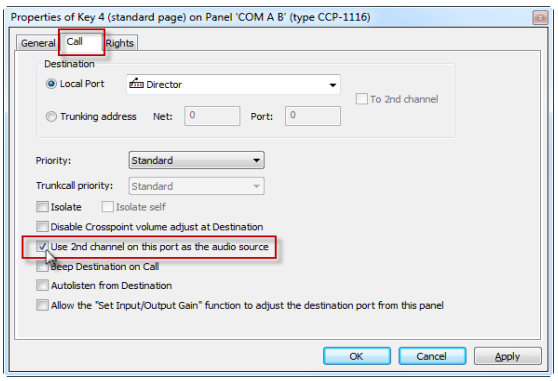
Attention: The commentator Function buttons, like „*ON AIR, MIC Mute, AUX1, AUX2, etc*“ cannot be configured and monitored in Remote control in the Director. They are just showing the Design of the CCP-1116.

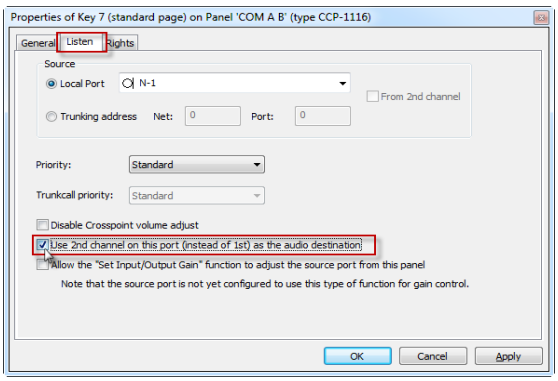
Now you can add all needed functions and calls to the keys of the CCP-1116 with drag and drop. When you want to use the panel with 2 commentators you can virtually split the keys for example in the middle and configure functions for Commentator A on the left and for commentator B on the right keys.



Please keep in mind that on all functions for the **Commentator B** the **2nd audio channel** as source has to be enabled. You can find this option in the properties of the audio functions.

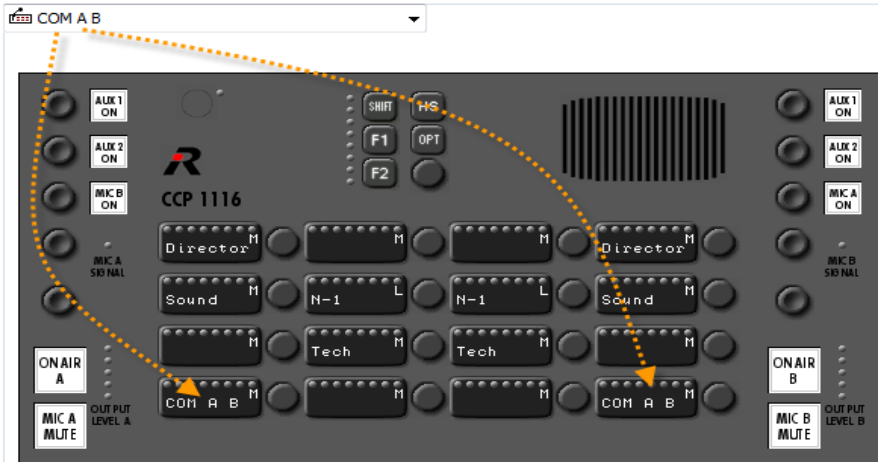
So open the properties of the keys with audio functionality for **Commentator B** one after the other and **enable the 2nd audio channel** as source **for *“Call to…”*** functions, and also as **source for *“Listen to…”*** functions.



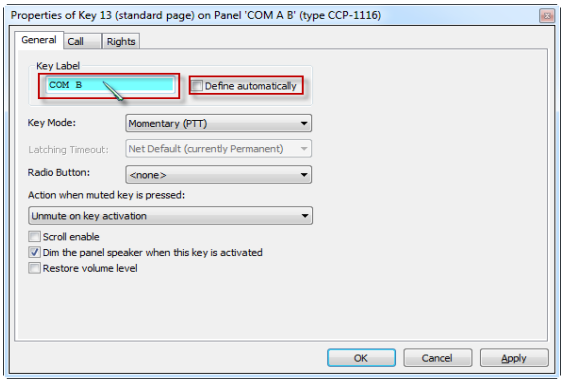


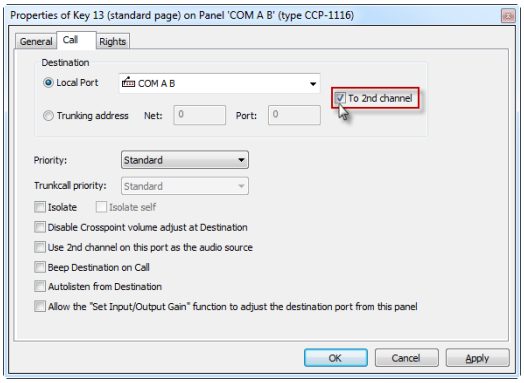
When commentator **A** needs to talk directly with commentator **B** and reverse, just drag and drop this CCP-1116 panel to both sides of the panel to create “*Call to port*” functionality. Afterwards it is recommended to edit the key label of both keys manually.

ATTENTION: The other possibility is to activate the keys „*MIC B ON*“, resp. „*MIC A ON*“ direct on the CCP-1116 to route the Mic signal of the other commentator permanently to the own Phone-mix.

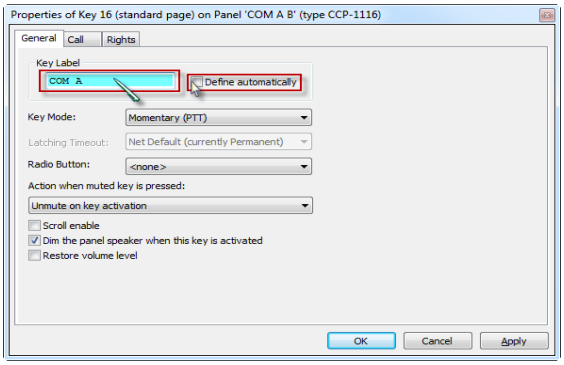


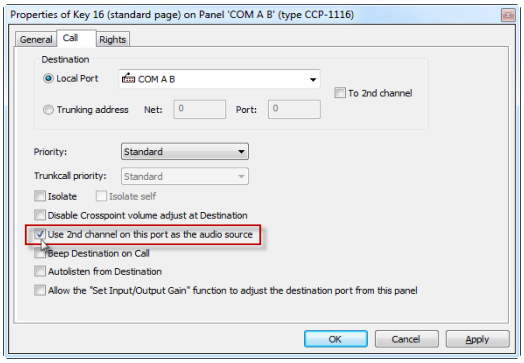
Commentator A -> B





Commentator B -> A





Please keep in mind, that on audio functions on other ports to call/listen to the Commentator B also the 2nd audio channel of the CCP-1116 have to be used. Therefore you have to activate the flag "*to 2nd channel*" in the properties of the function. It is useful to manually label the key in "*Com B*" or similar.

ATTENTION: For the Commentator B there are some limitations at the moment:

- **Reply is not working correctly for the Commentator B (for the 2nd audio channel)**
- **It is not possible, to use an IFB from the IFB-Tabelle for the 2nd Commentator. Here you have to configure an IFB in the „*manual*" way for the 2nd audio channel.**

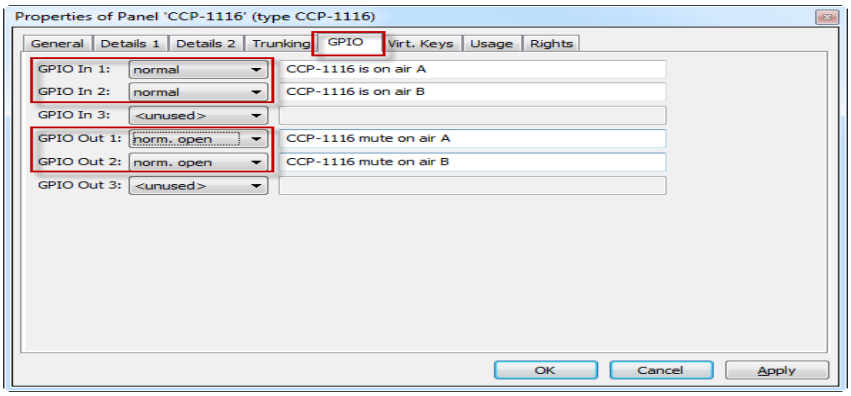
5.2 GPIO functions

Open the „***Properties***“ of the CCP-1116 to define the GPIOs.

GPIO IN 1 and **2** can be used within the Artist system to signalize activated „***ON AIR***“ buttons on the CCP-1116 somewhere and somehow in the system.

GPIO Out 1 and **2** are used internally in the CCP-1116 to activate the “***MIC Mute***” buttons, for example when the Commentator is talking to an Intercom destination while he is on air.

Both GPIOs will be labeled automatically with the panel name and functionality.

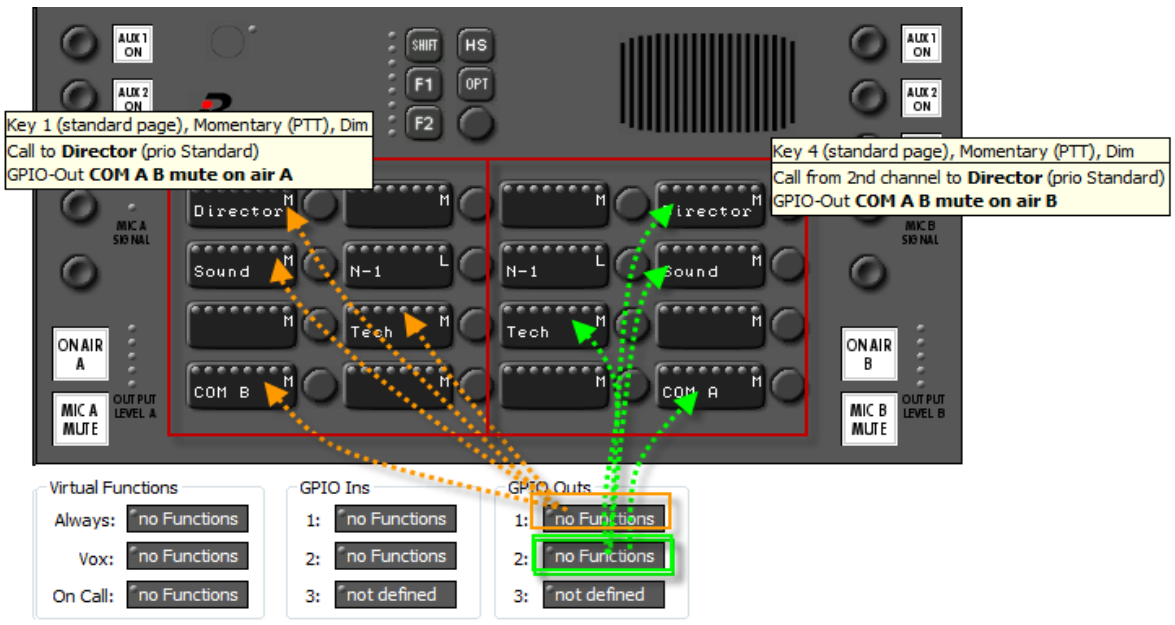


GPIO IN 3 and **GPIO OUT 3** are the only ones, which can be used **individually**.

The GPIO 3 is available on a XLR5 pin connector on the rear side of the CCP-1116.

Now you can drag and drop GPO 1 and 2 to all the intercom buttons, that are able to activate the microphone of the panel (Call to Port, Call to Group, Call to Conference), to automatically activate the On Air “*MIC MUTE*” button of the corresponding Commentator-side.

For only listen functions (*Listen to*) an assigned GPO is not necessary.



5.3 Commentary Audiopatch settings

Finally you have to adjust the internal audio routing of the Audio patches in the CCP-1116.

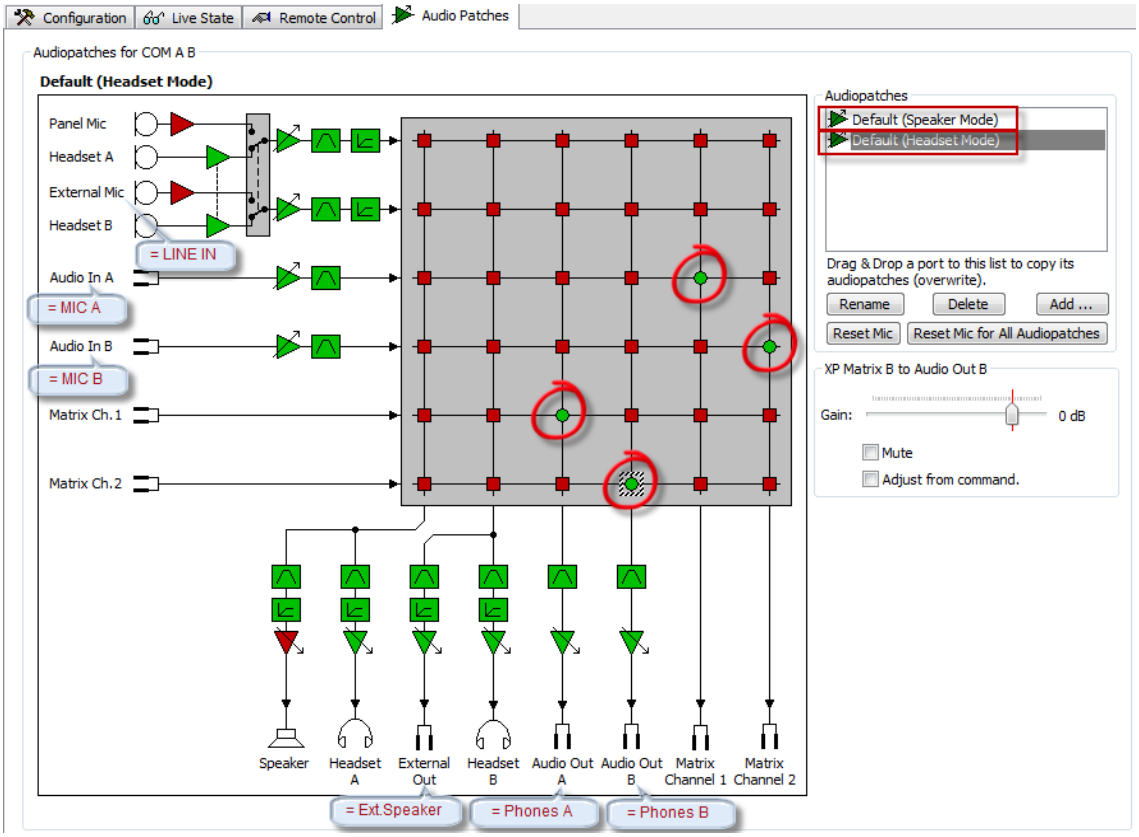
Up to Director Version 6.50 the audio in-and outputs of the Audio patches are used inside the CCP-1116 as follows:

Audiopatch INPUT	CCP-1116 connector
Panel MIC	Standard panel gooseneck microphone (only when the CCP-1116 is used as a pure intercom panel)
Headset A	**Headset A Intercom** (XLR 5pol. front side) (only when the CCP-1116 is used as a pure intercom panel)
External MIC	**LINE IN** Input (XLR 3pol. rear side) only available in Speaker-Mode
Headset B	**Headset B Intercom** (XLR 5pol. front side) (only when the CCP-1116 is used as a pure intercom panel)
AUDIO IN A	**MIC A** (XLR 3pol. front side) The key "***MIC MUTE A***" take effect always on this input signal. Exclusive this signal is routed hard wired to the XLR ***"AIR A OUT"*** and ***"AIR A+B OUT"*** analog outputs and can be affected by the ***"ON AIR A" key.***
AUDIO IN B	**MIC B** (XLR 3pol. front side) The key "***MIC MUTE B***" takes effect always on this input signal. Exclusive this signal is routed hard wired to the XLR ***"AIR B OUT"*** and ***"AIR A+B OUT"*** analog outputs and can be affected by the ***"ON AIR B" key.***
Matrix CH. 1	Audio channel 1 (Commentator A), Intercom coming from the matrix to the CCP-1116
Matrix Ch. 2	Audio channel 2 (Commentator B), Intercom coming from the matrix to the CCP-1116

Audiopatch OUTPUT	CCP-1116 connector
Speaker	Standard panel loudspeaker
Headset A	**Headset A Intercom** (XLR 5pol. front side)
External Out	**Ext. Speaker** (XLR 3pol. rear side)
Headset B	**Headset B Intercom** (XLR 5pol. front side)
AUDIO OUT A	**PHONES A** (Stereo-jack, front side)
AUDIO OUT B	**PHONES B** (Stereo-jack front side)
Matrix CH. 1	Audio channel 1 (Commentator A), Intercom going from the CCP-1116 to the matrix
Matrix Ch. 2	Audio channel 2 (Commentator B), Intercom going from the CCP-1116 to the matrix

Up to Director Version 6.50:

For the basic commentator functionality you have to adjust the **Audiopatch** for *Speaker* AND *Headset mode minimum* as follows:



Up from Director 6.60 the labels of the audio IOs are showing the correct names of a CCP and the basic crosspoints within the Audiopatch are already set as default.

Hint: It is recommended to also add an additional Audiopatch with standard panel settings (Gooseneck Microphone + Speaker) to the Panel.

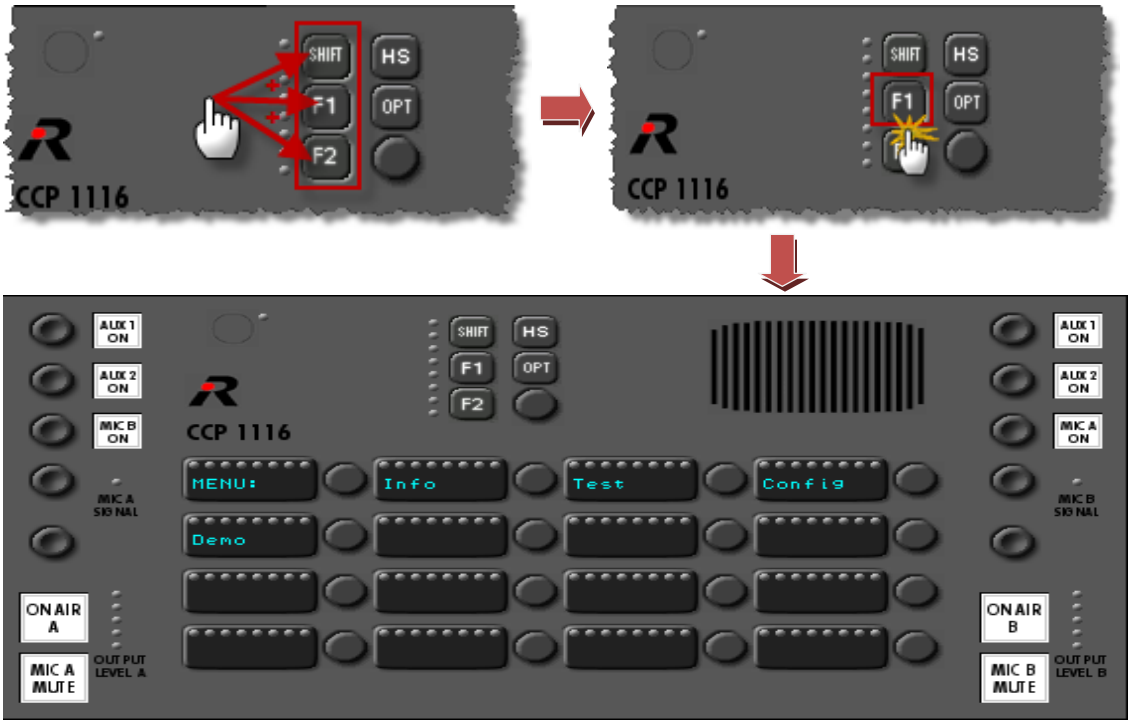
This preset can be activated by a "*Select Audiopatch*" function (for example on the Shift page of the Commentary Panel) to activate a standard Intercom audio routing during rehearsals or when the commentary headset is not yet available. For details please refer the Director User Manual.

6 PANEL TEST / CONFIG MODE

The CCP-1116 panel also has an internal Setup-Menu available, to edit basic settings of the panel or for testing.

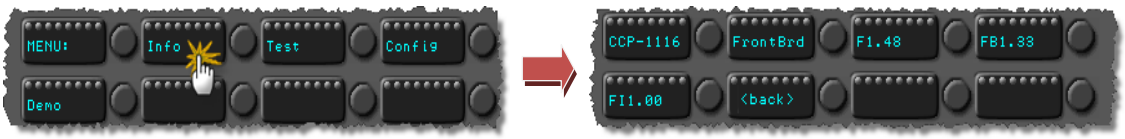
Therefore you have to press ***"Shift"+"F1"+"F2"*** simultaneous to reboot the panel.

Immediately press the ***"F1"*** - button and keep it pressed until the panel has started the Service menu.



6.1 Info

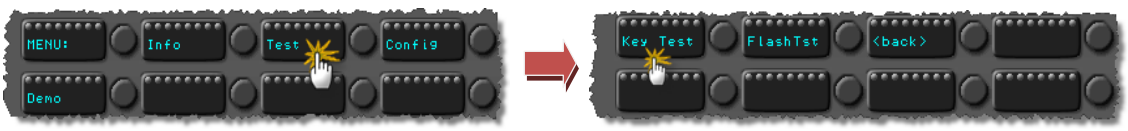
Press the ***"Info"***- button, to show the current installed firmware versions for the front board.



Press any button to go back to the main menu.

6.2 Key Test

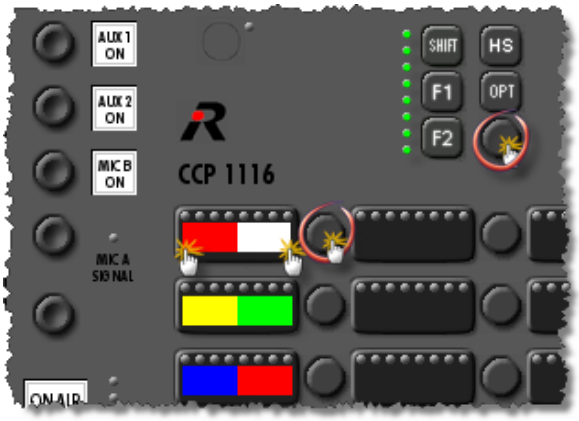
Press ***"Test"*** to get into the test mode. Press ***"Key Test"*** to start the Key Test mode. Please do not use the "***FlashTst***", it is just for internal service. It will delete all Icons from the flash memory.



In the "***Key Test***" mode you can test all key-contacts, rotary encoders, encoder switches and LEDs.

Every time you press a button or turn an encoder, the half side color on the responsible OLED-display will change.

By turning and pressing the Master volume encoder, the 8 Volume LEDs will change the color.



To stop the "*Key Test*" mode, you have to reset the panel by pressing ***"Shift"+"F1"+"F2".***

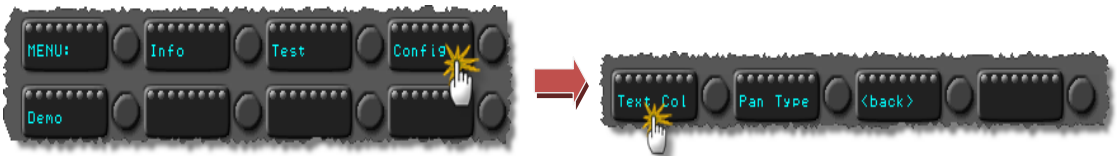
6.3 Config

In the "***Config***" menu, you can adjust the default display color and if the panel should be detected by the Director as a "**DCP-1116**" or "**CCP-1116**".

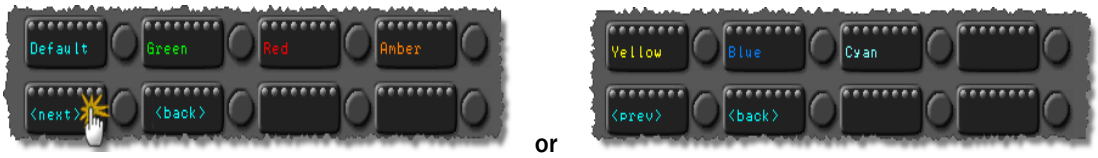
6.3.1 Config: Text Color

In this menu you can set the default text color. This default color is shown, as long the panel is in the "*Wait for*" mode when it is not connected to the matrix.

Press "***Config***" in the main menu



Select the color by pressing the desired color button.



or

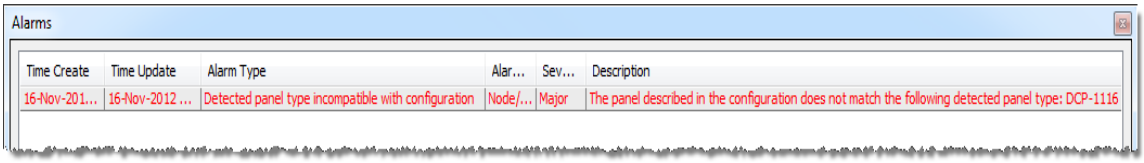
With "***<back>"*** you can go back to the config menu. After resetting the panel, it will show the selected color in the "*Wait for*" mode.

As soon the panel is connected to an Artist system, the Artist configuration assigns the colors to the buttons.

6.3.2 Pan Type

For some reasons it is necessary, to change the panel type information that is sent to the Director. For example if you want to use the CCP panel with an Artist version older 6.40 where the CCP is not directly supported. Therefore you have to adjust the mode to "DCP-1116".

Also if you get an Alarm message within the Director, that a wrong panel type is connected (DCP instead of a CCP) you have to change the mode to CCP.



Press the button "***Pan Type***"

Then press the button with the panel type you want to use.

After resetting the panel it will log on in the Artist as the assigned type.

6.4 Demo Mode

By pressing ***"Demo"*** you can start a demo mode, where all buttons are labeled with different caracter sets.

To stop the "*Key Test*" mode, you have to reset the panel by pressing ***"Shift"+"F1"+"F2".***

7 SPECIFICATIONS

POWER

Internal Power Supply	90 – 253V AC (47-63Hz) max 35VA
Power supply redundancy via external power supply	10 – 16V DC via XLR4

MICROPHONE INPUT (MIC A IN, MIC B IN)

Coupling	Transformer
Phantom Power	48V
Gain Range	10 – 70dB
Gain Switch	-20dB
Maximum Input Level	+6dBu
High-Pass Filter	100Hz
Limiter	@ +6dBu
Input Noise Voltage	-126dBu @200Ω Source
CMRR	>60dB @ 1kHz

AUDIO LINE INPUT (AUX 1 IN, AUX 2 IN)

Coupling	Transformer
Impedance	≥10kΩ
Maximum Input Level	+18dBu
Nominal Input Level	+6dBu
Input Noise Voltage	-73dBu (20Hz-22kHz)
THD+N	<0,1% (+18dBu, 1kHz)
CMRR	>60dB @ 1kHz

AUDIO LINE INPUT (LINE IN)

Coupling	Transformer
Impedance	≥10kΩ
Input Level	10 – +18dBu
Nominal Input Level	-+6dBu
Input Noise Voltage	-73dBu (20Hz-22kHz)
THD+N	<0,2% (<0,05% @ 1kHz)
SNR	>91dB

AUDIO LINE OUTPUT (DIRECT OUT A, DIRECT OUT B, AIR A OUT, AIR B OUT, AIR A+B OUT)

Coupling	Transformer
Impedance	≤50Ω
Maximum Output Level	+18dBu
Nominal Ouput Level	-+6dBu
Output Noise Voltage	-100dBu (20Hz-22kHz)
THD+N	<0,02% (+6dBu @ 1kHz) <0,2% (+6dBu @ 40Hz)

HEADPHONE (PHONE A, PHONE B)

Load	>25Ω
Maximum Output Level	+25dBu
Output Noise Voltage	-75dBu
THD+N	<0,05% (+18dBu @ 1kHz)

8 SERVICE

We offer comprehensive customer service options for this product, if you have further questions or suggestions. Service includes:

- Telephone service
- E-mail service
- Skype service
- Fax service
- Configuration support
- Trainings
- Repairs

Your first contact should always be your local distributor / dealer.
In addition, Riedel Customerservice in Wuppertal, Germany is always available to help you.

Telephone: +49 (0) 202 292 9400
(Monday - Friday, 8:00 – 17:00 Central European Time)

Fax: +49 (0) 202 292 9419

Skype: riedel.communications.service

Or use the contact form on our website:
www.riedel.net

For repairs, please contact your local distributor. Your distributor will help you with the repair process and with securing replacement parts.

The address for sending repairs directly to Riedel Communications GmbH & Co. KG is:

Riedel Communications GmbH & Co. KG
- Repairs -
Uellendahler Str. 353
D-42109 Wuppertal
Germany

9 NOTES

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