

北雪梨靈糧堂 - 音控訓練課程 二

Bread of Life Christian Church in Northern Sydney - Professional Audio Training Class 2

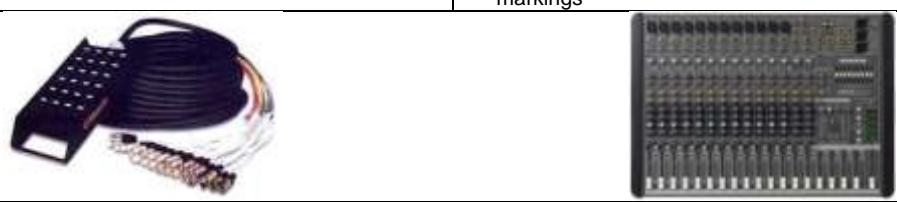
裝設音響器材

Audio Equipments Setup

課程目標	Aim of this Class
<ol style="list-style-type: none"> 1. 認識教會現有音響器材裝設程序 2. 成為初級影音組同工的基礎 	<ol style="list-style-type: none"> 1. Knowing the procedure to set up the audio equipments in our church 2. As a foundation to be a junior crew of the AV Team

課程大綱	Course Outline
<ol style="list-style-type: none"> 1. 器材裝設前準備 2. 正確連接器材 	<ol style="list-style-type: none"> 1. Getting ready for the setup 2. Getting the right connection

器材裝設前準備		Getting ready for the setup	
個人準備 - 三心兩意	小心 虛心 耐心 注意 合意	Prepare yourselves	Gentle Humble Patient Attention As One
警告： 器材非常重！不要一個人獨力承擔！ 裝設或連接任何器材前，請確保電源關閉！		Warning : Equipments are very heavy!! DO NOT carry it alone!! Please ensure all powers are turned off before making any connection	







連接混音器	Connecting the Mixer
1) 音控在連接前請先檢查一下各項必須調到 ∞ :	1) PA Engineer please check the followings and must turn to ∞ before making the connection:
i) MAIN MIX ii) SUB Faders iii) MASTER SEND AUX 1 & AUX 2, EFX SENDS & EFX RETURNS iv) Trim, AUX 1, AUX 2, EFX 1, EFX 2 & Fader on each Channel	
2) 連接電源線，但不要開電源	2) Connect the power cord but DO NOT turn on the power
	
3) 連接大蛇到混音器 - 對號入座	3) Connect Multicore Cable to Mixer – According to the markings
	
注意以下:	Please pay attention to the below:
<ol style="list-style-type: none"> 1) 插線 / 拔線時，手請拿著插頭 2) 不要強行拉拔任何線材 3) 所有線材絕對不可以打結 	<ol style="list-style-type: none"> 1) Hold the plugs when insert / pull out 2) DO NOT pull any cables by force 3) No knots allow on any cables

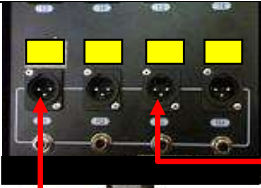

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連接混音器	Connecting the Mixer
 <p>RETURN 1</p>	 <p>MAIN OUT L</p>
 <p>RETURN 3 RETURN 4</p>	 <p>AUX SEND 1 AUX SEND 2</p>
 <p>1 XX WIRELESS 1 WIRELESS 2 HEADSET PA</p>	 <p>MIC 1 MIC XX MIC 3 MIC 4 MIC 5 MIC 7</p>

連接大蛇到監聽喇叭用 Yamaha 擴大器	Connecting the Multicore Cable to the Yamaha Amplifier for Floor Monitor
請先確定電源關閉，然後接線	Please ensure the power is OFF, then connect the cables
 <p>BLCNS STAGE BOX BLCNS 大蛇插頭盒 R1 R3</p>	 <p>2m XLR 線 Cable</p> <p>YAMAHA 擴大器 AMPLIFIER INPUT A INPUT B</p>

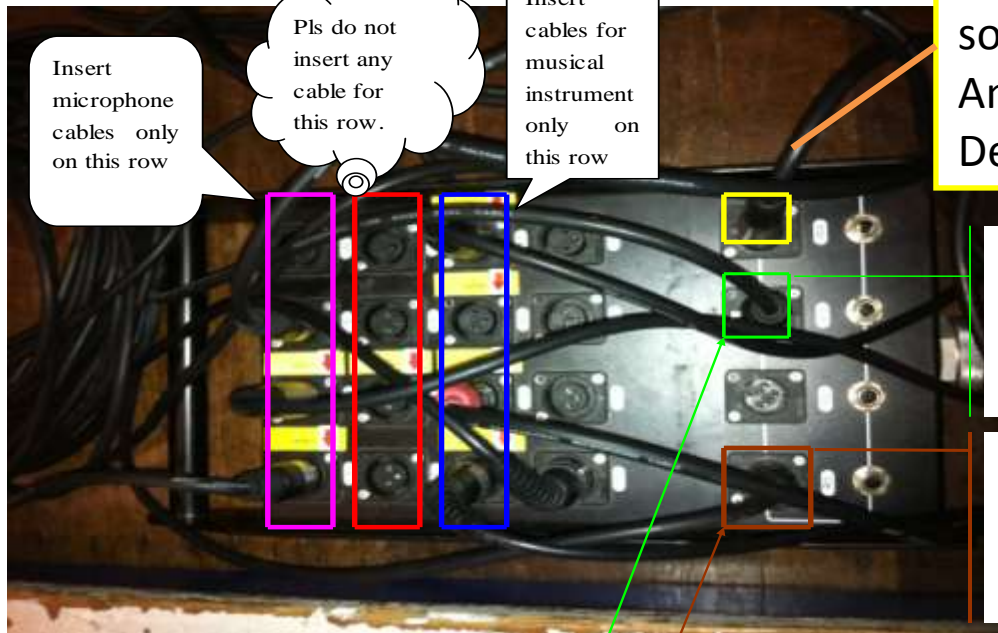
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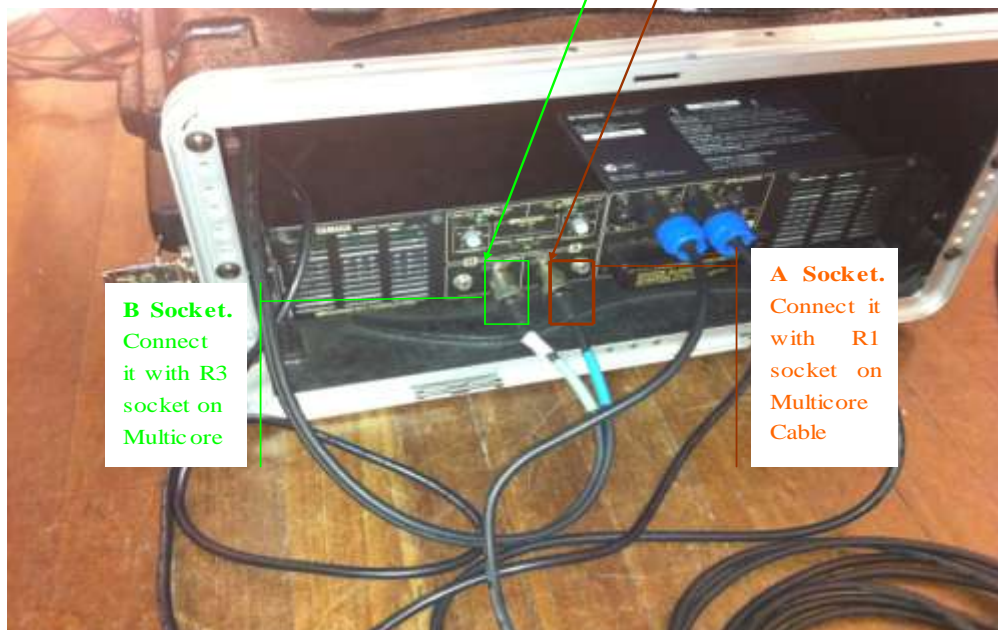
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Multicore Cable



Amplifier



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Bread of Life Christian Church in Northern Sydney - Professional Audio Training Class 2

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Audio Equipments Setup

Defence Amplifier

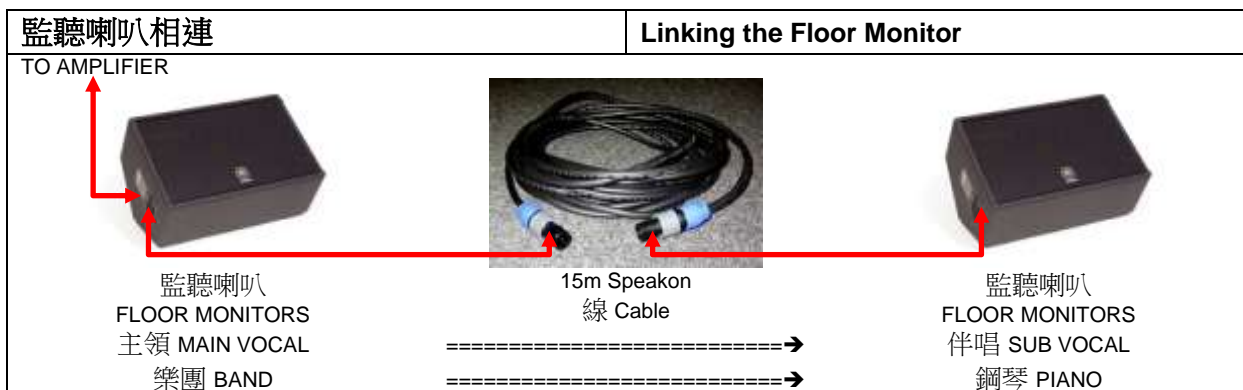


“Channel 1 ” Socket.

Connect it with R4 socket on Multicore Cable. Refer to Muticore Cable

Table 1.

線材	Cables	圖片 Picture
3-芯 XLR (接地 / + / -) - 平衡式連接線 - 最常用作連接麥克風及器材	3-Pins XLR (Ground / Live / Return) - Balanced audio connector - The most commonly used for microphones and connections betw een audio equipments	
		Pin Function
母頭 FEMALE = 輸入 INPUT		1 Chassis ground (cable shield) X 2 Normal polarity (hot) + L 3 Inverted polarity (cold) - R
公頭 MALE = 輸出 OUTPUT		



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連接 Yamaha 擴大器到監聽喇叭	Connecting the Yamaha Amplifier to Floor Monitor
<p>YAMAHA 擴大器 AMPLIFIER</p> <p>SPEAKER A →</p> <p>SPEAKER B →</p> <p>15m Speakon 線 Cable</p> <p>監聽喇叭 FLOOR MONITORS</p> <p>人聲 VOCAL PAIR</p> <p>樂團 BAND PAIR</p>	

連接大蛇到 YAMAHA 擴大器後	After connecting the multicore cable to the YAMAHA amplifier
1) 請檢查擴大器音量並調到已標好的量度 2) 請保持電源關閉	1) Please check that the amplifier is set to the levels as marked 2) Keep the power OFF












連接各樣樂器和麥克風到大蛇插頭盒	Connecting the musical instruments and microphones to the multicores cable stage box	
注意以下: 1) 連接前請確保所有麥克風、樂器和無線接收器電源必須關閉 2) 插線 / 拔線時, 手請拿著插頭 3) 不要強行拉拔任何線材 4) 所有線材絕對不可以打結 5) 自己負責, 對號入座 6) 插線 / 拔線前必須先跟音控打個招呼 7) 特別注意電源線絕對不可以碰到或靠近音響線, 否則會產生電流干擾(哼聲), 嚴重會導致器材燒毀	Please pay attention to the below: 1) Please ensure all microphones, musical instruments and wireless receivers are power off before connection 2) Hold the plugs when insert / pull out 3) DO NOT pull any cables by force 4) No knots allow on any cables 5) DIY, insert the plug into the position on the stage box as marked 6) Communicate with PA before you insert or withdraw a cable 7) DO NOT put the power cords close to OR in contact with the audio cables, otherwise it will create interference (a humming noise), or even more serious will it blow the audio equipments	
麥克風 / 樂器 MICS / INSTRUMENTS	線材 CABLES	連接到 CONNECT TO
主領 / 頭戴 無線 MAIN VOCAL WIRELESS HEADSET WIRELESS	從接收器 FROM RECEIVER 2m XLR	混音器 MIXER

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伴唱 / 鋼琴 SUB VOCAL / PIANO 	===== 10m XLR =====> 	大蛇插頭盒 STAGE BOX 
吉他 GUITAR  低音吉他 BASS  鍵琴 KEYBOARD  電子鼓 ELECTRIC DRUM 	=== 1/4" TS ===> DI ===> XLR ===>   	大蛇插頭盒 STAGE BOX 

無線麥克風注意事項	Remarks for Wireless Microphones
1) 請確保所有無線麥克風必須在聚會前更換新電池 2) 頭戴式無線麥克風需配合發射器使用  3) 為免干擾無線器材，請關閉手提電話 4) 所有無線器材都是非常脆弱，千萬不可跌撞	1) Please ensure to change to new batteries for all wireless microphones 2) A transmitter is required for Headset Wireless Microphones 3) Please switch OFF mobile phones in order not to interfere the wireless equipments 4) All wireless equipments are very delicate, must never drop

開電源注意事項	Remarks for Wireless Microphones
1) 請確保所有器材已完全連接妥當 2) 開動所有樂器電源、無線接收器及麥克風開關 3) 開動混音器電源，音量必須保持 ∞ 4) 開動所有擴大器電源	1) Please ensure all equipments connections are complete 2) Switch on all musical instruments, wireless receivers & microphones 3) Switch on the power of the mixer, keep the volume at ∞ 4) Switch on the power of all amplifiers

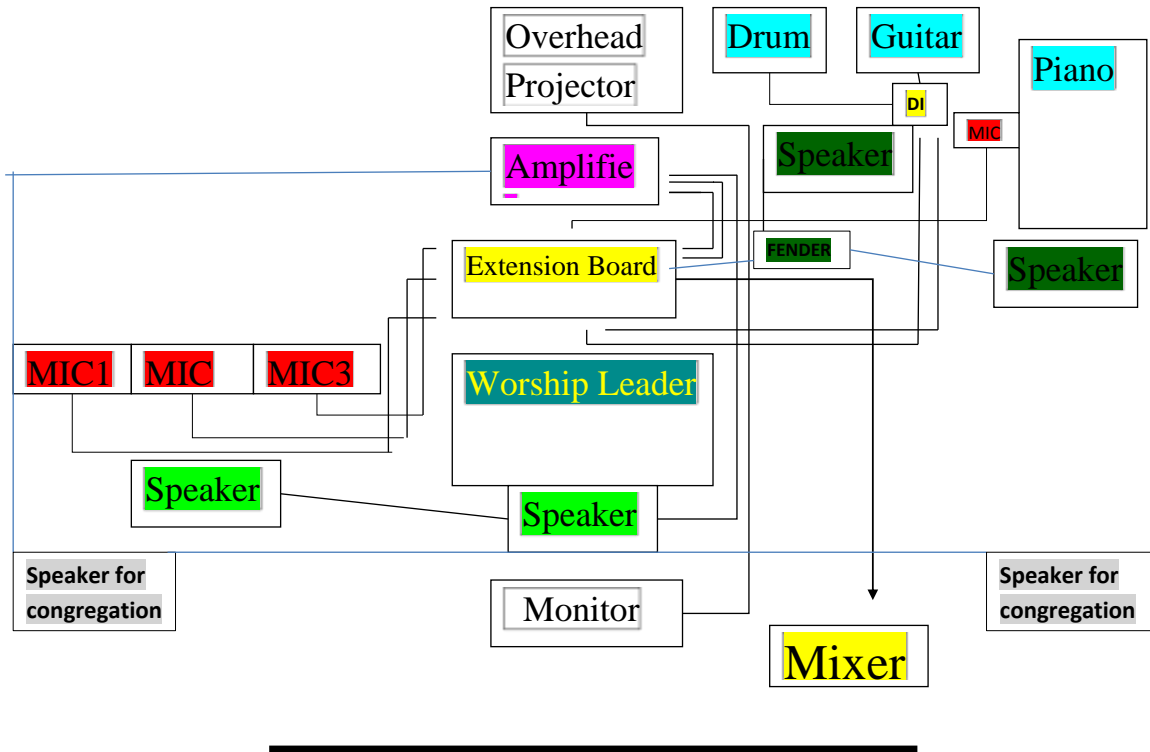
聚會前最後工序注意事項	The Final Touch before the show
為確保安全及達致更完美的演出，我們建議採用“乾淨舞台”，就是能看到最少線材為標準。我們可以用膠貼或索帶把線材合多為一。從混音器以一條直線延伸及分到各麥克風和樂器。(見下圖)	For safety and better performance, we always recommend a “Clean Stage” which means the minimal amount of visible cables. We can achieve this by bundling all cables together to become one. The “ONE” cable should run in a straight line from the mixer out and the split out to the microphones and musical instruments. (See below sketch for reference)

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最後但不可缺少的一刻 - 收器材

收器材時請注意以下各項:

- 1) 小心看管所有器材，以免被偷
- 2) 把混音器上所有音量關閉到∞，但不要關電源
- 3) 關閉所有擴大器電源
- 4) 關閉其他各樣器材電源
- 5) 拔線然後以一正一反的方式收現，把線放回所屬小箱子後，再放回行李箱或大塑膠箱
- 6) 其他器材收好後放回儲藏室。請為別人著想常常保持儲藏室乾淨整齊。

The Last but not Least – Pack Up

Please pay attention to the below when packing up:

- 1) Always keep an eye on all the equipments!! Beware of thefts!
- 2) Turn all the volume on the mixer ∞, but DO NOT switch off the mixer
- 3) Turn off the power of all the amplifiers
- 4) Turn off the power of all other equipments
- 5) Unplug all cables and roll up in a + / - method, pack them back into the allocated containers and then back into the suit cases or the large plastic containers
- 6) Pack up all the equipments and take them back to allocated place in the store room. Please be considerate and always keep the store room clean and tidy.