



# BEYOND 1/BEYOND 3

## DIGITAL INTEGRATED AMPLIFIER




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# Important Safety Instructions



**CAUTION**

RISK OF ELECTRIC SHOCK  
DO NOT OPEN



ATTENTION: RISQUE DE CHOC ELECTRIQUE - NE PAS OUVRIR

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WARNING: TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK DO NOT EXPOSE THIS EQUIPMENT TO RAIN OR MOISTURE

The above symbols are international electronic product warning signs. The triangle symbol with lightning pattern is used to remind the user that there is "dangerous voltage" in the power amplifier, which may lead to electric shock. The triangle symbol with exclamation mark is used to remind the user to pay attention to and follow important operation and maintenance (repair) instructions in the manual.

Such marks are used to warn the user that there are no user repairable parts in the power amplifier. Do not open the power amplifier without authorization, and do not carry out any maintenance on the power amplifier without authorization. In case of maintenance and repair, please consult the relevant qualified professionals. If you open the equipment chassis without authorization, the warranty terms will be invalid. The power amplifier is strictly prohibited to be exposed to rain and moisture. In case of liquid infiltration, shut down the equipment immediately and return it back to the agent for maintenance; in case of thunderstorm, disconnect the power supply to prevent the equipment from being damaged.

**Safety Instructions**

Please pay attention to the safety instructions here for users who use equipment with the power cord!

**Warning:** This equipment must be connected to a power socket with grounding protection!

The cables in the power cord are distinguished by the following colors:

**Yellow green - ground wire**  
**Blue - neutral wire**  
**Brown - live wire**

If the cable color is inconsistent with that of the terminal in the power socket to be connected, please follow the following steps:

- Connect the yellow-green cable to the terminal marked with E, or grounding symbol, or the green or yellow-green terminal in the power socket;
- Connect the blue cable to the terminal marked with N or the black terminal in the power socket;
- Connect the brown cable to the terminal marked with L or the red terminal in the power socket.

Depending on the power supply at the installation site, the equipment may require different power cords or connectors. If you need to replace the connector, please consult the relevant qualified professionals and refer to the relevant information in the table below.

The yellow-green cable must be connected to the equipment chassis.

Conductor		Cable color	
		General standards	Other standards
L	Live wire	Brown	Black
N	Neutral wire	Blue	White
E	Ground wire	Green / yellow	Green

**Warning:** If the grounding protection is poor, the equipment or system connected may fail, resulting in a full-load line voltage between the equipment chassis and the ground. Once a person touches the chassis and the ground at the same time, it may cause serious injury or even death.

**Safety Instructions**

Keep these Safety Instructions.

Pay attention to all warning information. Comply with all operation specifications.

Do not spray liquid around the equipment. Do not place liquid containers (such as vases) above the equipment.

Use only dry cloth to clean the equipment.

Do not block the heat sink. Install the equipment according to the manufacturer's instructions.

Do not install the equipment near a heat source, such as radiator, heat regulator, furnace or other heating equipment (including power amplifier).

Accessories and fittings specified by the manufacturer must be used.

Unplug the power socket in case of thunderstorm or long-term equipment shutdown.

Please follow the safety specifications for polarized plugs or grounding plugs. The polarized plug consists of two metal prongs with different widths. The grounding plug is composed of two-pole male tab and grounding male tab with safety protection function. If the plug provided is incompatible with the power socket, please replace the power socket. Please consult an electrical engineer for replacement of power sockets.

Take care to protect the power cord from trampling or crushing. Pay special attention to protecting cables at plug end, socket end and equipment end.

Movable cabinets, bases, tripods, supports and workbenches designated by the manufacturer or sold with the equipment must be used. When using the movable cabinet, please be careful to prevent the cabinet and equipment from overturning. In case of maintenance and repair, please consult the relevant qualified maintenance personnel. In case of any of the following situations, the equipment must be overhauled: cable or plug damage, liquid splashing, foreign materials falling into chassis, rain and moisture, abnormal operation or equipment falling, etc.



**Power switch:** For equipment with a power switch, turn off the power switch but do not completely disconnect the equipment from the power supply.

**Power off setting:** The power socket shall be available at any time. For the equipment installed in cabinets or unable to be connected by plugs, the all-pole power switch with contact spacing not less than 3mm shall be provided in equipment cabinets or buildings.

For equipment with an external fuse interface, replace only with fuses of the same type and specification.

**Multiple input voltages:** Depending on the power supply at the installation site, the equipment may require different power cords or connectors to ensure that the power supply meets the requirements of the power type indicated on the back panel of the equipment.

For information or services related to electricity, please consult relevant qualified personnel to avoid fire or electric shock.

## Product Overview

Thank you for purchasing JBL BEYOND series digital integrated amplifiers!

The JBL BEYOND series digital integrated amplifier is optimized for use in karaoke, small commercial and prosumer applications. Using built-in digital signal processing to deliver JBL's signature sound. Equipped with three 6.35mm microphone inputs, 2 HDMI inputs, 2 stereo RCA inputs, one optical input as well as 1 HDMI (ARC) output, a line level output for a powered subwoofer, this amplifier is designed for ultimate connectivity with a number of devices. The JBL Beyond series delivers warm vocals and crystal clear audio that everyone can enjoy. Bluetooth connectivity and a front mounted USB port allows for maximum play back options so you can listen to or sing along with your favorite songs. The JBL Beyond series amplifiers feature 2 channels of output with 180W or 360W per channel output, it is the perfect amplifier to power your next set of JBL Entertainment speakers.

## Features

- Integrated Professional Grade DSP, high-efficiency Class-D power amplification
- Three levels of feedback suppression for microphone input
- Rich JBL signature karaoke sound experience with Key Change functionality
- Eight preset modes: KTV, PRO, Speech and 5 user definable settings
- Independent control of reverb and echo effects
- Music input via optical connection or Two pairs of RCA connectors
- Play music easily from your phone via Bluetooth or Flash Drive via USB playback
- Two HDMI inputs and one HDMI output featuring (ARC functionality)
- 15-band parametric equalizer for microphone input
- 15-band parametric equalizer for music input
- Knob-type speaker output terminals for Left and Right speakers
- Subwoofer RCA output for fast, simple connection to active subwoofers
- Stereo AUX RCA output
- Built-in compressor
- One 3.5 mm RS232 connector for connection to centralized control of KTV room or smart home systems
- Professional grade computer-based control or EQ and output via USB can be used to fine-tune the system

## Packing List

Upon arrival of the equipment, please unpack and inspect immediately. In the event of shipping related damage, please contact the shipper immediately. Claims for damage during transport must be filed by the equipment recipient, the recipient must keep the shipping box for inspection by the transport company.

**Attention:** It is highly recommended that all packaging materials be retained for future use when transporting equipment.



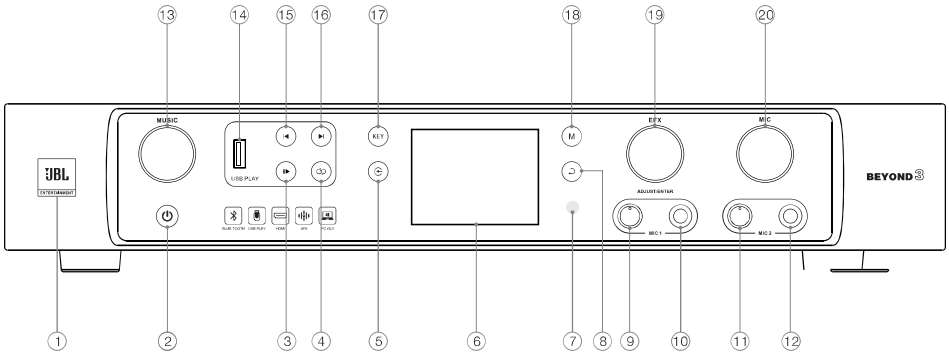
Do not transport equipment without factory packaging.

**The packing list is as follows:**

- 1 x Digital Integrated Amplifier
- 1 x Power Cord
- 2 x Bracket Accessories
- 1 x Remote Control
- 1 x User Manual
- 1 x Instructions for Environmental Protection
- 1 x Adhesive Front Panel Operation Label (It can be stick on top of the device cover for easy operation indication)

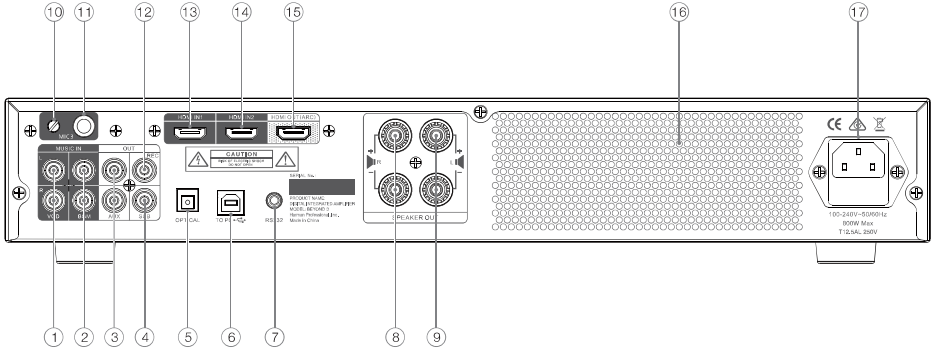
The operation method for all models of the BEYOND series digital integrated amplifiers is the same. This manual takes the images of BEYOND 3 for illustration.

## Front Panel



- ① LOGO: turns on when the equipment is started up.
- ② Power switch: turns on green when the equipment has power or is in standby mode, The LED changes to white after the equipment is switched on or woken from standby.
- ③ Play/Pause button: For use with USB flash drive playback. Press this button to play or pause audio.
- ④ Cycle button: When playing music on the USB flash disk, press this button to switch to single cycle, list cycle, and sequential cycle in sequence.
- ⑤ Input selection button: press button then rotate the **ADJUST/ENTER** knob to select the corresponding music signal input channel.
- ⑥ LCD display: displays current settings of the equipment, operation menus, and other information.
- ⑦ IR: accepts remote control signals.
- ⑧ Back button: press to go back to the main screen.
- ⑨ MIC 1 input gain control knob: rotate the knob to adjust the input gain of microphone 1.
- ⑩ MIC 1 input TRS socket (6,35 mm)
- ⑪ MIC 2 input gain control knob: rotate the knob to adjust the input gain of microphone 2.
- ⑫ MIC 2 input TRS socket (6.35 mm)
- ⑬ MUSIC button: rotate the knob to adjust the volume of music, Press to enter the music setup screen.
- ⑭ USB Flash Drive Port: insert the USB flash Drive and set the music input to USB/BT to play music.
- ⑮ Previous button: press this button to switch to the previous audio file on the USB Flash Drive.
- ⑯ Next button: press this button to switch to the next audio file on the USB Flash Drive.
- ⑰ KEY button: when playing music, press this button and rotate the **ADJUST/ENTER** knob to adjust the music key.
- ⑱ M button: press this button and rotate the **ADJUST/ENTER** knob to select the mode Press and hold this button and press the **ADJUST/ENTER** knob to save the mode.
- ⑲ EFX button: rotate and press the knob to adjust the effect volume. Press this button to enter the effect setup screen. This button is designed to reuse the **ADJUST/ENTER** knob functions.
- ⑳ MIC button: rotate the knob to adjust the microphone volume. Press to enter the microphone setup screen.

## Rear Panel

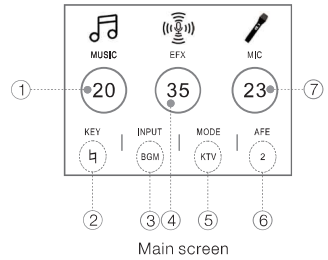


- ① VOD: Stereo analog signal input, RCA Connector.
- ② BGM: Stereo analog signal input, RCA Connector.
- ③ AUX: Stereo analog output, RCA Connector.
- ④ SUB: Mono-Analog signal for powered subwoofer, RCA Connector.
- ⑤ OPTICAL: accepts optical digital input signals.
- ⑥ USB: PC connection & Control vi Type-B connector.
- ⑦ RS232: 3.5 mm socket.
- ⑧ Right channel of amplifier output: used to connect to the speaker and providing a terminal.
- ⑨ Left channel of amplifier output: used to connect to the speaker and providing a terminal.
- ⑩ MIC 3 input gain control knob: rotate the knob to adjust the input gain of microphone 3.
- ⑪ MIC 3 input TRS socket (6,35 mm)
- ⑫ REC: Mono analog signal output, RCA Connector.
- ⑬ HDMI 1 input
- ⑭ HDMI 2 input
- ⑮ HDMI output/HDMI ARC
- ⑯ Air exhaust
- ⑰ Mains Power input

## Main Screen

After the startup, as well as, after 30s of inactivity, the system defaults to the main screen, as shown in the figure on the right,

- ① - The volume is set to 20.
- ② - The key is set neutral(original sound).
- ③ - The input source is set to the BGM.
- ④ - The effect volume is set to 35.
- ⑤ - The current mode is " KTV " .
- ⑥ - The microphone feedback suppression is set to level 2.
- ⑦ - The microphone volume is set to 23.

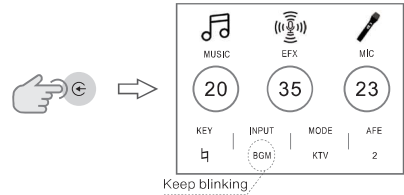


## Music Input Signal Selection

Press the button [G], The music input icon in the lower part of the main screen blinks, as shown in the figure on the right. Rotate the **ADJUST/ENTER** knob to select the desired input channel and press the **ADJUST/ENTER** knob to confirm the selection. The music input icon stops blinking and the selected input channel is displayed.

The equipment supports seven types of music input channels, including VOD, BGM, OPT, USB/BT, HDMI 1, HDMI 2 & ARC.

**Note:** When the icon stops blinking, no further adjustments can be made until that function is selected again.



## Music/Effect/Microphone Volume Adjustment

**Music volume adjustment:** When on the main screen, rotate the **MUSIC** knob to adjust the music volume.

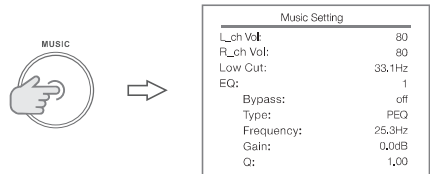
**Effect volume adjustment:** When the main screen, rotate the **EFX** knob to adjust the effect volume.

**Microphone volume adjustment:** When on the main screen, rotate the **MIC** knob to adjust the microphone volume.

**Note:** You must be on the main screen to use volume control.

## Music Setup

Press the **MUSIC** knob to enter the music setup menu, as shown in the figure below. Rotate the **ADJUST/ENTER** knob to select the desired menu item, which will turn yellow-green. Press the **ADJUST/ENTER** (the parameter value becomes yellow-green, when selected). Rotate the **ADJUST/ENTER** knob to modify the parameter, then press the **ADJUST/ENTER** knob to confirm and exit the setting.



The music setup menu and parameter values are as follows:

Menu	Description	Value Range	Remarks
L_ch Vol	Volume of the left channel for music output.	0~80	
R_ch Vol	Volume of the right channel for music output.	0~80	
Low Cut	Lower limit of the low frequency of music output.	off, 19.7Hz~303Hz	
EQ	Band of music equalization, There are 15 bands in total.	1~15	
Bypass	When the bypass is set to Off, the equalization setting is applied. When the bypass is set to On, the equalization setting is not applied.	Off, On	
Type	Equalization type. The options include: PEQ (parametric equalization), LS (low-shelf equalization), and HS (high-shelf equalization).	PEQ,LS,HS	
Frequency	The center frequency of the current equalization band	19.7Hz~20.2kHz	
Gain	The gain of the current equalization band	-24dB~+12dB	
Q	The bandwidth of the current equalization band	PEQ: 0.4~128 LS/HS: 0.4~2.0	

## Effect Setup

Press the **EFX** knob to enter the effect setup menu, as shown in the figure below. Rotate the **ADJUST/ENTER** knob to select the desired menu item, which will turn yellow-green. Press the **ADJUST/ENTER** knob to select (the parameter value becomes yellow-green, when selected). Rotate the **ADJUST/ENTER** knob to modify, then press the **ADJUST/ENTER** knob to confirm and exit the setting.



Effect Setting	
Echo Vol:	100%
Echo DirVol:	50%
Echo LowCut:	70Hz
Echo HighCut:	10500Hz
Echo PreDly:	0ms
Echo Delay:	200ms
Echo Repeat:	56%
Echo PreDly R:	0%
Echo Delay R:	0%
Echo Decay:	8.31K

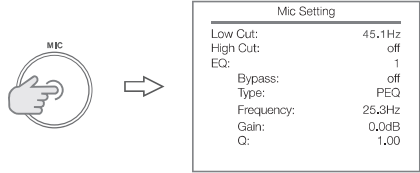
The effect setup menu and parameter values are as follows:

Menu	Description	Value Range	Remarks
Echo Vol	Echo volume.	0%~200%	
Echo DirVol	Echo direct volume.	0%~200%	
Echo LowCut	Lower limit of the low frequency of echo.	off, 19.7Hz~303Hz	
Echo HighCut	Upper limit of the high frequency of echo.	5.99KHz~20.2KHz	
Echo PreDly	Echo pre-delay time.	0ms~60ms	
Echo Delay	Echo delay time.	0ms~260ms	
Echo Repeat	Number of echoes, that is, energy ratio of each echo relative to the previous echo.	1%~90%	
Echo PreDly R	Echo pre-delay time of right channel.	0%~50%	
Echo Delay R	Echo delay time of right channel.	-50%~+50%	
Echo Decay	Frequency at which the high frequency of the echo begins to attenuate.	5.99KHz~20.2KHz	
Rev Vol	Reverberation volume.	0~200%	
Rev DirVol	Reverberation direct volume.	0~200%	
Rev LowCut	Lower limit of the low frequency of reverberation.	19.7~303Hz	
Rev HighCut	Upper limit of the high frequency of reverberation.	5.99~20.2KHz	
Rev PreDly	Reverberation pre-delay time.	0~80ms	
Rev Time	Reverberation time.	0~9200ms	
Echo EQ	Echo equalization, with five bands in total.	Type:PEQ,LS,HS Frequency:19.7Hz~20.2KHz Gain:-24dB~+12dB Q:0.4~128(PEQ);0.4~2.0(LS/HS)	For PC-GUI only
Rev EQ	Reverberation equalization, with five bands in total.	Type:PEQ,LS,HS Frequency:19.7Hz~20.2KHz Gain:-24dB~+12dB Q:0.4~128(PEQ);0.4~2.0(LS/HS)	For PC-GUI only
Early Reflection Vol	Early reflection volume of reverberation.	0~80	For PC-GUI only
Early Reflection Damping	Early high frequency of reverberation to start attenuation.	5.99K~20.2KHz	For PC-GUI only
Late Reflection Vol	Late reflection volume of reverberation.	0~80	For PC-GUI only
Late Reflection Damping	Late high frequency of reverberation to start attenuation.	5.99K~20.2KHz	For PC-GUI only
Space	Reverberation space.	25~75%	For PC-GUI only
Density	Reverberation density.	1~90%	For PC-GUI only
Damping	High frequency of reverberation to start attenuation.	5.99K~20.2KHz	For PC-GUI only



## Microphone Setup

Press the **MIC** knob to enter the microphone setup menu, as shown in the figure below. Rotate the **ADJUST/ENTER** knob to select the desired menu item, which will turn yellow-green. Press the **ADJUST/ENTER** knob (the parameter value becomes yellow-green, when selected). Rotate the **ADJUST/ENTER** knob to modify, then press the **ADJUST/ENTER** knob to confirm and exit the setting.



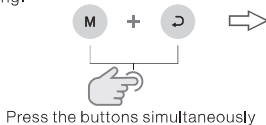
The Microphone Setup menu and parameter values are as follows:

Menu	Description	Value Range	Remarks
Low Cut	Lower limit of the low frequency of microphone.	off,19.7~303Hz	
High Cut	Upper limit of the high frequency of microphone.	5,99kHz~20,2kHz,off	
EQ	Band of music equalization, There are 15 bands in total.	1-15	
Bypass	When the bypass is set to Off, the equalization setting is valid. When the bypass is set to On, the equalization setting is invalid.	Off,On	
Type	Equalization type of the current band. The options include: PEQ (parametric equalization), LS (low-shelf equalization), and HS (high-shelf equalization).	PEQ,LS,HS	
Frequency	Center frequency of the current equalization band.	19.7Hz~20.2KHz	
Gain	Gain of the current equalization band.	-24~+12dB	
Q	Bandwidth of the current equalization band.	0.4~128(PEQ);0.4~2.0(LS,HS)	
Compressor_Thrsh	Start-up level of microphone compression.	-40~0dBu	For PC-GUI only
Compressor_Attack	Start-up time of microphone compression.	0,5ms~100ms	For PC-GUI only
Compressor_Release	Release time of microphone compression.	10ms~2000ms	For PC-GUI only
Compressor_Ratio	Ratio of microphone compression.	1,0~100	For PC-GUI only

## System Setup

Press **M** and **↻** simultaneously to enter the system setup menu. Rotate the **ADJUST/ENTER** knob to select the desired menu item, which will turn yellow-green. Press the **ADJUST/ENTER** knob to select the menu item (the parameter value becomes yellow-green).

Rotate the **ADJUST/ENTER** knob to modify the parameter value, and press the **ADJUST/ENTER** knob to confirm and exit the setting.



System Setting	
MSC InitVol:	20
MSC MaxVol:	40
MIC InitVol:	23
MIC MaxVOL:	45
EFX InitVol:	35
EFX MaxVol:	60
MIC AFE:	2
IR Switch:	Off
Brightness:	2
Init Mode:	KTV

The system setup menu and parameter values are as follows:

Menu	Description	Value Range	Remarks
MSC InitVol	Set the music volume at start up.	0 to maximum music volume	
MSC MaxVol	Set the maximum music volume.	Max music volume is 80	
MIC InitVol	Set the microphone volume at start up.	0 to maximum microphone volume	
MIC MaxVol	Set the maximum microphone volume.	Max microphone volume is 80	
EFX InitVol	Set the effect volume at start up.	0 to maximum effect volume	
EFX MaxVol	Set the maximum effect volume.	Max effect volume is 80	
MIC AFE	Set the intensity of microphone feedback inhibition. The greater the value, the higher the intensity.	Off, 1, 2, 3	
IR Switch	Off: The IR receiver function is disabled. On: The IR receiver function is enabled.	Off, On	
Brightness	Set the backlight brightness of the screen. The greater the value, the higher the brightness.	1, 2, 3	
Init Mode	AUTO: The system automatically uses the mode selected before shutdown as the power-on mode of the next time. KTV/PRO/SPCH: This is the preset mode before factory delivery, which is not configurable. USER1, to USER5: User defined modes.	AUTO, KTV, PRO, SPCH, USER 1 to USER 5	
SPK Model	Set the model of the external speaker, where "----" indicates the default configuration.	The preset speaker model varies with equipment model.	
SYS IM	Set the load impedance of the amplifier.	8 ohm (Ω), 4 ohm (Ω)	
BT Switch	Off: Bluetooth is disabled. On: The Bluetooth is enabled.	Off, On	
BT Name	Rename amplifiers Bluetooth ID, which has a maximum of 10 characters.	A~Z, 0~9, -, _	
Language	Set the display language of the menu screen.	Chinese, English	
SYS Ver	Display the firmware version of the equipment.		

## Bluetooth Pairing and Naming

### Bluetooth pairing:

The Bluetooth name of the amplifier can be found on the system setup menu. Use the target device (such as mobile phone) to search for the Bluetooth name of the amplifier and pair with it. After they are paired successfully, you can start playing music via Bluetooth.

### Bluetooth naming:

For example, to assign the Bluetooth name of "JBL" to the amplifier: Enter the system setup screen, select "Bluetooth Name" from the menu, press the "ADJUST/ENTER" knob to select it, rotate the ADJUST/ENTER knob until the parameter value is displayed as "J", press the ADJUST/ENTER knob to confirm the value and display the second letter, then rotate the ADJUST/ENTER knob until letter "B" is displayed, press the ADJUST/ENTER knob to confirm the value and display the third letter, and continue to rotate the ADJUST/ENTER knob. When the third letter is displayed as "L", press and hold the ADJUST/ENTER knob to confirm the new name and exit the setup screen.

## Bluetooth/USB Audio Playback

Set the music input mode to "USB/BT". The amplifier will automatically play audio files on the USB flash drive upon insertion.

By default, the equipment plays audio files on the USB flash drive preferentially. When you play audio files through Bluetooth, if you insert the USB flash disk, the equipment changes to play the audio files on the USB flash drive immediately.

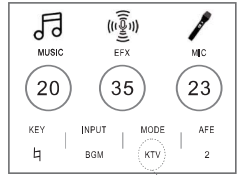
**Supported USB file systems:** FAT16, FAT32, and ExFAT/Fat64,

**Supported USB File formats:** MP3, WAV, APE, FLAC, and WMA

**USB Maximum capacity:** 32 GB

### Operating Mode Recalling and Saving

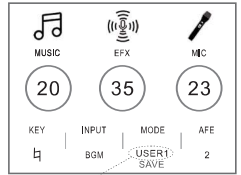
**To recall:** Press the **M** button. The operating mode icon in the lower part of the main screen begins blinking, as shown in the figure on the right. Rotate the **ADJUST/ENTER** Knob select the desired operating mode. Press the **ADJUST/ENTER** Knob to confirm and exit. The operating mode icon stops blinking and displays the new operating mode.



Keep blinking

Saving the operating mode

**Operating mode saving:** Long press the **M** button. The operating mode icon in the lower part of the main screen begins blinking, and "SAVE" is displayed below the icon, as shown in the figure on the right. Rotate the **ADJUST/ENTER** knob and select the desired operating mode to save. Press the **ADJUST/ENTER** knob to confirm and exit. The operating mode icon stops blinking and "SAVE" disappears.



Keep blinking

Saving the operating mode



**Note:** The KTV, PRO, and SPCH operating modes are not customizable. When saving the operating mode, you can select only USER1 to USER5 modes.

### Panel Button/Knob Lock Setup

Press and hold the **ADJUST/ENTER** and **MIC** knobs simultaneously for 3s to lock all knobs and buttons on the panel. To unlock, press and hold the **ADJUST/ENTER** and **MIC** knobs simultaneously for 3s again.

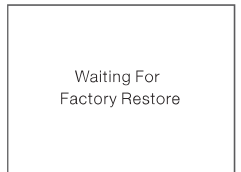
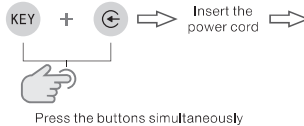
### Restore Factory Default Settings

Before performing this operation, check whether the power cord is connected with the equipment. If connected, unplug the power cord.

Press and hold **KEY** and **←** buttons simultaneously. Insert the power cord. The equipment automatically restores to the factory defaults. The green indicator on the power switch blinks. After the restoration is complete, the equipment enters standby, the screen is off, and the green indicator on the power switch is on.



**Note:** Restoring factory defaults erased all parameters and preset configured by the user. The system restored to its default factory configuration.



## Linkage Control/Firmware Update over PC

After connecting the amplifier to the PC through the USB connector on the rear of the unit, you can manage the equipment using the operation software (PC-GUI) or update the amplifier's firmware.

Install the operation software as follows:

1. Log in to JBL official website <https://www.jblpro.com/zh>, enter the entertainment product category, select the BEYOND series digital integrated amplifiers, and download the operation software.
2. Connect the PC and amplifier via USB.
3. Log in to the operation software UI of JBL BEYOND series digital integrated amplifiers.

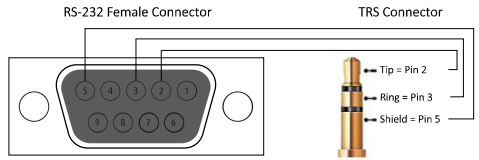
Update the firmware as follows:

1. Log in to JBL official website <https://www.jblpro.com/zh>, enter the entertainment product category, select the BEYOND series digital integrated amplifiers, and download the firmware update file (\*.Bin), and the firmware updater.
2. Press and hold **◀** and **▶** buttons simultaneously. Insert the power cord. The equipment automatically enters the interface, which will display the words "Software Updating". Connect the PC and amplifier via USB.
3. Run the firmware updater.
4. Open the firmware update file (\*.bin), and check the "CRC verify after download" box then click download.
5. Once the update is completed, restart the equipment as prompted.

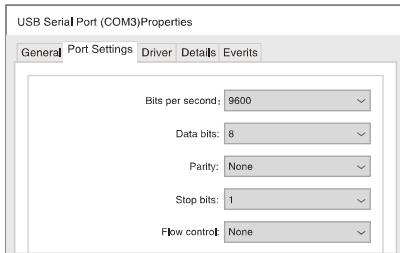
## RS232 INTERFACE AND PROTOCOL



Standard DB9 Female to 3.5mm Serial Cable



## Communication Port Setting



### General data format:

Item	Frame header	Frame length	ItemId	SubItem	Parameter	SumCRC
Bytes	(0xFE)1	1	1	1	2	1

SumCRC: Checksum, which is the sum of all CRC data (contains frame header), that is,  $crc = data1 + data2 + data3 + \dots$

Note: When SumCRC is equal to or greater than 0xFE, SumCRC is set to 0.

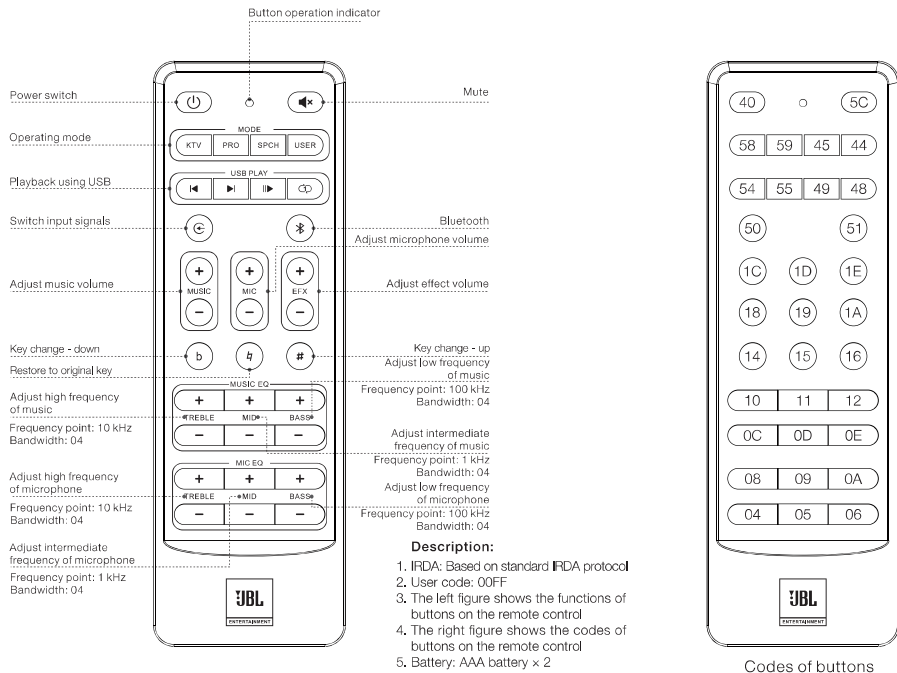
Description of frame length: 0x07 represents 7 bytes (with checksum) and 0x06 represents 6 bytes (without checksum)

Description of parameter width: If the parameter contains two bytes, it is in big endian mode (the high bytes are at first). For example 1:On/Power-on, (0x0001) -> 0x00 0x01, which is presented as FE 07 01 01 00 01 08 with check code, FE 06 01 01 00 01 without check code.

**Section 2: Remote Control and Control Code**
**Table of function code:**

Function	ItemId	SubItem	Parameter	Description
Standby	0x01	0x01	0x0000	1: On/Power-on, 0: OFF/shutdown/standby
Mute	0x02	0x01	0x0000	1: Mute, 0: Unmute
Switch mode	0x03	0x01	0x0000	1: KTV, 2: PRO, 3: SPCH, 4: USER1... , 8: USER5
Switch modes in cyclic mode	0x03	0x02	0x0000	0: Switch to next mode
Switch input signals	0x04	0x01	0x0000	1: VOD, 2: BGM, 3: OPT, 4: USB/BT, 5: HDMI 1, 6: HDMI 2, 7: ARC
Switch input signals in cyclic mode	0x04	0x02	0x0000	0: Switch to next signal
Bluetooth	0x05	0x01	0x0000	1: On, 0: OFF
Adjust music volume	0x06	0x01	0x0000	1: MUS+, 0: MUS-
Set music volume	0x06	0x02	0x0000	Music volume value
Adjust microphone volume	0x07	0x01	0x0000	1: MIC+, 0: MIC-
Set microphone volume	0x07	0x02	0x0000	Microphone volume value
Adjust effect volume	0x08	0x01	0x0000	1: EFX+, 0: EFX-
Set effect volume	0x08	0x02	0x0000	Effect volume value
Adjust the tone of music	0x09	0x01	0x0000	1: b3 , 2 : b2 , 3 : b1 , 4: # , 5: #1 , 6 : #2 , 7: #3
Switch the tones of music in cyclic mode	0x09	0x02	0x0000	0: Original tone, 1: Switch among b1, b2, and b3 in cyclic mode, 2: Switch among #1, #2, and #3 in cyclic mode
Adjust high frequency volume of music	0x0A	0x01	0x0000	0: -, 1: +
Adjust intermediate frequency volume of music	0x0A	0x02	0x0000	0: -, 1: +
Adjust low frequency volume of music	0x0A	0x03	0x0000	0: -, 1: +
Reset EQ volume of music	0x0A	0x04	0x0000	1: Reset to zero
Adjust high frequency volume of microphone	0x0B	0x01	0x0000	0: -, 1: +
Adjust intermediate frequency volume of microphone	0x0B	0x02	0x0000	0: -, 1: +
Adjust low frequency volume of microphone	0x0B	0x03	0x0000	0: -, 1: +
Reset EQ volume of microphone	0x0B	0x04	0x0000	1: Reset to zero
Playback using USB	0x0C	0x01	0x0000	0: Pause, 1: Play
Playback using USB - song switching	0x0C	0x02	0x0000	0: Next song, 1: Previous song
Playback using USB - cycle	0x0C	0x03	0x0000	0: Cancel single cycle, 1: Set single cycle, 2: Set list cycle

# Remote Control and Control Code



**Description:**

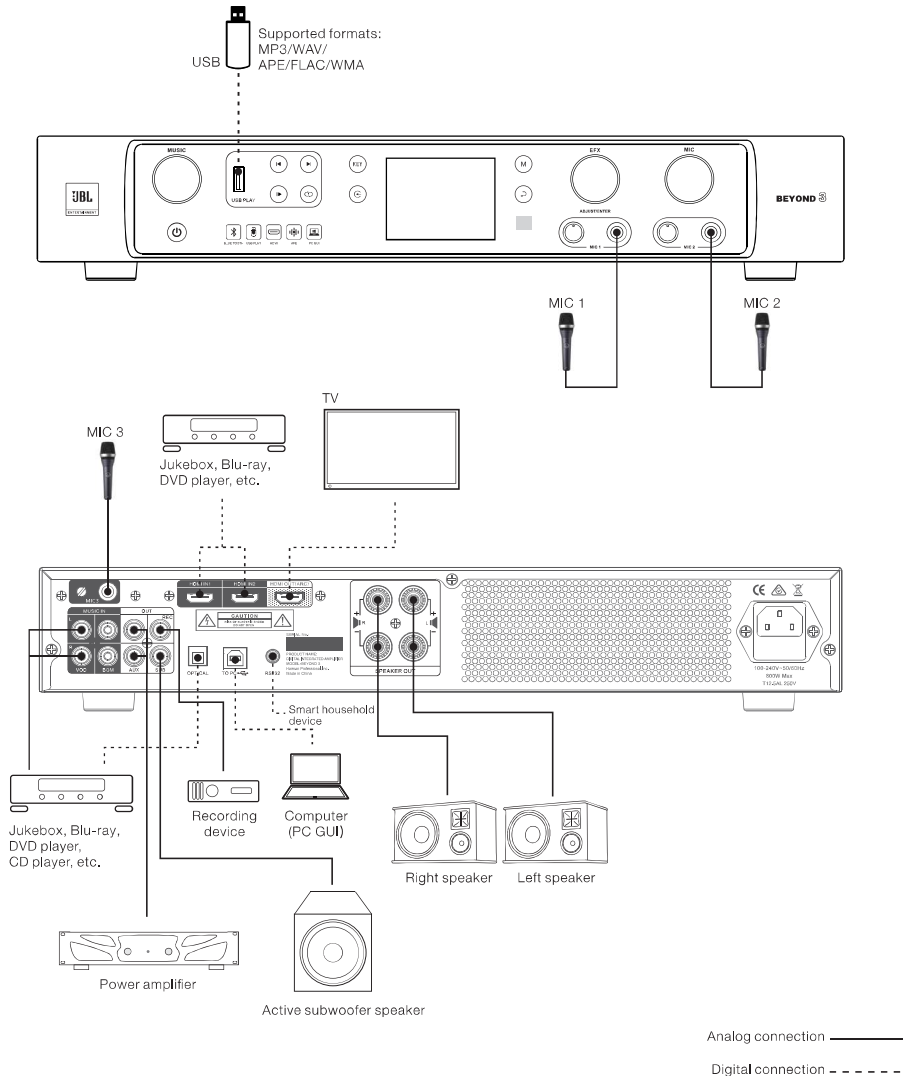
1. IRDA: Based on standard IRDA protocol
2. User code: 00FF
3. The left figure shows the functions of buttons on the remote control
4. The right figure shows the codes of buttons on the remote control
5. Battery: AAA battery x 2

# System Connection

Please refer to the following "Connection Diagram of Common Systems" for system connection.

**Attention:**

1. Make sure that all devices are powered off before connecting the system.
2. Please adjust the volume of all devices to the lowest level, and then turn on the power supply of the equipment.
3. The power supply of the equipment shall follow the principle of "Last on, First off".
4. In order to ensure proper HDMI playback, it is strongly recommended to use HDMI version 2.0 cables.
5. When transmitting the audio signal to this equipment through HDMI ARC, please set the audio signal output of the source to as "PCM" output.
6. When using the equipment, do obstruct the rear panel exhaust vent or block the air flow around the unit, as this will prevent proper cooling of the amplifier when in use and could result in unexpected operation,

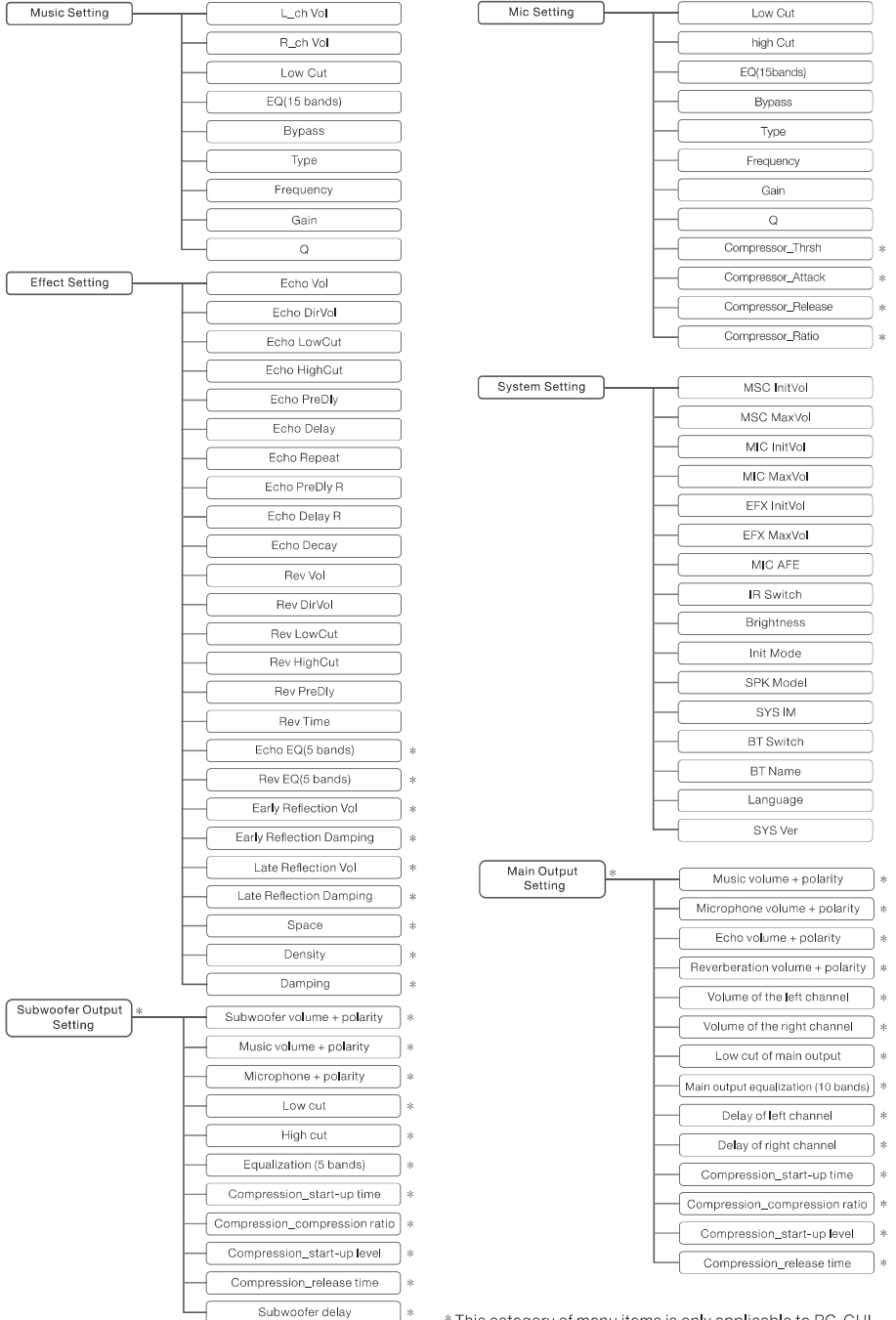


## Specification Parameters

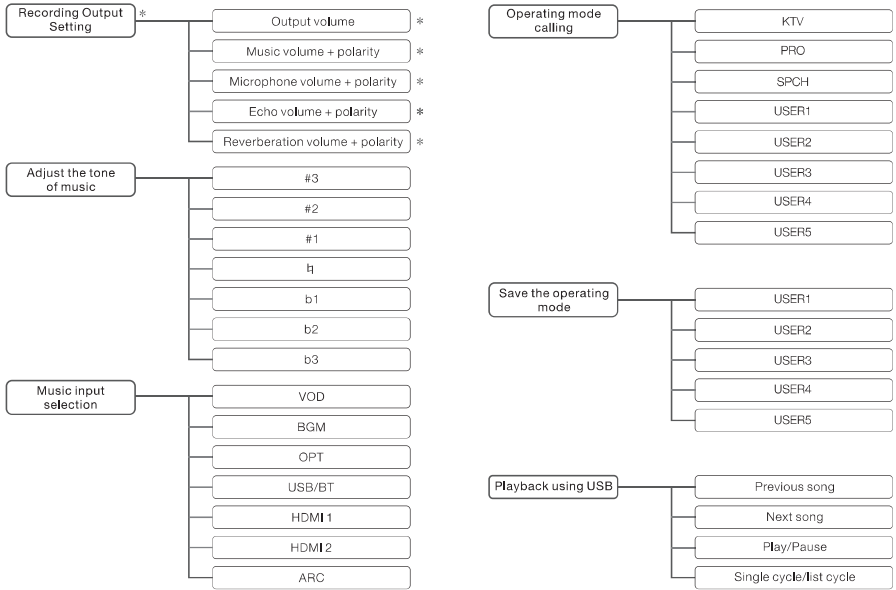
		BEYOND 1	BEYOND 3
<b>Input interface</b>			
Music input	Playback using USB	USB Type-A x 1	
	Stereo input	RCA x 2 (Groups)	
	HDMI input	HDMI x 2	
	ARC input	HDMI x 1	
	Optical input	Optical socket x 1	
Microphone input	1/4" JACK input	6.35 mm socket x 3	
<b>Output interface</b>			
HDMI output		HDMI x 1	
Stereo output		RCA x 1 (Group)	
Recording output		RCA x 1	
Subwoofer output		RCA x 1	
Speaker output		Binding Post terminal x 2 (Groups)	
<b>Control port</b>			
USB ( for PC control )		USB Type-B x 1	
RS232		3,5 mm socket x 1	
<b>Technical Specifications</b>			
Signal-to-noise ratio	RCA input, 8 ohm ( $\Omega$ ) load, A-weighted	$\geq 85$ dB	
	1/4" TRS input, 8 ohm ( $\Omega$ ) load, A-weighted	$\geq 75$ dB	
Frequency response	RCA input, 8 ohm ( $\Omega$ ) load, 1 W, 20~20 kHz	-1dB ~ +1dB	
	1/4" TRS input, 8 ohm ( $\Omega$ ) load, 1W, 50~14 kHz	-3dB ~ +1.5dB	
Distortion (THD+N)	RCA input, 8 ohm ( $\Omega$ ) load, 1 kHz, rated power output, 20~20 kHz bandwidth	$\leq 1\%$	
	1/4" TRS input, 8 ohm ( $\Omega$ ) load, 1 kHz, rated power output, 20~20 kHz bandwidth	$\leq 1\%$	
Input impedance	RCA input, f=1 kHz	3.2k ohms	
	1/4" TRS input, f=1 kHz	3.2k ohms	
Rated power	THD+N $\leq 1\%$ , 8 ohm ( $\Omega$ ) load, 1 kHz	2 x 180W	2 x 360W
Playback using USB	Audio format	MP3,WAV,APE,FLAC,WMA	
	File system	FAT16,FAT32,ExFAT/Fat64	
	Maximum capacity	32G	
Bluetooth	Version	V4.2/2.1+EDR	
	Dimensions (W x D x H)		Product: 42,8cm x 31,5cm x 7,6cm Packaging: 51cm x 44cm x 17cm
Net weight		5,4kg	5,8kg
Gross weight		7,0kg	7,4kg
Power requirements	JBL-BEYOND1CN : 220V-50Hz JBL-BEYOND3CN : 220V-50Hz	JBL-BEYOND1AP/J : 100V-240V-50/60Hz JBL-BEYOND3AP/J : 100V-240V-50/60Hz	



# Menu Structure



\* This category of menu items is only applicable to PC-GUI.



## Warranty Information

JBL offers a limited warranty on the BEYOND series digital integrated amplifiers from the date of the original purchase.

### WHO IS PROTECTED BY THIS WARRANTY?

Your JBL Warranty protects the original owner and all subsequent owners for one year, so long as: A.) Your JBL product has been purchased in China, Japan and/or other Asian countries. (This Warranty does not apply to JBL products purchased elsewhere except for purchases by military outlets. Other purchasers should contact the local JBL distributor for warranty information.); and B.) The original dated bill of sale is presented whenever warranty service is required.

### WHAT DOES THE JBL WARRANTY COVER?

Except as specified below, your JBL Warranty covers all defects in material and workmanship. The following are not covered: Damage caused by accident, misuse, abuse, product modification or neglect; damage occurring during shipment; damage resulting from failure to follow instructions contained in your Instruction Manual; damage resulting from the performance of repairs by someone not authorized by JBL; claims based upon any misrepresentations by the seller; any JBL product on which the serial number has been defaced, modified or removed.

### WHO PAYS FOR WHAT?

JBL will pay all labor and material expenses for all repairs covered by this warranty. Please be sure to save the original shipping cartons because a charge will be made if replacement cartons are requested. Payment of shipping charges is discussed in the next section of this warranty.

### HOW TO OBTAIN WARRANTY PERFORMANCE?

If your JBL product ever needs service, please contact your local dealer, Harman Authorized Service Center or Harman China Professional Product Customer Service Hotline (400 166 7806). We may direct you to an authorized JBL Service Agency or ask you to send your unit to the factory for repair. Either way, you'll need to present the original bill of sale to establish the date of purchase. Please do not ship your JBL product to the factory without prior authorization. If transportation of your JBL product presents any unusual difficulties, please advise us and we may make special arrangements with you. Otherwise, you are responsible for transporting your product for repair or arranging for its transportation and for payment of any initial shipping charges. However, we will pay the return shipping charges if repairs are covered by the warranty.

### LIMITATION OF IMPLIED WARRANTIES

All implied warranties, including warranties of merchantability and fitness for particular purpose, are limited in duration to the length of this warranty.

### EXCLUSION OF CERTAIN DAMAGES

JBL's liability is limited to the repair or replacement, at our option, of any defective product and shall not include incidental or consequential damages of any kind. Some states do not allow limitations on how long an implied warranty lasts and/or do not allow the exclusion of incidental or consequential damages, so the above limitations and exclusions may not apply to you. This warranty gives you specific legal rights, and you may also have other rights, which vary, from state to state.



BEYOND SERIES  
DIGITAL INTEGRATED AMPLIFIER  
USER MANUAL  
ISSUED: 05/2022