BINARY

Binary IR Cab 用户手册

HOTONE
DESIGN INSPIRATION

欢迎使用Binary IR Cab

感谢您购买Hotone Binary系列效果器！它会使你的效果器板更加强劲、充满力量。

Binary系列将多个专业级效果集合在小巧而紧凑的机身中，双DSP平台和CDCM建模系统为您提供了真实的演奏体验，多样化的输入/输出接口和双踩钉设计让操作变得更加简单和便捷，清晰明亮的OLED屏幕使所需信息一览无余。

Binary IR Cab是一款基于脉冲响应（Impulse Response）的箱体模拟效果器，音色逼真，内置100个传奇复古/现代箱体模拟音色（吉他和贝斯均可使用），同时还内置基于CDCM技术的经典录音室麦克风模拟和后级（Power Amp）模拟。

产品特性

- 来自XTOMP的新一代技术结晶
- 小巧、操作便捷的双踩钉箱体模拟效果器
- 先进的CDCM建模系统提供给您真实的演奏体验
- 双DSP平台为高品质音色提供了最有力的保障
- 24-bit数字音频处理，信噪比最高可达110dB
- 内置100个基于IR技术的经典吉他/贝斯箱体模拟效果
- 内置8个基于CDCM技术的后级模拟，支持临场度（Presence）调节
- 内置10个基于CDCM技术的经典录音室麦克风模拟
- 精确的三维麦克风位置模拟以及房间声学环境模拟增加音色的可调性和真实感
- 支持加载第三方IR文件
- USB接口用于连接配套Binary免费电脑软件进行音色编辑、固件升级等
- 耳机接口和辅助输入（Aux In）可用于练习、即兴演奏等
- 支持100个用户预设（10个预设组，每组10个预设）
- 清晰的OLED显示屏，强光下依然清晰可见
- 5个带有LED指示灯的透明旋钮
- 9V直流电源供电，极性内负外正

产品操作面板简介

1-2.▽/△：用于切换预设、控制效果器开/关等。5个透明旋钮下的LED指示灯用于指示效果器的开/关状态。

3. +/- 按键：用于选择效果、调整参数等操作。

4. GLOBAL：用于调节后级模拟和房间混响模拟参数。

5. SAVE/EXIT按键：用于保存或取消参数修改。

6. OLED显示屏：用于显示当前预设信息、参数变化和其他操作信息。

7. VOL：控制效果输出音量。

8-10. MIC POSITION X/Y/Z：调节麦克风模拟位置，麦克风模拟关闭时无效。

11. MIC TYPE：切换不同的麦克风模拟效果，拧到最小以关闭。

12. INPUT：1/4英寸（6.35mm）单声道接口，用于接入乐器或其他效果器。

13. AUX：1/4英寸（6.35mm）立体声接口，用于接入音频播放器。

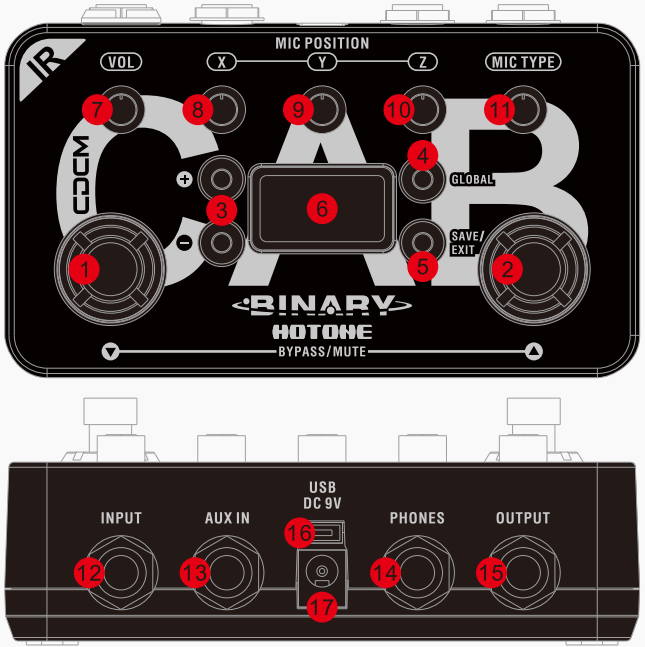
注意：当使用OUTPUT插孔时，您只能听到AUX接口左声道的声音。

14. PHONES：1/4英寸（6.35mm）立体声接口，用于连接耳机。

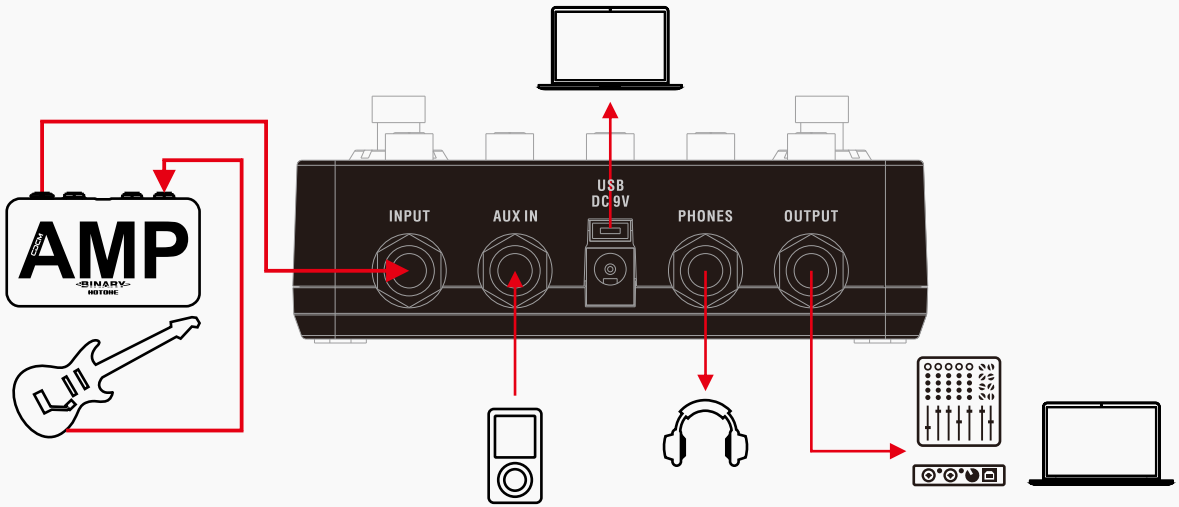
15. OUTPUT：1/4英寸（6.35mm）单声道接口，用于连接音箱或其他效果器。

16. USB接口：Mini USB接口，用于编辑参数、固件升级和恢复出厂设置等。

17. 电源接口：9V直流电源，极性内负外正。



连接方式



注意：在连接/关闭电源之前请优先将音箱的音量旋钮拧至最小或声卡/调音台输入静音，以免对设备造成损害。

显示

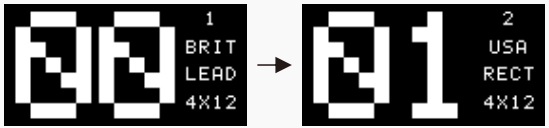
接通电源后设备开启，显示屏进入主显示界面，显示信息如下：



1 - 当前预设（Patch）号信息
2 - 当前使用的音箱模拟（IR文件）名称

选择预设（Patch）

单踩▽/△脚踏任一开关即可切换预设。反复踩或踩住△脚踏开关，则预设将会按照00、 01、02、…、99然后回到00的顺序正向循环切换；踩▽脚踏开关即可反向循环切换预设。



旁通（Bypass）/静音（Mute）

同时踩下▽/△踩钉。



设置为旁通状态：屏幕显示“BYPASS”时松开踩钉即可。
设置为静音状态：依然踩住脚钉直至显示屏提示“MUTE”为止。



再次同时踩下▽/△踩钉返回至正常工作状态。
在旁通/静音状态下所有LED灯会熄灭。

注意：AUX In在静音状态下将不会被静音。

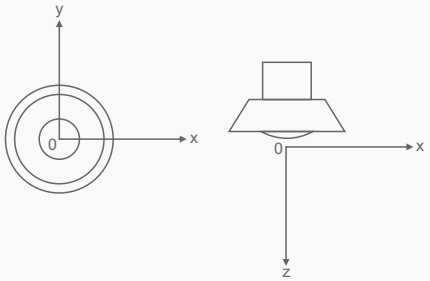
编辑

1. 调整参数

使用旋钮可对效果参数进行调节，调节参数时显示信息如下：



1 - 当前调节的参数信息（图中表示正在调节效果音量）
2 - 之前保存在该预设中的参数值（PREV. = Previous，意即“之前的”）



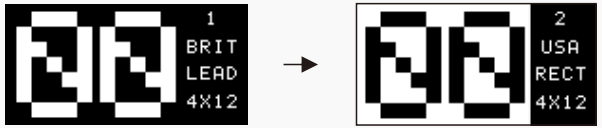
MIC POSITION X/Y分别用于控制麦克风的水平/垂直位置，将X、Y设置为0即可将麦克风设定为喇叭的中轴线上（即On Axis），Z为控制麦克风与喇叭之间的距离（Mic Distance）。

您可以通过MIC TYPE旋钮选择您喜欢的麦克风类型，将这个旋钮调至最小即可关闭麦克风模拟功能。

编辑

2. 选择不同的箱体模拟效果

使用+/-按键切换一个不同的箱体模拟，长按+/-按键以快速切换：



编辑成功后，预设号将以反色显示以表示当前预设已被编辑，如图所示。

编辑后级（Power Amp）模拟和房间声学环境模拟（Room Settings）

在主显示界面下，按下GLOBAL键即可设置当前预设中的后级（Power Amp）和房间声学环境模拟（Room Settings）设置；反复按GLOBAL按键即可在后级类型（Power Amp Type）、后级临场度（Power Amp Presence）、房间混响量（Room Amount）三个选项之间循环切换，如下图所示：



使用+/-键设置后级类型（或关闭后级模拟）、后级临场度调节、房间混响量（或关闭房间声学环境模拟）。按下SAVE/EXIT键（或无操作3秒钟以后）即可确认设置和返回主显示界面。

注意：如果您在在编辑参数之后没有保存，此时切换至其它预设或关机，之前所做的编辑将会全部丢失。如有需要，请记得及时保存参数。

保存设置

长按SAVE/EXIT按键进行保存，屏幕显示如下：



使用+/-按键选择保存位置，再次按下SAVE/EDIT按键确认保存。
如需放弃保存并回到编辑状态下，踩下任意踩钉即可。

箱体模拟型号列表*

No.	名称	描述	喇叭规格
		Quickstart	
1	BRIT LEAD 4X12	This IR is based on a Marshall 1960AV* 4x12 cabinet with four 12-inch Celestion Vintage 30* speakers.	4x12
2	USA RECT 4x12	This IR is based on a Mesa/Boogie Rectifier* cabinet with four 12-inch Celestion Vintage 30* speakers.	4x12
3	VOXY TB 2x12	This IR is based on a Vox AC30 Top Boost* cabinet with two 12-inch Vox*-labeled silver speakers.	2x12
4	DARK DUO 2x12	This IR is based on a Fender ' 65 Twin Reverb* cabinet with two Jensen C12K* speakers.	2x12
5	BRIT TRAD 4x12	This IR is based on a vintage '68 Marshall* Basketweave 4x12 cabinet with four 12-inch Celestion Greenback* speakers.	4x12
6	DARK LUX 1x12	This IR is based on a Fender VibroLux* 1x12 cabinet with one 12-inch custom speaker.	1x12
7	TWD LUX 1x12	This IR is based on a Fender Tweed Deluxe* cabinet with one 12-inch Jensen P12R* speaker.	1x12
8	JAZZ TWIN 2x12	This IR is based on the legendary "Jazz Clean" cabinet with two 12-inch "Silver Cone" speakers.	2x12
9	CHEF MIX 2x12	This IR is based on a Matchless* 2x12 cabinet with one 12-inch Celestion G12H* speaker & and one 12-inch Celestion G12M* speaker.	2x12
10	BASE MAN 4x10	This IR is based on a Fender '59 Bassman* cabinet with four 10-inch Jensen P10Q* speakers.	4x10
		Modern Selections	
11	BRIT T75 4x12	This IR is based on a Marshall 1960B* cabinet with four 12-inch Celestion T75* speakers.	4x12
12	BRIT MOD 4x12	This IR is based on a modified 1970's Marshall 1960TV* 4x12 cabinet.	4x12
13	BRIT GRN 4x12	This IR is based on a Marshall 1960A* cabinet with four 12-inch Celestion Greenback* speakers.	4x12
14	BRIT JUBY 2x12	This IR is based on a Marshall 2550* 2x12 cabinet with two 12-inch Celestion Greenback* speakers.	2x12
15	BRIT JUBY 4x12	This IR is based on a Marshall 2551* 4x12 cabinet with four 12-inch Celestion Greenback* speakers.	4x12
16	BOG V30 4x12	This IR is based on a Bogner* 4x12 cabinet with four 12-inch Celestion Vintage 30* speakers.	4x12
17	GER V30 4x12	This IR is based on a ENGL* 4x12 cabinet with four 12-inch Celestion Vintage 30* speakers.	4x12
18	GER TRIP 4x12	This IR is based on a Hughes & Kettner* Triamp* cabinet with four 12-inch Celestion Greenback* speakers.	4x12
19	UBER 75 4x12	This IR is based on a Bogner* Uberkab* cabinet with four 12-inch Celestion T-75* speakers.	4x12
20	UBER MIX 4x12	This IR is based on a Bogner* Uberkab* cabinet with two 12-inch Celestion T-75* speakers and two 12-inch Celestion Vintage 30* speakers.	4x12
21	DIZZ V30 4x12	This IR is based on a Diezel* 4x12 cabinet with four 12-inch Celestion Vintage 30* speakers.	4x12
22	SOLO 100 4x12	This IR is based on a Soldano* 4x12 cabinet with four 12-inch Eminence V1216* speakers.	4x12
23	AREA 51 2x12	This IR is based on a Peavey* 5150* cabinet with two 12-inch Sheffield 1200* speakers.	4x12
24	AREA 53 4x12	This IR is based on a EVH 5150 III* cabinet with four 12-inch speakers.	4x12
25	AREA 65 4x12	This IR is based on a Peavey 6505* cabinet with four 12-inch Sheffield 1200 speakers.	4x12
26	USA TRAD 4x12	This IR is based on a 1980s Mesa/Boogie* cabinet with four 12-inch Celestion Vintage 30* speakers.	4x12
27	USA LEAD 4x12	This IR is based on a Mesa/Boogie* 4x12 cabinet with four 12-inch Celestion Classic 80* speakers.	4x12
28	USA KING 4x12	This IR is based on a Mesa/Boogie Road King* cabinet with four 12-inch Mesa/Boogie "Black Shadow" * speakers.	4x12
29	OGRE V30 4x12	This IR is based on an Orange PPC412* cabinet with four 12-inch Celestion Vintage 30* speakers.	4x12
30	CAVE LEAD 2x12	This IR is based on a Carvin Legacy* 2x12 cabinet with two 12-inch Celestion Vintage 30* speakers.	2x12

*表格中所提到的厂商及产品名称仅用于直观说明该产品的效果与音色特性，商标名称归其公司所有。

箱体模拟型号列表*

Vintage Selections			
31	TWD CHAP 1x8	This IR is based on a vintage Fender Champ* 1x8 cabinet.	1x8
32	TWD PC 1x10	This IR is based on a vintage Fender Princeton* 1x10 cabinet.	1x10
33	BASE MAN 2x12	This IR is based on a vintage Fender “Piggyback” Bassman* 2x12 cabinet.	2x12
34	VIB 30 1x12	This IR is based on a vintage Fender Vibrolux* 1x12 cabinet.	1x12
35	SILV TWIN 2x12	This IR is based on a vintage Fender Silverface Twin Reverb* 2x12 cabinet.	2x12
36	DUAL SHOW 2x15	This IR is based on a Fender Dual Showman* 2x15 cabinet with two 15-inch JBL D130* speakers.	2x15
37	SUP VERB 4x10	This IR is based on a vintage Fender Super Reverb* 4x10 cabinet.	4x10
38	USA REC 1x12	This IR is based on a vintage 1980's Mesa/Boogie* 1x12 cabinet.	1x12
39	SUP ZEP 1x6	This IR is based on a vintage Supro* 1x6 cabinet with a 6” x9” offset speaker.	1x6
40	SUP DUO 2x12	This IR is based on a Supro 1624T* 2x12 cabinet.	2x12
41	SUP BOLT 1x15	This IR is based on a Supro Thunderbolt* 1x15 cabinet.	1x15
42	VOXY 15 1x12	This IR is based on a vintage Vox AC15* cabinet with one 12-inch Celestion Alnico Blue* speaker.	1x12
43	VOXY SILV 2x12	This IR is based on a vintage Vox AC30* cabinet with two 12-inch Celestion Alnico Silver* speakers.	2x12
44	VOXY GRN 4x12	This IR is based on a vintage Vox* 4x12 cabinet with four 12-inch Celestion Greenback* speakers.	4x12
45	HIWY VINT 4x12	This IR is based on a vintage Hiwatt SE4123* cabinet with four 12-inch Fane Purpleback* speakers.	4x12
46	THE WAY 4x12	This IR is based on a vintage WEM 4x12* cabinet with four 12-inch Fane* speakers.	4x12
47	BRIT DARK 4x12	This IR is based on a vintage ‘68 Marshall* 4x12 cabinet with four 12-inch Celestion G12H Blackback* speakers.	4x12
48	BRIT AX 4x12	This IR is based on a vintage 1960's Marshall 1960AX* cabinet.	4x12
49	BRIT G12L 4x12	This IR is based on a late-1960’s Marshall* 4x12 cabinet with four 12-inch Celestion G12L* speakers.	4x12
50	DUM M160 4x12	This IR is based on a vintage Dumble* 4x12 cabinet with four 12-inch Eminence* speakers.	4x12
Boutique Selections			
51	CAR ROAR 1x12	This IR is based on a Carr Roamer* 1x12 cabinet.	1x12
52	CHEF TWIN 2x12	This IR is based on a Matchless* 2x12 cabinet.	2x12
53	STAR FALL 2x12	This IR is based on a Mesa/Boogie Lonestar* 2x12 cabinet.	2x12
54	DARK FALL 1x12	This IR is based on a Mesa/Boogie Lonestar* 1x12 cabinet with one 12-inch Mesa/Boogie “Black Shadow” speaker.	1x12
55	SHIV CLN 1x12	This IR is based on a Bogner Shiva* 1x12 cabinet with one 12-inch Celestion Classic Lead 80* speaker.	1x12
56	VOXY MOD 2x12	This IR is based on a Vox V212H* cabinet with two 12-inch Celestion Alnico Blue* speakers.	2x12
57	FREE CAB 2x12	This IR is based on a Fryette Deliverance* 2x12 cabinet with two 12-inch Eminence P50E* speakers.	2x12
58	DARK CTM 2x12	This IR is based on a modified Fender* 2x12 cabinet with two 12-inch Eminence EJ1250* speakers.	2x12
59	TWIN ROCK 2x12	This IR is based on a Two-Rock* 2x12 cabinet.	2x12
60	BAD RAT 1x12	This IR is based on a Black Cat Hot Cat* 1x12 cabinet with one 12-inch Celestion Vintage 30* speaker.	1x12
61	DUM BELL 4x12	This IR is based on a Dumble* 4x12 cabinet with four 12-inch EVM 12L* speakers.	4x12
62	RUM BELL 4x12	This IR is based on a Dumble* 4x12 cabinet with two 12-inch EVM 12L* and two EVM 12S* speakers.	4x12
63	ATOM OPEN 1x12	This IR is based on a Swart Atomic Space* 1x12 open back cabinet.	1x12
64	HIGH END 2x12	This IR is based on a boutique custom 2x12 cabinet featuring very high sound resolutions.	2x12
65	DEEP DIVE 1x12	This IR is based on a Divided by 13 CJ 11* cabinet with one 12-inch Celestion G12M* speaker.	1x12

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Bass Cabs			
66	BIG SV 8x10	This IR is based on an Ampeg SVT-810E* 8x10 bass cabinet.	8x10
67	WORK BEN 1x15	This IR is based on a SWR* 1x15 bass cabinet.	1x15
68	FLIP TOP 1x15	This IR is based on an Ampeg PF-115HE* 1x15 bass cabinet.	1x15
69	BIG SV 4x10	This IR is based on an Ampeg SVT-410HE* 4x10 bass cabinet.	4x10
70	ALU BASS 4x10	This IR is based on a Hartke* 4x10 cabinet with four 10-inch aluminum speakers.	4x10
71	USA BASS 2x10	This IR is based on a Mesa/Boogie* 2x10 bass cabinet.	2x10
72	ADAM BTM 1x15	This IR is based on a David Eden* 1x15 bass cabinet.	1x15
73	ADAM TOP 4x10	This IR is based on a David Eden* 4x10 cabinet.	4x10
74	MK BASS 4x10	This IR is based on a Mark Bass* 4x10 cabinet.	4x10
75	VOXY BASS 2x12	This IR is based on a vintage Vox V125* 2x12 bass cabinet.	2x12
76	ALU BASS 4x12	This IR is based on a Hartke* 4x12 bass cabinet with four 12-inch aluminum speakers.	4x12
77	WORK MAN 4x10	This IR is based on a SWR Workingman's 4x10* bass cabinet.	4x10
78	HF BASS 4x10	This IR is based on a 4x10 bass cabinet with a high frequency tweeter.	4x10
79	SUB BASS 1x15	This IR is based on a low contoured 1x15 bass cabinet.	1x15
80	SUB BASS 4x10	This IR is based on a low contoured 4x10 bass cabinet.	4x10
Addendum			
81	BRIT PRC 4x12	This IR is based on a vintage Marshall* 4x12 cabinet with four 12-inch "Pre-Rola" Celestion G12M Blackback* speakers.	4x12
82	BRIT G12T 1x12	This IR is based on a Marshall* 1x12 cabinet with one 12-inch Celestion G12T-75* speaker.	1x12
83	BRIT 70S 4x12	This IR is based on a vintage 1970s Marshall 1960TV* 4x12 cabinet.	4x12
84	BRIT G12M 1x12	This IR is based on a Marshall 1x12 cabinet with one 12-inch Celestion G12M* speaker.	1x12
85	BRIT K120 4x12	This IR is based on a modified Marshall* cabinet with four 12-inch JBL K120* cabinet.	4x12
86	BLUE WING 1x12	This IR is based on a Bludotone* 1x12 cabinet with one 12-inch Blackhawk WGS Alnico* speaker.	1x12
87	THE POPE 1x15	This IR is based on a 1x15 cabinet with one 15-inch Eminence* speaker.	1x15
88	TWD SPR 2x10	This IR is based on a custom Fender Tweed* 2x10 cabinet with two 10-inch Weber Sig-10* cabinet.	2x10
89	DLX FN12 1x12	This IR is based on a Mojotone* 1x12 cabinet with one 12-inch Fane* speaker.	1x12
90	BOG SHIV 2x12	This IR is based on a Bogner Shiva* 2x12 cabinet with two 12-inch Fane* speakers.	2x12
91	TWD PRO 1x15	This IR is based on a Fender Tweed Pro 1x15 cabinet.	1x15
92	CARA TRIP 1x12	This IR is based on a Carol-Ann Triptik* 1x12 cabinet.	1x12
93	BRIT R121 4x12	This IR is based on a modified Marshall* 4x12 cabinet with mixed speakers.	4x12
94	CEL G12H 4x12	This IR is based on a 4x12 cabinet with four 12-inch Celestion G12H-30* speakers.	4x12
95	JESN 59F 2x10	This IR is based on a vintage Fender* 2x10 cabinet with Jensen* speakers.	2x10
96	BASE MIX 4x10	This IR is based on a Fender Bassman* 4x10 cabinet with mixed speakers.	4x10
97	USA JP30 4x12	This IR is based on a Mesa/Boogie* 4x12 cabinet.	4x12
98	MORG AC20 1x12	This IR is based on a Morgan AC-20 Deluxe* 1x12 cabinet.	1x12
99	CEL BLUE 2x12	This IR is based on a 2x12 cabinet with two 12-inch Celestion Alnico Blue* speakers.	2x12
100	D120 PRO 4x12	This IR is based on a 4x12 cabinet with four 12-inch JBL D120* speakers.	4x12

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后级模拟型号列表

编号	后级模拟型号	描述
1	OFF	N/A
2	EL84S	EL84 Single-Ended (SE)
3	EL84P	EL84 Push-Pull (PP)
4	6L6P	6L6 Push-Pull (PP)
5	EL34P	EL34 Push-Pull (PP)
6	KT88S	KT88 Single-Ended (SE)
7	KT88P	KT88 Push-Pull (PP)
8	EL34S	EL34 Single-Ended (SE)
9	6L6S	6L6 Single-Ended (SE)

麦克风模拟型号列表*

序号	麦克型号	原型	类型
1	OFF	N/A	N/A
2	DY57	Shure SM57	Dynamic
3	DY58	Shure SM58	Dynamic
4	D421	Sennheiser MD421	Dynamic
5	RE16	Electro-Voice RE16	Dynamic
7	D112	AKG D112	Dynamic
6	E609	Sennheiser e609	Dynamic
8	B87A	Shure Beta 87A	Condenser
9	U87	Neumann U87	Condenser
10	R121	Royal R121	Ribbon
11	U67	Neumann U67	Condenser
12	INV	Phase Invert	N/A

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产品特性

预设数量：100（10个预设组 x 10个预设）
效果数量：100个基于IR的箱体模拟，8个基于CDCM的后级模拟
和11个基于CDCM的麦克风模拟效果
数字音频处理：24-bit模数/数模转换精度，48kHz采样率
频率响应：20 Hz-20 kHz
最大卷积时间：20毫秒
信噪比：最高可达110dB
输入阻抗：1M Ohms
输出阻抗：100 Ohms
电源要求：9V直流电源，极性内负外正
电流消耗：最小200mA
尺寸：121mm （长） x 72mm （宽）x 47mm （高）
重量：340g

本用户手册的内容如有更改，恕不另行通知。