

# RIC 助听器参考参数

Https://yp.jhearing.com/webj10\_2022.php

## 模式 A

Current Mode: Mode A Read Mode Config Save Mode Config Restore Mode Config Reset Mode Config Backup All Modes Test Change Volume

General EQ WDRC Calibration and Others Parameter Key Ble Upgrade

Name	Value	
# Volume	<span>-8 dB</span>	This parameter only applicable for version after 2023-06-25
# Power on delay	<span>0</span> Seconds	After x seconds ,the DMIC will turn on to work
# Enabled Modules	<span>Enable EQ &amp; WDRC &amp; AFC</span>	
# Hardware Revision	<span>J10</span>	J10/J11 , Our firmware consider J10 as default hardware , <b>You need reboot your hearing aid to make effect</b> ,for Custom PCBA,we will deliver customized firmware for you
# BLE Display Name	<span>J10 BTE_L</span>	Only letter and digits allowed , maximum length is 20 bytes <b>You need reboot your hearing aid to make effect</b>
# Max Volume	<span>50 dB</span>	Max Volume when press button
# Min Volume	<span>0 dB</span>	Min Volume when press button
# Volume Step	<span>3 dB</span>	Volume Step when press button,default to 2
# ADC 校准值 ADC 0V Calibration Value	DISABLE THIS FEATURE	当DIO0 接0V的时候, ADC的实时数据作为ADC校准值 When DIO0 Input is 0V, ADC realtime value
# ADC 实时值 ADC Realtime Value	<span>0</span> <span>0</span>	ADC 实时数据,只读,不能修改 ADC Realtime Value,ReadOnly
# 低电量告警阈值 Low Battery Threshold	<span>50</span> %	以百分比表示 Percentage

Current Mode: Mode A Read Mode Config Save Mode Config Restore Mode Config Reset Mode Config Backup All Modes Test Change Volume

General EQ WDRC Calibration and Others Parameter Key Ble Upgrade

EQ0	EQ1	EQ2	EQ3	EQ4	EQ5	EQ6	EQ7
<span>0 dB</span>	<span>0 dB</span>	<span>0 dB</span>	<span>0 dB</span>	<span>0 dB</span>	<span>0 dB</span>	<span>0 dB</span>	<span>0 dB</span>

Current Mode: Mode A Read Mode Config Save Mode Config Restore Mode Config Reset Mode Config Backup All Modes Test Change Volume

General EQ WDRC Calibration and Others Parameter Key Ble Upgrade

Name	Band 0	Band 1	Band 2	Band 3	Band 4	Band 5	Band 6	Band 7
# Cross over Frequency 频率		317Hz	502Hz	797Hz	1264Hz	2005Hz	3181Hz	5044Hz
# Expansion Rate 放大系数	<span>0.5</span>	<span>0.5</span>	<span>0.6</span>	<span>0.6</span>	<span>0.6</span>	<span>0.6</span>	<span>0.6</span>	<span>0.6</span>
# Expansion Knee point 放大区拐点	<span>55 dB</span>	<span>55 dB</span>	<span>48 dB</span>	<span>48 dB</span>	<span>48 dB</span>	<span>48 dB</span>	<span>48 dB</span>	<span>48 dB</span>
# Linear Gain 线性增益	<span>22 dB</span>	<span>28 dB</span>	<span>30 dB</span>	<span>32 dB</span>	<span>30 dB</span>	<span>30 dB</span>	<span>28 dB</span>	<span>26 dB</span>
# Compress Knee 压缩拐点	<span>70 dB</span>	<span>70 dB</span>	<span>70 dB</span>	<span>70 dB</span>	<span>70 dB</span>	<span>70 dB</span>	<span>70 dB</span>	<span>70 dB</span>
# Compress Ratio 压缩系数	<span>2.0</span>	<span>2.0</span>	<span>2.0</span>	<span>2.0</span>	<span>2.0</span>	<span>2.0</span>	<span>2.0</span>	<span>2.0</span>
# Limit Knee 限制区拐点	<span>103 dB</span>	<span>105 dB</span>	<span>110 dB</span>	<span>110 dB</span>	<span>110 dB</span>	<span>105 dB</span>	<span>103 dB</span>	<span>100 dB</span>

# 模式 B

Current Mode: Mode B Read Mode Config Save Mode Config Restore Mode Config Reset Mode Config Backup All Modes Test Change Volume

General EQ WDRC Calibration and Others Parameter Key Ble Upgrade

Name	Value	
# Volume	<span>-8 dB</span>	This parameter only applicable for version after 2023-06-25
# Power on delay	<span>0</span> Seconds	After x seconds ,the DMIC will turn on to work
# Enabled Modules	<span>Enable EQ &amp; WDRC &amp; AFC</span>	
# Hardware Revision	<span>J10</span>	J10/J11 , Our firmware consider J10 as default hardware , <b>You need reboot your hearing aid to make effect</b> ,for Custom PCBA,we will deliver customized firmware for you
# BLE Display Name	<span>J10 BTE_L</span>	Only letter and digits allowed , maximum length is 20 bytes , <b>You need reboot your hearing aid to make effect</b>
# Max Volume	<span>50 dB</span>	Max Volume when press button
# Min Volume	<span>0 dB</span>	Min Volume when press button
# Volume Step	<span>3 dB</span>	Volume Step when press button,default to 2
# ADC 校准值 ADC 0V Calibration Value	DISABLE THIS FEATURE	当DIO0 接0V的时候, ADC的实时数据作为ADC校准值 When DIO0 Input is 0V,ADC realtime value
# ADC 实时值 ADC Realtime Value	<span>0</span> <span>0</span>	ADC 实时数据,只读, 不能修改 ADC Realtime Value,Readonly
# 低电量告警阈值 Low Battery Threshold	<span>50</span> %	以百分比表示 Percentage

Current Mode: Mode B Read Mode Config Save Mode Config Restore Mode Config Reset Mode Config Backup All Modes Test Change Volume

General EQ WDRC Calibration and Others Parameter Key Ble Upgrade

EQ0	EQ1	EQ2	EQ3	EQ4	EQ5	EQ6	EQ7
<span>0 dB</span>	<span>0 dB</span>	<span>0 dB</span>	<span>0 dB</span>	<span>0 dB</span>	<span>0 dB</span>	<span>0 dB</span>	<span>0 dB</span>

Current Mode: Mode B Read Mode Config Save Mode Config Restore Mode Config Reset Mode Config Backup All Modes Test Change Volume

General EQ WDRC Calibration and Others Parameter Key Ble Upgrade

Name	Band 0	Band 1	Band 2	Band 3	Band 4	Band 5	Band 6	Band 7
# Cross over Frequency 频率		317Hz	502Hz	797Hz	1264Hz	2005Hz	3181Hz	5044Hz
# Expansion Rate 放大系数	<span>0.3</span>	<span>0.3</span>	<span>0.4</span>	<span>0.4</span>	<span>0.4</span>	<span>0.4</span>	<span>0.4</span>	<span>0.4</span>
# Expansion Knee point 放大区拐点	<span>51 dB</span>	<span>50 dB</span>	<span>50 dB</span>	<span>50 dB</span>	<span>50 dB</span>	<span>50 dB</span>	<span>50 dB</span>	<span>50 dB</span>
# Linear Gain 线性增益	<span>20 dB</span>	<span>33 dB</span>	<span>38 dB</span>	<span>39 dB</span>	<span>39 dB</span>	<span>39 dB</span>	<span>39 dB</span>	<span>37 dB</span>
# Compress Knee 压缩拐点	<span>55 dB</span>	<span>55 dB</span>	<span>55 dB</span>	<span>55 dB</span>	<span>55 dB</span>	<span>55 dB</span>	<span>50 dB</span>	<span>50 dB</span>
# Compress Ratio 压缩系数	<span>2.0</span>	<span>2.0</span>	<span>2.0</span>	<span>2.0</span>	<span>2.0</span>	<span>2.0</span>	<span>2.0</span>	<span>2.0</span>
# Limit Knee 限制区拐点	<span>100 dB</span>	<span>100 dB</span>	<span>114 dB</span>	<span>114 dB</span>	<span>114 dB</span>	<span>114 dB</span>	<span>105 dB</span>	<span>105 dB</span>

# 模式 C

Current Mode: Mode C Read Mode Config Save Mode Config Restore Mode Config Reset Mode Config Backup All Modes Test Change Volume

General EQ WDRC Calibration and Others Parameter Key Ble Upgrade

Name	Value	
# Volume	<span>-8 dB</span>	This parameter only applicable for version after 2023-06-25
# Power on delay	<span>0</span> Seconds	After x seconds ,the DMIC will turn on to work
# Enabled Modules	<span>Enable EQ &amp; WDRC &amp; AFC</span>	
# Hardware Revision	<span>J10</span>	J10/J11 , Our firmware consider J10 as default hardware , <b>You need reboot your hearing aid to make effect</b> ,for Custom PCBA,we will deliver customized firmware for you
# BLE Display Name	<span>J10 BTE_L</span>	Only letter and digits allowed , maximum length is 20 bytes <b>You need reboot your hearing aid to make effect</b>
# Max Volume	<span>50 dB</span>	Max Volume when press button
# Min Volume	<span>0 dB</span>	Min Volume when press button
# Volume Step	<span>3 dB</span>	Volume Step when press button,default to 2
# ADC 校准值 ADC OV Calibration Value	DISABLE THIS FEATURE	当DIO0 接0V的时候, ADC的实时数据作为ADC校准值 When DIO0 Input is 0V, ADC realtime value
# ADC 实时值 ADC Realtime Value	<span>0</span> <span>0</span>	ADC 实时数据,只读, 不能修改 ADC Realtime Value,Readonly
# 低电量告警阈值 Low Battery Threshold	<span>50</span> %	以百分比表示 Percentage

Current Mode: Mode C Read Mode Config Save Mode Config Restore Mode Config Reset Mode Config Backup All Modes Test Change Volume

General EQ WDRC Calibration and Others Parameter Key Ble Upgrade

EQ0	EQ1	EQ2	EQ3	EQ4	EQ5	EQ6	EQ7
<span>0 dB</span>	<span>0 dB</span>	<span>0 dB</span>	<span>0 dB</span>	<span>0 dB</span>	<span>0 dB</span>	<span>-5 dB</span>	<span>-10 dB</span>

Current Mode: Mode C Read Mode Config Save Mode Config Restore Mode Config Reset Mode Config Backup All Modes Test Change Volume

General EQ WDRC Calibration and Others Parameter Key Ble Upgrade

Name	Band 0	Band 1	Band 2	Band 3	Band 4	Band 5	Band 6	Band 7
# Cross over Frequency 频率		317Hz	502Hz	797Hz	1264Hz	2005Hz	3181Hz	5044Hz
# Expansion Rate 放大系数	<span>0.3</span>	<span>0.3</span>	<span>0.5</span>	<span>0.6</span>	<span>0.6</span>	<span>0.6</span>	<span>0.7</span>	<span>0.7</span>
# Expansion Knee point 放大区拐点	<span>60 dB</span>	<span>50 dB</span>	<span>50 dB</span>	<span>45 dB</span>	<span>45 dB</span>	<span>45 dB</span>	<span>45 dB</span>	<span>45 dB</span>
# Linear Gain 线性增益	<span>20 dB</span>	<span>33 dB</span>	<span>38 dB</span>	<span>39 dB</span>	<span>39 dB</span>	<span>39 dB</span>	<span>39 dB</span>	<span>37 dB</span>
# Compress Knee 压缩拐点	<span>55 dB</span>	<span>55 dB</span>	<span>55 dB</span>	<span>55 dB</span>	<span>55 dB</span>	<span>55 dB</span>	<span>50 dB</span>	<span>50 dB</span>
# Compress Ratio 压缩系数	<span>2.0</span>	<span>2.0</span>	<span>2.0</span>	<span>2.0</span>	<span>2.0</span>	<span>2.0</span>	<span>2.0</span>	<span>2.0</span>
# Limit Knee 限制区拐点	<span>100 dB</span>	<span>100 dB</span>	<span>114 dB</span>	<span>114 dB</span>	<span>114 dB</span>	<span>114 dB</span>	<span>105 dB</span>	<span>105 dB</span>

# 模式 D

Current Mode: Mode D Read Mode Config Save Mode Config Restore Mode Config Reset Mode Config Backup All Modes Test Change Volume

General **EQ** WDRC Calibration and Others Parameter Key Ble Upgrade

Name	Value	
# Volume	<span>-8 dB</span>	This parameter only applicable for version after 2023-06-25
# Power on delay	<span>0</span> Seconds	After x seconds ,the DMIC will turn on to work
# Enabled Modules	<span>Enable EQ &amp; WDRC &amp; AFC</span>	
# Hardware Revision	<span>J10</span>	J10/J11 , Our firmware consider J10 as default hardware , <b>You need reboot your hearing aid to make effect</b> ,for Custom PCBA,we will deliver customized firmware for you
# BLE Display Name	<span>J10 BTE_L</span>	Only letter and digits allowed , maximum length is 20 bytes <b>You need reboot your hearing aid to make effect</b>
# Max Volume	<span>50 dB</span>	Max Volume when press button
# Min Volume	<span>0 dB</span>	Min Volume when press button
# Volume Step	<span>3 dB</span>	Volume Step when press button,default to 2
# ADC 校准值 ADC 0V Calibration Value	DISABLE THIS FEATURE	当DIO0 接0V的时候, ADC的实时数据作为ADC校准值 When DIO0 Input is 0V, ADC realtime value
# ADC 实时值 ADC Realtime Value	<span>0</span> <span>0</span>	ADC 实时数据,只读, 不能修改 ADC Realtime Value,Readonly
# 低电量告警阈值 Low Battery Threshold	<span>50</span> %	以百分比表示 Percentage

Current Mode: Mode D Read Mode Config Save Mode Config Restore Mode Config Reset Mode Config Backup All Modes Test Change Volume

General **EQ** WDRC Calibration and Others Parameter Key Ble Upgrade

EQ0	EQ1	EQ2	EQ3	EQ4	EQ5	EQ6	EQ7
<span>0 dB</span>	<span>0 dB</span>	<span>0 dB</span>	<span>0 dB</span>	<span>0 dB</span>	<span>0 dB</span>	<span>0 dB</span>	<span>0 dB</span>

Current Mode: Mode D Read Mode Config Save Mode Config Restore Mode Config Reset Mode Config Backup All Modes Test Change Volume

General EQ **WDRC** Calibration and Others Parameter Key Ble Upgrade

Name	Band 0	Band 1	Band 2	Band 3	Band 4	Band 5	Band 6	Band 7
# Cross over Frequency 频率		317Hz	502Hz	797Hz	1264Hz	2005Hz	3181Hz	5044Hz
# Expansion Rate 放大系数	<span>0.3</span>	<span>0.3</span>	<span>0.5</span>	<span>0.6</span>	<span>0.6</span>	<span>0.6</span>	<span>0.7</span>	<span>0.7</span>
# Expansion Knee point 放大区拐点	<span>45 dB</span>	<span>45 dB</span>	<span>45 dB</span>	<span>45 dB</span>	<span>45 dB</span>	<span>45 dB</span>	<span>45 dB</span>	<span>45 dB</span>
# Linear Gain 线性增益	<span>20 dB</span>	<span>28 dB</span>	<span>33 dB</span>	<span>34 dB</span>	<span>34 dB</span>	<span>34 dB</span>	<span>34 dB</span>	<span>32 dB</span>
# Compress Knee 压缩拐点	<span>65 dB</span>	<span>65 dB</span>	<span>65 dB</span>	<span>65 dB</span>	<span>65 dB</span>	<span>65 dB</span>	<span>65 dB</span>	<span>65 dB</span>
# Compress Ratio 压缩系数	<span>1.5</span>	<span>1.5</span>	<span>1.5</span>	<span>1.5</span>	<span>1.5</span>	<span>1.5</span>	<span>1.5</span>	<span>1.5</span>
# Limit Knee 限制区拐点	<span>100 dB</span>	<span>100 dB</span>	<span>114 dB</span>	<span>114 dB</span>	<span>114 dB</span>	<span>114 dB</span>	<span>105 dB</span>	<span>105 dB</span>