

## Omnixie User manual v1.2.2D beta2



© 2025-06-22 Omnixie

Web v1.2.2D Software v1.5.3 Hardware v1.2.0

#### Attention

- Attention: To prevent accidental damage, do not place the Omnixie on an uneven surface.
- Warning: The Omnixie has an internal high voltage circuit. DO NOT open; DO NOT touch the components while the Omnixie is operating.
- Warning: The Omnixie should not be placed in direct sunlight to avoid UV light discoloration on the veneer panel.
- Warning: The included power adapter can handle high current and therefore allow normal operation. DO NOT use other type of power adapter.
- Warning: The Omnixie is for indoor use only, and should not be placed in areas with 95%+ humidity.
- Warning: Please keep out of the reach of children.

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# Package Contents

Before getting started, please check the contents of the package. If any parts are missing, please contact the seller. Package consists of the following items:



The included power adapter can handle high current and therefore allow normal operation. DO NOT use other type of power adapter.



## Dimension





There may be slight differences in the height of Nixie tubes from different batches(The above dimensions are for reference only).

# Technical Specifications

Name	Specifications
Nixie Tubes	R Z568M
Power input	USB Type-C DC12V 800mA(Max)
WIFI	IEEE 802.11 b/g/n
Frequency range	2.412GHz – 2.484GHz
Antenna	Built-in PCB board antenna
Dimension	Base 560mm(L) x 140mm(W) x 15mm(H)
	Height of Nixie tubes 110mm
Material of housing	Aluminum base
Operation temperature	0°C - 60°C
Weight	~2.53kg (Only the Omnixie clock)
	~5.35kg (Complete packaging)

## Features

Name	Description
Swappable Nixie tubes and colon tubes	Gold-plated connectors ensure stable and reliable connection with easy tube replacement.
WIFI synchronization	Built-in WIFI module, connect to router automatically and sync date and time from NTP server (NTP time accuracy can reach 1-50ms) after initial setup, never worry about the accuracy, leap year, leap seconds. Daylight saving time can be automatically adjusted. High-precision network time please refer to https://time.is
Web configuration (Support iOS, Android, Mac OS, Windows)	Built-in web server, open any web browser to access the interface page (Dashboard) to configuration of all Omnixie features including WIFI parameter settings, NTP settings, system status, general settings, display settings, alarm settings and firmware upgrade.
DHCP 、 mDNS 、 SSDP support	Support DHCP settings for external network access, supports mDNS for browser domain name access (no need to remember device IP address), supports SSDP for fast network discovery.
OTA firmware upgrade	The system firmware can be upgraded directly through the Web interface without any special equipment.
Support GMT setting	Supports GMT time zone setting. The system will automatically convert the local date and time according to the GMT time zone settings.
Support DST setting	Supports DST settings. Customize the start and end dates for daylight saving time to adapt to different countries daylight saving time rules.
Brightness adjustable	8 brightness levels for Nixie tubes and backlights, which can also be automatically adjusted according to ambient light conditions (to allow sleep at night).
Talking clock	Intelligent speech system in English, Chinese Mandarin, Japanese and German. The interval and alarm music are user customizable.
Alarm	Four individually configurable alarm clocks, supports snooze function. (weekend activation optional)
Music key tone and alarm	Variety of key tone sound effects for easy setting confirmation. 12 kinds of alarm music, the alarm volume can be set independently.
Switch On/Off automatically	On and Off time can be set for longer tube lifetime.
IR remote	IR remote controller operation.
Volume adjustable	8 volume levels. Independent Alarm volume, mute does not affect the alarm sound.
Digits transition effects	1. Normal 2. Fade in-out 3. Crossfading 4. Slot machine.
Transition speed adjustable	Ten speeds available for the transition.
Colons effects	1. Fade in-out 2. Blinking 3. Always on 4. Always off

## IR Remote

power °	power	Power	Power ON/OFF
	Н	LIGHT	Set Brightness
	SET	SET	Enter setup
		DATE	Display date
	ALARM	ALARM	Display alarm
	¶. ■	TEMP	NOT IN USE
		LEFT/RIGH	IT Move cursor position
	Fucce 1	FUNC	Enter menu
	OK	OK/CANC	EL Save/Abort
		NUMBER	Enter numbers

## **Power Adapter**



- Input: 100-240VAC, 50/60Hz.
- Standard USB Type-C output.
- Output DC 12V, Max 20W.

#### A

- In order to insure proper operation, only use the supplied power adapter.
- If you need to use another type of power supply, please make sure that the power supply complies with the USB-C PD 12/1A standard.

## Get Ready Before Use

#### Install Nixie tubes



#### Plug in Power Cable



- Face the dights of Nixie tube, align the pins with the sockets and gently insert the tube.
- Adjust the vertical angle of the Nixie tubes after all tubes are inserted.
- If a tube cannot be easily inserted, please check whether the pins are misaligned or bent.
- Face the neons of colon tube, align the pins with the sockets and insert.
- Plug the power plug into the socket on the back of the Omnixie to turn on the power.
- The Omnixie will start working immediately after power is applied.

#### WiFi Status Indicator

The color of Omnixie's WiFi status indicates the current WiFi link status with the following color information:

Color	Status
Red	WiFi router not connected, waiting for configuration.
Yellow	WiFi connected, but the NTP server is not connected.
Green	WiFi connected, and the NTP server is connected.

#### Cleaning

Consider the notes bellow before cleaning the Omnixie.

- Please power off and disconnect power before cleaning.
- Do not use any cleaning agent or wet wiper.
- We suggest use soft cloth or brush to avoid scratching the housing finish.

## WiFi Introduction

The Omnixie can connect to routers via WiFi and access NTP time servers to get accurate network time (NTP servers are located all over the world and choose the fastest connected server based on your location). Additionally, a phone or computer can use the same WiFi connection to set all features of the Omnixie.





For the first connection, about 10 seconds after the Omnixie is powered on, the WIFI status indicator will light up in red to indicate that the Omnixie WIFI is not connected to any network and is waiting for configuration. At this point you can use any of the following methods to connect and configure the WIFI network.

- The Omnixie needs to be set to use your home network and requires a "one time" setup.
- On first power-up, the clock creates a WiFi hotspot for the initial configuration.
- On your phone or PC: Go to the WiFi settings and look for an SSID like: Omnixie xxxxxx. This is your Omnixie clock.
- Temporarily connect to the clock WiFi SSID and a configuration window should open, or simply browse to http://192.168.4.1
- Teach your Omnixie to connect and use your own WiFi network by selecting your home SSID and providing the network password.
- When completed, the Omnixie will reboot and automatically connect to your WiFi.
- Your phone or PC will automatically reconnect back to your home network.
- Omnixie configuration will now use your WiFi network. Use your phone or PC browser to view your Omnixie for complete clock configuration information. Detailed steps for Android, iOS and Windows PC follow.



#### WiFi Configuration with iPhone Other iOS devices can refer to this method.

# iPhone

#### WiFi Configuration with iPhone

Open the **Settings**->**WLAN**, turn on **WLAN**, select Omnixie\_xxxxx (xxx is a serial # of your clock) in the list. After the network is connected, the WiFi configuration interface will pop up automatically and start to scan the available WiFi networks as shown in the following figure:



After scanning, all nearby available WiFi networks will display, click the WiFi name and enter the password, then click **Connect** button to save the configuration. If no nearby WiFi networks are displayed, please click **Scan again** button to rescan.

No SIM	01:12 captive.apple.com Omnixie_c8480b	4 🛱 75% 🚱	No SIM	01:12 captive.apple.com Omnixie_c8480b	🔊 🛱 75% 🕵	No SIM	01:12 captive.apple.com Omnixie_c8480b	🕈 🛱 75% 📢
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	<b>a</b> 78%		1	Connect				
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	SSID			Scan again				
	Password							
			$^{\sim}$		Done			
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	Scan again							
© 201	0-2025	eserved						
De	signed by Zeyuan Yan (China/Californi	a US)						

After the WiFi configuration is completed, The Omnixie will reboot and connect to the WiFi automatically. If the connection is successful, the WiFi status indicator will light **yellow** or **green**. If WiFi status indicator still red after rebooting, it indicates that the WiFi password just entered is incorrect, please select again to make settings.



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- Omnixie's network name starts with Omnixie followed by 6-digit identifier.
- For more information of colors of WIFI status indicator, please refer to Get Ready Before Use-> WIFI Status Indicator.
- To reset WIFI settings please refer to Setup the Omnixie using the Omnixie Dashboard -> Advanced Setup.

#### Open Dashboard with iPhone

#### Method one: Open Safari, type omnixie.local to open Dashboard.

**Method two**: After open Dashboard, click **MENU** button below, click **Add to Home Screen** button, then you can open Dashboard on the phone desktop as an App.





## WiFi Configuration with Android



#### WiFi Configuration with Android

Open the **Settings->WLAN**, enable **WLAN**, select Omnixie\_xxxxx in the list. After network is connected, the WiFi configuration interface will pop up automatically and start to scan the available WiFi networks as shown in the following figure:

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CMCC-G3NZ	<b>€ (\$ )</b>	CMCC-G3NZ	ê 🗢 🖒		Scan again
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Add network		Add network		Designed by	Zeyuan Yan (China/California US)
Advanced settings	×	Advanced settings	5		
= ↔	5		5		6 D

If WiFi configuration interface does not pop up automatically, please open browser and type **192.168.4.1** to open WiFi configuration interface.

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After scanning, all nearby available WiFi networks will display, click the WiFi name and enter the password, then click **Connect** button to save the configuration. If no nearby WiFi networks are displayed, please click **Scan again** button to rescan.

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Password				
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Designed by Zeyuan Yan (China/California US)	Designed by Zeyuan Yan (China/Cali	fornia US)		
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After the WiFi configuration is completed, The Omnixie will reboot and connect to the WiFi automatically. If the connection is successful, the WiFi status indicator will light **yellow** or **green**. If WiFi status indicator still red after rebooting, it indicates that the WiFi password just entered is incorrect, please select again to make settings.



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- Omnixie's network name starts with Omnixie followed by 6-digit identifier.
- For more information of colors of WIFI status indicator, please refer to Get Ready Before Use-> WIFI Status Indicator.
- To reset WIFI settings please refer to Setup the Omnixie using the Omnixie Dashboard -> Advanced Setup.

#### Open Dashboard on Android

Please use the IR remote controller to check the Menu 15 for IP address of the clock (press FUNC key, LEFT key, LEFT key, and OK key in sequence), then input the IP address on your web browser, the Omnixie Clock Dashboard shows up.

After open Dashboard, click **menu** button, click **Tools** button, click **Add shortcut**, click **OK**, then you can open Dashboard on the phone desktop as an App





## WiFi Configuration with Windows



#### WiFi Configuration with Microsoft Windows

Open the **Start->Settings->Network** and **Internet->WLAN** using a computer with Windows 11 installed, then select the network **Omnixie\_xxxxxx** in the **WLAN list** on the right. Waiting for the network connection, WiFi configuration page will pop up automatically and start scanning available WiFi networks. If the WiFi configuration interface does not pop up automatically, please open any browser and enter **192.168.4.1** to open the WiFi configuration interface as shown below:





Omnixie`s network name starts with Omnixie followed by 6-digit indetifier.

### WiFi Connection



After the WiFi configuration is completed, The Omnixie Will reboot and connect to the WiFi automatically. If the connection is successful, the WiFi status indicator will light **yellow** or **green**. If WiFi status indicator still red after rebooting, it indicates that the WiFi password just entered is incorrect, please select again to make settings.



#### 

- Omnixie`s network name starts with Omnixie followed by 6-digit identifier.
- For more information of colors of WIFI status indicator, please refer to Get Ready Before Use-> WIFI Status Indicator.
- To reset WIFI settings please refer to Setup the Omnixie using the Omnixie Dashboard -> Advanced Setup.

#### Open Dashboard on Microsoft Windows

**Method one**: Open the browser, enter **omnixie.local** to open the Omnixie dashboard. **Method two**: Open the **Network**, in the **Home Automation** category will see the Omnixie's icon, double-click the icon to open the Omnixie Dashboard. You can also right-click the icon to see the Omnixie device properties. You can also set the page address as a shortcut on the desktop.

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	<ul> <li>Comparison of the type of type of the ty</li></ul>	+
	Advanced C Upgrade	
	Omnixie Website E-mail us © 2010-2025 Omnixie®   跨光钟 - All Rights Reserved Designed by Zeyuan Yan (China/California US)	
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Setup the Omnixie using the

Omnixie Dashboard

# **Omnixie Clock Dashboard**

## Set the Omnixie using the Dashboard

Introduction of the Dashboard

The Dashboard is an interface for remote control and operation of the Omnixie, it includes eight functional modules: **WiFi Setup**, **System Status**, **NTP Setup**, **General Setup**, **Display Setup**, **Set Alarms**, **Advanced Setup**, **Upgrade Firmware**.

Comnixie Graphite Gray
<sup>⊕</sup> Wifi Setup           ••• <sup>⊕</sup> Status
(S NTP Setup
12 <sup>8</sup> Display 🕜 Alarms
Advanced C Upgrade
Omnixie Website E-mail us
© 2010-2025 Omnicec®   FB945# - All Rights Reserved Designed by Zeyuan Yan (ChinalCallfornia US)

#### Set Language of the Dashboard

Click the language button in the upper right corner to switch Dashboard language as shown below:



#### WiFi Setup

#### WiFi network parameter setting.



Name	Option	Description
Device Name	The default is Omnixie, network	name of the Omnixie.
SSID	The name of the connected netw	ork, this is usually the SSID name of the connected router.
Scan	Click Scan button and select the	name in the list if you want to connect a different router.
WiFi Password	The password of the network.	
DHCP	Enabled	Default
	Disabled	
Username	admin, cannot be changed.	
Password	Access password for the Omnixie Dashboard.	
Confirm Password	Repeat password.	
Disable mDNS	Multicast DNS. (Advanced network settings)	
Allow Anonymous	(Advanced network settings)	
SoftAP always ON	(Advanced network settings)	
Disable Captive DNS	(Advanced network settings)	

"Advanced network settings" items usually do not need to be set.

#### System Status

View operating parameters of the Omnixie system.

System Status   Yersion: v1.2.D   Host name: Omnixie.local   IP address: 192.168.20.16   Gateway: 192.168.20.16   Gateway: 192.168.20.16   MAC address: 255.255.255.0   MAC address: P.C.C.A2.6C.58.DE   SSID: Omnixie_loT_2.46(56%).   Wifi status: CONNECTED   MTP address: pool.np.org   MTP atdress: pool.np.org   TP status: CO.2025.06-23.13:12:24.008   Ime zone: (UTC-08:00) Pacific Time (US and Canada), Tjuana   Day light saving: Auto Serial number:   Back   Serial number: Gottink: Back Source Unixie/OFE Keenved Desabled Back Serial number: Connixie Wobsite Connixie Value E-mail us Connixie Origitig ### + All Rights Reserved Desared Desared 2 Omnixie.local (*) Omnixie.local (*) Omnixie.local (*)	21:12 🕇		al 🗢 🚺	
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Host name: Municipal Code Praddress: 192,168,20,165 Gateway: 292,168,20,1 Netmask: 255,255,255.0 McC address: P4:CF.42.6C.54.6(56%). SSID: Ministatus: CONNECTED MTP address: pool.ntp.org MTP atatus: NTP Synchronized. Last sync time: UTC 2025-06-23 131:224.008 Time zon: (UTC-08:00) Pacific Time (US and Canada), Tijuana Bay light saving: Auto By light saving: Auto By light saving: Disabled Auto ON time: Disabled Serial number: 6CSBDE Back MCNING Website E-mail us 2010-2025 Omnixe@) Iff-Kft - All Rights Reserved Designed by Zeywan Yan (Chinal-California US) (Commisce USE) MCNING (Marcelli Contal Con	Version:	v1.2.2D		
IP address: 192.168.20.165 Gateway: 192.168.20.1 MaC address: 2525.255.0 MAC address: F4:CF:A2:6C:58:DE SSID: Omnikie_OT_2.4G(65%). Wifi status: CONNECTED MTP address: pool.ntp.org MTP address: coll.ntp.org MTP address: dtr 2025-06-23.13:12:24.008 Time zone: UTC 2025-06-23.13:12:24.008 Time zone: UTC 2025-06-23.13:12:24.008 Time zone: Auto Ganda), Tjuana Day light saving: Auto Ganda), Tjuana Day light saving: Auto Basbled Auto OFH Ime: Disabled Serial number: 6C58DE Back Domnikie Website E-mail us Comnikie Website E-mail us Comnikie Website E-mail us Dailaned by Zeyuan Yan (China/Cailfornia US) Comnikie.local C	Host name:	Omnixie.local		
Gateway:     192.168.20.1       Metmask:     255.255.255.0       MAC address:     F4.0CFA2.6C.58.DE       SSID:     Omnikie_loT_2.4G(56%)       Wifi status:     CONNECTED       MTP address:     pool.ntp.org       MTP address:     INTP Synchronized       Last sync time:     UTC 2025-06-23 13:12:24 008       Time zone:     (UTC-08:00) Pacific Time (US and Canada). Tjuana       Day light saving:     Auto       System uptime:     18minutes       Auto OFF time:     Disabled       Auto OFF time:     Disabled       Back     2010-2025 Omnike@1 野/st# - All Rights Reserved       Designed by Zevuan Yan (China Callornis US)     C       Image:     Omnikie.local	IP address:	192.168.20.165		
Netmask: 255.255.25.0   McC address: F4.CF.A2.6C.58.DE   SSD: COMMile_L0T_24.46(6%).   Wifi status: CONNECTED   MTP address: pool.ntp.org   MTP status: NTP Synchronizad   Last sync time: UTC 2025-06-23 13:12:24.008   Time zone: UTC-08:00) Pacific Time (US and Canada), Tjuana   Bay light saving: Auto   System uptime: Disabled   Auto OFF time: Disabled   Serial number: 6CS8DE    Partice States Sta	Gateway:	192.168.20.1		
MAC address: F4:CF:A2:6C:58:DE SSD: Omnixie_IoT_2:4G(56%) Wifi status: CONNECTED NTP status: cONNECTED TIME address: pool.ntp.org MTP status: UTC 2025-06-23 13:12:24:008 Time zone: UTC 2025-06-23 13:12:24:008 Auto OTF time: Disabled Auto OFF time: Disabled Serial number: 6C58DE Back Domnixie Website E-mail us Comnixie Website E-mail us Comnixie Website E-mail us Designed by Zeyuan Yan (China/California US)	Netmask:	255.255.255.0		
SSID: CONNECTED Wiff status: CONNECTED MTP status: pool.ntp.org MTP status: NTP Synchronized Last sync time: UTC 2025-06-23 13:12:24 008 Time zone: (UTC-08:00) Pacific Time (US and Canada), Tjuana Day light saving: Auto System uptime: 18minutes Auto ON time: Disabled Auto OFF time: Disabled Serial number: 6C58DE Back Omnixie Website E-mail us 0:010-0025 Omnixie@1∰## - All Rights Reserved Deslaned by Zevuan Yan (China California US) Comnixie.local	MAC address:	F4:CF:A2:6C:58:DE		
Wifi status:     CONNECTED       NTP address:     pool.ntp.org       MTP status:     NTP Synchronized       Last sync time:     UTC 2025-66-23 13:12:24.008       Time zone:     (UTC-08:00) Pacific Time (US and Canada), Tijuana       Day light saving:     Auto       Ystem uptime:     Disabled       Auto ON time:     Disabled       Serial number:     6C58DE       Back     02010-2025 Omnixce0   野先後 - All Rights Reserved       Designed by Zeywan Yan (China/California US)       Omnixie.local     C	SSID:	Omnixie_loT_2.4G	(56%)	
NTP address:       pool.ntp.org         MTP status:       NTP Synchronized         Last sync time:       UTC 2025-06-23 13;12:24.008         Time zone:       (UTC-08:00) Pacific Time (US and Canada), Tijuana         Day light saving:       Auto         System uptime:       18minutes         Auto ON time:       Disabled         Auto OFF time:       Disabled         Serial number:       6C58DE         Back       0mnixie Website       E-mail us         © 2010-2025 Omnixoe® [ \$\frac{15\true 14}{24} th - All Rights Reserved       Designed by Zeywan Yan (China)California US)         Image:       omnixie.local       \$\mathcal{L}\$	Wifi status:	CONNECTED		
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Auto OFF time:     Disabled       Serial number:     6C58DE       Back       Omnixie Website     E-mail us       © 2010-2025 Omnixie®) [#3/50 - All Rights Reserved       Designed by Zeywan Yan (China/California Us)       Image: Commission of the second	Auto ON time:	Disabled		
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Name	Description
Version	System version
Host name	Configurable
IP address	Configurable
Gateway	Configurable
Net mask	Configurable
MAC address	Unique
SSID	Configurable
WiFi status	Connect status
NTP address	Configurable
NTP status	Connect status
Last sync time	The latest time of sync with NTP
Time zone	Configurable
Day light saving	Configurable
System uptime	System uptime from power up
Auto ON time	Configurable
Auto OFF time	Configurable
Serial number	Unique

#### **NTP Setup**

#### NTP parameters setting.



### General Setup

Set the basic function parameters of the Omnixie.

21:13 <b>- 1</b>	Name	Option	Description
	Time Format	24H	
General Setup		12H	Default
	Date Format	YY-MM-DD	
Display setup Time Format: 12H O		YY-DD-MM	
Date Format: MM-DD-YY		DD-MM-YY	
Time Display Interval: 0		MM-DD-YY	Default
Date Display Interval: 0	Leading Zero	Enabled	Default
Time announcement	5	Disabled	
Language: English ↔ Interval: Disabled ↔ Minute	Time Display Interval	0 - 60 sec	Default 0 sec
Volume: 3	Date Display Interval	0 - 60 sec	Default 0 sec
Save Settings Back	Brightness	Auto	Default
	-	1(Darkest)-8(Brightest)	
	Language	中文普通话(Chinese mandarin)	
Omnixie Website E-mail us		English	Default
© 2010-2025 Omnokie®) 將光祥 - Al Rights Reserved Designed by Zeyuan Yan (China/California US)		日本語 (Japanese)	
		Deutsch	
	Interval	Disable	Default
므 omnixie.local Ĉ		1.2.3.5.10.15.20.30.60 Min	
с > ф <u> </u>	Volume	Mute	
		1(Min) – 8(Max)	Default 3

#### **Display Setup**

Set digits and LED backlight display effects.

21:13 -	.11 🗢 🚺	Name	Option	Description
		Digits Switching Effects	Normal	
Display S	Setup		Fade in fade out	
Disite estimation effects	1000		Corssfade	Default
Digits Switching Effects: Crossfade	0		Flip	
Colon Blinking Effects: Fade in fad	le out	Colon Blinking Effects	Fade in fade out	Default
			Blink	
Save Settings	Back		Always on	
			Always off	
Omeivie Webelte	E mailue	Switching Speed	0(Fastest) – 9(Slowest)	Default 6
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#### Setup Alarms

Setup alarms and automatic On/Off parameters.

21:13 -		Name	Option	Description
		Alarm 1/2/3/4 Time	Set Hour and Minute of Alarms	
Alarm Setup		Status	Disabled	Default
			Enabled (Only working days)	
Alarm setup Alarm1 Time: 08 💠 : 00	0		Enabled (All days)	
Status: Disabled	0			
Alarm2 Time: 08	0			
Status: Disabled	0	Alarm Music	Music 1 – Music 12	Default Music 1
Alarm3 Time: 08 💠 : 00	0	Alarm Volume	1(Min) – 8(Max)	Default 7
Status: Disabled	0			
Alarm4 Time: 08 🗢 : 00	0	Auto Power On/Off	Disabled	Default
Alarm sound	•	, , , , , , , , , , , , , , , , , .	Enabled (Only working days)	
Alarm Music: Music1	٥			
Alarm Volume: 7	0		Enabled (Everyday)	
Auto Power On/Off: Disabled	•	Auto ON Time	Hour and Minute of Auto On	
Auto ON Time: 00 💠 : 00	0	Auto OFF Time	Hour and Minute of Auto Off	
Auto OFF Time: 00 💠 : 00	0			
Save Settings Br	ack			
☐ omnixie.local	с П П	The working	g days means Monday – Friday	y.

■ Alarm Volume is different with **General Setup -> Volume**.

#### **Advanced Setup**

Set relevant parameter of Nixie tube and default settings.



Option	Description
Compatible Nixie tubes	Selected the correct Nixie tube type.
nterval of the cathode poisoning	g prevention. Default 10 Minutes
Running time of the cathode poisoning prevention. Default 20 Seconds	
Restore all settings including WiFi settings.	
Restore all settings except WiFi s	settings.
	ompatible Nixie tubes nterval of the cathode poisoning unning time of the cathode poi estore all settings including Wil estore all settings except WiFi s

■ Nixie tubes have an unwanted side effect called 'cathode poisoning' (CP) which causes metal molecules from the glowing cathodes (digits) and attach to non-glowing cathodes. This will cause deterioration and finally failure of the tube. To avoid this effect, non/seldom glowing cathodes need to be periodically switched on. Since cathode poisoning varies between different types of tubes, there is an adjustable cathode poisoning prevention setting.

■ The cathode poisoning prevention function default settings are to run every 10 minutes for 20 seconds duration. The switch on of the non-glowing digits will be achieved by a fast sequential scrolling through the digits (slot machine effect). This feature can be adjusted in duration and frequency of scrolling.

#### Upgrade Firmware

The Omnixie firmware can be upgraded via browser.



Upgrade steps:

- 1. Click the **Choose File** button to select the upgrade file, make sure the file is the Bin file used for upgrade.
- 2. Clock the **Upload** button to start the upgrade and wait patiently for complete.

#### 

- Do NOT access the Dashboard page during the upgrade process, do NOT power off, the Omnixie will automatically restart after the upgrade is completed.
- Wifi network parameters need to reconfigure after upgrading.



## Setup the Omnixie with IR Remote

# IR remote

# **Basic Operations**

#### Power On/Off

Toggle the Omnixie on/off by pressing **POWER** button on IR remote controller.



- Press **POWER** button of IR remote to power off.
- Press POWER button again to power on.

- With the Omnixie display off, the high voltage power to the tubes is completely removed for long tube life.
- During long periods of non-use, please disconnect the power.

#### Set Brightness

Brightness of tubes and backlight can be set to eight levels or automatically adjusted according to ambient light conditions.





Level 1 (the darkest) Level 2 Level 3 Level 8 (the brightest)

Automatic

- When brightness is set to automatic, the ambient light controls the brightness of tubes so that the clock will not disturb your sleep at night.
- The brightness of back light will be adjusted to the lowest brightness in automatic mode.

#### Talking Clock

Internal phonetic chip can speak the clock time.



- Press OK button or 0-9 button to trigger talking clock.
- Set the time interval of automatic talking clock by following MENU 12.

- Talking clock can be triggered any time.
- Built-in speech system in English, Chinese Mandarin, Japanese and German. Speech system setup at MENU 11.
- Volume of talking clock is controlled by the system volume.

#### Set Volume

Volume of talking clock or other sound effects can be set to eight levels.





Mute

Minimum volume

Maximum volume

• Press LEFT/RIGHT button to set volume.

#### ~ ~

- This volume setting is only for talking clock and sound effect during operating. The volume of alarms is independent.
- To set volume of alarms please consult MENU 10.

#### **Display Time**

• The Omnixie will display real time after power on.

E.g.: now time is PM 08:15:30, will display:



- Геосорија Геосориј Геосориј Геосорија Геосорија Геосорија Геосориј Геосорија Геосорија Геосорија Геосорија Геосориј Геосорија Геосорија Геосорија Геосориј Геосориј Геосориј Геосориј Геосориј Геосорија Геосорија Геосорија Геосорија Геосорија Геосорија Геосорија Геосорија Геосорија Геосориј Геосориј Геосорија Геосориј Геосори Геосори Геосориј Геосориј Геосориј Геосориј Геосориј Гео
- To set 12/24 time format, please use MENU 1.
- To set leading zero, please use MENU 5.
- To control digital switching effect setting, please use MENU 6.
- To control digital switching speed setting, please use MENU 7.
- To set colon display effect, please use MENU 8.

#### Set Time

Time can be set manually or synchronized from NTP server via WiFi. To set time manually:

• Press **SET** button enter time setting mode, 2 digits on the right start blinking.









20815830

• Press 0-9 button input HOUR, MINUTE or SECOND.





• Press **OK** button to save setting, press **CANCEL** button to abort.





- Time will display in 24 hour mode HH:MM:SS during setting mode.
- Any digits can be input during setting, but system will check if the time entry is valid when you save it. Invalid times will not be saved.

#### Display Date

Omnixie can display year, month, day and Chinese lunar date.

• Press **DATE** button once to display date; press twice to display Chinese lunar date. E.g.: Now date is Dec 1, 2016, Chinese lunar date is 2016-11-03.



- Press DATE button once, display date.



- Display date 2016-12-01, shown left.
- Press DATE button twice, display Chinese lunar date 2016-11-03, shown left.



- Date format set to YY-MM-DD, shown left.
- Date format set to YY-DD-MM, shown left.
- Date format set to DD-MM-YY, shown left.
- Date format set to MM-DD-YY, shown left.

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- After 3 seconds of display date, the Omnixie will return to time display mode.
- Date and time can be displayed alternately, please consult MENU 3 and MENU 4.
- Date format can show YY-MM-DD, YY-DD-MM, DD-MM-YY or MM-DD-YY, please consult MENU 2 to set the date format.

#### Set Date

Date can be set manually or synchronized by NTP server via WiFi. To set date manually:

• Press **DATE** button to show the date.



• Press **OK** button to save setting, press **CANCEL** to abort.



- In setting mode, the date format always displayed as YY-MM-DD.
- Any digits can be input during setting, but system will check if the date entry is valid when you save it. Invalid dates will not be saved.
- Chinese lunar date does not need to be set, the system will calculate it automatically.

#### **Display Alarms**

The Omnixie can support 4 alarms, each can be active in working days or every day separately.

• Press ALARM button to check alarm 1, press twice/three times/four times to check alarm 2/3/4.

E.g.: Alarm 1 set to 7:00 AM.







 Press FUNC button during display alarm to activate or disable alarm.



- Alarm disabled as shown left.
- Alarm activated in working days as shown left.
- Alarm activated every day as shown left.

- The Omnixie will return to time display mode from display alarm after 3 seconds.
- Alarm will sound for 60s.
- When the alarm sounds, you can press 0-9 button to snooze, the alarm will alarm again after 1-10 minutes (1-9 button for 1-9 minutes and 0 for 10 minutes), or press any other button to stop the alarm.

#### Set Alarms

 Press ALARM button to select alarm, digits on the left will show alarm number, 1 means alarm 1, 2 is alarm 2.



• Press SET button to enter alarm set mode, HOUR blinks during setting.



• Press LEFT/RIGHT button to select set position.





• Press 0-9 button to input HOUR or MINUTE.





• Press **OK** button to save setting, press **CANCEL** to abort.



<del>f</del>

- Any digits can be input during setting, but system will check if the alarm time entry is valid when you save it. Invalid alarm times will not be saved.
- Consult DISPLAY ALARMS for information on how to enable/disable alarm.

#### Set Auto On/Off time

Press **ALARM** button 5 times to display AUTO ON time, press 6 times to display AUTO OFF time. Colon blinking means active on working days, colon always on means active every day, colon does not light up means disabled.

E.g.: AUTO ON time set to 8:00 AM, AUTO OFF time set to 10:00 PM.







**~~** 

- Any digits can be input during setting, but system will check if the time entry is valid when you save it. Invalid times will not be saved.
- The Omnixie default will check auto on/off mode and time every minute.

#### System Menu

There are 17 different items in the menu for setting system parameter.



• Press **FUNC** button to enter menu.



- Press **LEFT/RIGHT** to select menu items.
- Press **SET** button to set current menu item.

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The Omnixie will return to time display mode after 3 minutes if there are no menu operations.

## Menu Setup

There are 17 items in the menu to set parameters.





- Press **SET** button to enter setting mode.
- Press LEFT/RIGHT button to change setting position.
- Press **OK** to save setting.
- Press **CANCEL** to abort.

Menu 1 00800824	Set Time Format	
Display	Parameter	Remarks
$\widehat{0}\widehat{1}\widehat{1}\widehat{1}\widehat{1}\widehat{2}\widehat{4}$	24 hour	Default
	12 hour	

## Menu 2 02101 Set Date Format

Display	Parameter	Remarks
	YY-MM-DD	
	YY-DD-MM	
$\hat{0}\hat{2}\hat{1}\hat{1}\hat{1}\hat{1}\hat{1}\hat{3}$	DD-MM-YY	
	MM-DD-YY	Default

Menu 3 🔞 🕅 🖗 Set Interval of Time Display

Display	Parameter	Remarks
$\hat{0}\hat{3}\hat{\hat{a}}\hat{\hat{a}}\hat{\hat{a}}\hat{\hat{a}}\hat{\hat{a}}\hat{\hat{a}}\hat{\hat{a}}\hat{\hat{a}}\hat{\hat{a}}\hat{\hat{a}}\hat{\hat{a}}\hat{\hat{a}}\hat{\hat{a}}\hat{\hat{a}}\hat{\hat{a}}\hat{\hat{a}}\hat{\hat{a}}\hat{\hat{a}}\hat{\hat{a}}\hat{\hat{a}}\hat{\hat{a}}\hat{\hat{a}}\hat{\hat{a}}\hat{\hat{a}}\hat{\hat{a}}\hat{\hat{a}}\hat{\hat{a}}\hat{\hat{a}}\hat{\hat{a}}\hat{\hat{a}}\hat{\hat{a}}\hat{\hat{a}}\hat{\hat{a}}\hat{\hat{a}}\hat{\hat{a}}\hat{\hat{a}}\hat{\hat{a}}\hat{\hat{a}}\hat{\hat{a}}\hat{\hat{a}}\hat{\hat{a}}\hat{\hat{a}}\hat{\hat{a}}\hat{\hat{a}}\hat{\hat{a}}\hat{\hat{a}}\hat{\hat{a}}\hat{\hat{a}}\hat{\hat{a}}\hat{\hat{a}}\hat{\hat{a}}\hat{\hat{a}}\hat{\hat{a}}\hat{\hat{a}}\hat{\hat{a}}\hat{\hat{a}}\hat{\hat{a}}\hat{\hat{a}}\hat{\hat{a}}\hat{\hat{a}}\hat{\hat{a}}\hat{\hat{a}}\hat{\hat{a}}\hat{\hat{a}}\hat{\hat{a}}\hat{\hat{a}}\hat{\hat{a}}\hat{\hat{a}}\hat{\hat{a}}\hat{\hat{a}}\hat{\hat{a}}\hat{\hat{a}}\hat{\hat{a}}\hat{\hat{a}}\hat{\hat{a}}\hat{\hat{a}}\hat{\hat{a}}\hat{\hat{a}}\hat{\hat{a}}\hat{\hat{a}}\hat{\hat{a}}\hat{\hat{a}}\hat{\hat{a}}\hat{\hat{a}}\hat{\hat{a}}\hat{\hat{a}}\hat{\hat{a}}\hat{\hat{a}}\hat{\hat{a}}\hat{\hat{a}}\hat{\hat{a}}\hat{\hat{a}}\hat{\hat{a}}\hat{\hat{a}}\hat{\hat{a}}\hat{\hat{a}}\hat{\hat{a}}\hat{\hat{a}}\hat{\hat{a}}\hat{\hat{a}}\hat{\hat{a}}\hat{\hat{a}}\hat{\hat{a}}\hat{\hat{a}}\hat{\hat{a}}\hat{\hat{a}}\hat{\hat{a}}\hat{\hat{a}}\hat{\hat{a}}\hat{\hat{a}}\hat{\hat{a}}\hat{\hat{a}}\hat{\hat{a}}\hat{\hat{a}}\hat{\hat{a}}\hat{\hat{a}}\hat{\hat{a}}\hat{\hat{a}}\hat{\hat{a}}\hat{\hat{a}}\hat{\hat{a}}\hat{\hat{a}}\hat{\hat{a}}\hat{\hat{a}}\hat{\hat{a}}\hat{\hat{a}}\hat{\hat{a}}\hat{\hat{a}}\hat{\hat{a}}\hat{\hat{a}}\hat{\hat{a}}\hat{\hat{a}}\hat{\hat{a}}\hat{\hat{a}}\hat{\hat{a}}\hat{\hat{a}}\hat{\hat{a}}\hat{\hat{a}}\hat{\hat{a}}\hat{\hat{a}}\hat{\hat{a}}\hat{\hat{a}}\hat{\hat{a}}\hat{\hat{a}}\hat{\hat{a}}\hat{\hat{a}}\hat{\hat{a}}\hat{\hat{a}}\hat{\hat{a}}\hat{\hat{a}}\hat{\hat{a}}\hat{\hat{a}}\hat{\hat{a}}\hat{\hat{a}}\hat{\hat{a}}\hat{\hat{a}}\hat{\hat{a}}\hat{\hat{a}}\hat{\hat{a}}\hat{\hat{a}}\hat{\hat{a}}\hat{\hat{a}}\hat{\hat{a}}\hat{\hat{a}}\hat{\hat{a}}\hat{\hat{a}}\hat{\hat{a}}\hat{\hat{a}}\hat{\hat{a}}\hat{\hat{a}}\hat{\hat{a}}\hat{\hat{a}}\hat{\hat{a}}\hat{\hat{a}}\hat{\hat{a}}\hat{\hat{a}}\hat{\hat{a}}\hat{\hat{a}}\hat{\hat{a}}\hat{\hat{a}}\hat{\hat{a}}\hat{\hat{a}}\hat{\hat{a}}\hat{\hat{a}}\hat{\hat{a}}\hat{\hat{a}}\hat{\hat{a}}\hat{\hat{a}}\hat{\hat{a}}\hat{\hat{a}}\hat{\hat{a}}\hat{\hat{a}}\hat{\hat{a}}\hat{\hat{a}}\hat{\hat{a}}\hat{\hat{a}}\hat{\hat{a}}\hat{\hat{a}}\hat{\hat{a}}\hat{\hat{a}}\hat{\hat{a}}\hat{\hat{a}}\hat{\hat{a}}\hat{\hat{a}}\hat{\hat{a}}\hat{\hat{a}}\hat{\hat{a}}\hat{\hat{a}}\hat{\hat{a}}\hat{\hat{a}}\hat{\hat{a}}\hat{\hat{a}}\hat{\hat{a}}\hat{\hat{a}}\hat{\hat{a}}\hat{\hat{a}}\hat{\hat{a}}\hat{\hat{a}}\hat{\hat{a}}\hat{\hat{a}}\hat{\hat{a}}\hat{\hat{a}}\hat{\hat{a}}\hat{\hat{\hat{a}}\hat{\hat{a}}\hat{\hat{a}}\hat{\hat{a}}\hat{\hat{a}}\hat{\hat{a}}\hat{\hat{a}}\hat{\hat{a}}\hat{\hat{a}}\hat{\hat{a}}\hat{\hat{a}}\hat{\hat{a}}\hat{\hat{a}}\hat{\hat{a}}\hat{\hat{a}}\hat{\hat{a}}\hat{\hat{a}}\hat{\hat{a}}\hat{\hat{a}}\hat{\hat{a}}\hat{\hat{a}}\hat{\hat{a}}\hat{\hat{a}}\hat{\hat{a}}\hat{\hat{a}}\hat{\hat{a}}\hat{\hat{a}}\hat{\hat{a}}\hat{\hat{a}}\hat{\hat{a}}\hat{\hat{a}}\hat{\hat{a}}\hat{\hat{a}}\hat{\hat{a}}\hat{\hat{a}}\hat{\hat{a}}\hat{\hat{a}}\hat{\hat{a}}\hat{\hat{a}}\hat{\hat{a}}\hat{\hat{a}}\hat{\hat{a}}\hat{\hat{a}}\hat{\hat{a}}\hat{\hat{a}}\hat{\hat{a}}\hat{\hat{a}}\hat{\hat{a}}\hat{\hat{a}}\hat{\hat{a}}\hat{\hat{a}}\hat{\hat{a}}\hat{\hat{a}}\hat{\hat{a}}\hat{\hat{a}}\hat{\hat{\hat{a}}\hat{\hat{a}}\hat{\hat{\hat{a}}\hat{\hat{\hat{a}}\hat{\hat{a}}\hat{\hat{\hat{a}}\hat{\hat{a}}\hat{\hat{a}}\hat{\hat{a}}\hat{\hat{a}}\hat{\hat{a}}\hat$	0 second	Default
	0 - 60 seconds	
$\hat{O}$	60 seconds	

### Menu 4 041 100 Set Interval of Date Display

Display	Parameter	Remarks
	0 second	Default
	0 - 60 seconds	
	60 seconds	

## Menu 5 🗐 🗐 Set Leading Zero

Display	Para	ameter	Remarks
	On	E.g.:	Default
$\hat{0}$	Off	E.g.:	

### Menu 6 000 Set Switching Effects of the Digits

Display	Parameter	Remarks
	Normal	
	Fade in-out	
$\hat{O}$	Cross-fading	Default
	Slot machine	

### Menu 7 020 Set Switching Speed of the Digits

Display	Parameter	Remarks
	01 Fastest	
	01-10 10 level in total	Default 07
	10 Slowest	

### Menu 8 🕯 🖗 🗍 👘 Set Colons Animation Effects

Display	Parameter	Remarks
	Fade in-out	Default
$\hat{0}\hat{8}\hat{1}\hat{1}\hat{2}$	Blinking	
$\widehat{0}\widehat{8}\widehat{1}\widehat{1}\widehat{1}\widehat{1}\widehat{1}\widehat{1}\widehat{1}$	Always on	
$\widehat{0}\widehat{8}\widehat{1}\widehat{1}\widehat{1}\widehat{1}\widehat{1}\widehat{3}$	Always off	

#### Menu 9 🔞 🕅 Set Alarm Sound Tone

Display	Parameter	Remarks
	No.01 to No.12	Default No.01

Menu 10 (10)(10)	Set Alarm Volume	
Display	Parameter	Remarks
	Level 1(Min) to 8 (Max)	Default 7

## Menu 11 🛈

Display	Parameter	Remarks
	Chinese Mandarin	
	English	Default
$\widehat{\left( \left( \right) \right)} \widehat{\left( \right)} \left($	Japanese	
	German	

Menu 12 (12)(1))(10) Set Interval of Talking Clock

Display	Parameter	Remarks
	Talking clock disabled	Default
	0,1,2,3,5,10,15,20,30,60 Minutes	
$\hat{1}\hat{2}\hat{1}\hat{1}\hat{6}\hat{0}$	60 Minutes	

Menu 13 (13) Set Interval of CP prevention

Display	Parameter	Remarks
	CP disabled	Not recommended
	0,1,2,3,5,10,15,20,30,60 Minutes	
$\widehat{  3 } \widehat{  } $	Max 60 Minutes	Default 10 Mins

Menu 14 141020 Set Running Time of CP Prevention

Display	Parameter	Remarks
	05-30 Seconds	Default 20 Seconds

Menu 15 (15)(1))	Display IP Address		
Display	Parameter	Remarks	
1581182	IP address		

Menu 16 (16)(1)(63)	Display Firmware Version	
Display	Parameter	Remarks
$\hat{\mathbf{D}}$	v1.5.3	

# Special Remarks

- Nixie tubes have an unwanted side effect called 'cathode poisoning' (CP) which causes metal molecules from the glowing cathodes (digits) and attach to nonglowing cathodes. This will cause deterioration and finally failure of the tube. To avoid this effect, non/seldom glowing cathodes need to be periodically switched on. Since cathode poisoning varies between different types of tubes, there is an adjustable cathode poisoning prevention setting.
- The clock base is made from aluminium and is heavy. Please take care not to drag the unit by the cable to avoid damage to the power socket.

#### A shared creation by

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