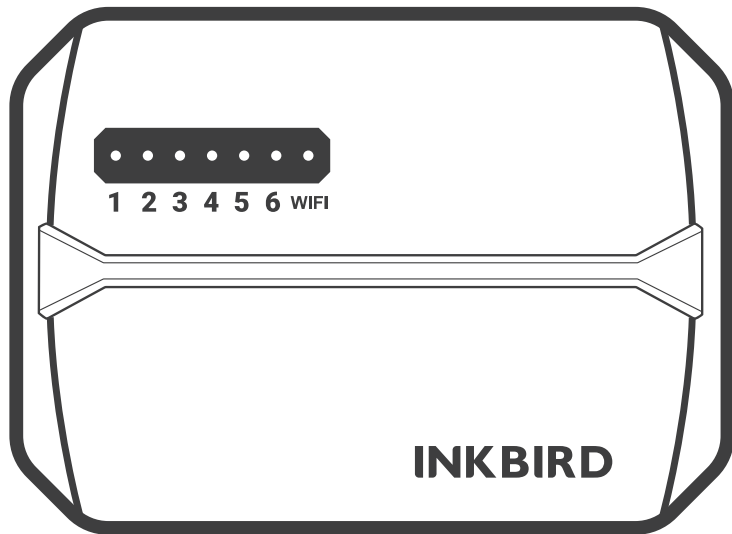


# INKBIRD

USER MANUAL



**IIC-600-WIFI**

**SMART SPRINKLER CONTROLLER**

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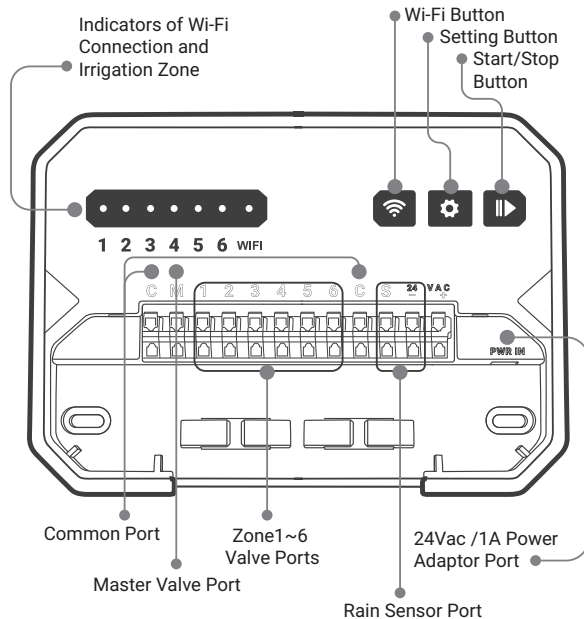
## 01 OVERVIEW

INKBIRD IIC-600-WIFI is a smart sprinkler controller that can upgrade our water pipes into a smart automation system, saving us plenty of time we used to spend on watering. Also, it has Wi-Fi capability that enables us to control and monitor irrigation from our smartphones. It can control up to 6 zones and automatically start and stop irrigating at specific times we set. No more dead plants because we forgot to water them, and no more soggy lawns because we forgot to turn off the water. Featuring multiple user-friendly functions, IIC-600-WIFI is an ideal assistant to help us create a wonderful garden.

## 02 FEATURES & SPECIFICATIONS

- Product Name: Smart Sprinkler Controller
- For both indoors and outdoors
- Model: IIC-600-WIFI
- Control by phone APP via Wi-Fi connections
- Power: 24VAC 1A
- Control up to 6 zones of watering
- Station-based programming enables separate irrigation adjustments for different zones to suit the specific water needs of each zone.
- 4 cyclic options (custom days/intervals/odd days/even days) to customize irrigation schedules, enhancing flexibility on controlling.
- 6 start times to run the same program multiple times in a day.
- Manual irrigation mode to immediately water an individual zone, several zones, or all zones at a time.
- Built-in non-volatile memory to indefinitely save the settings even after a long time of power off.
- 2 Years of Product Warranty

## 03 PRODUCT DIAGRAM



## 04 OPERATION INSTRUCTIONS

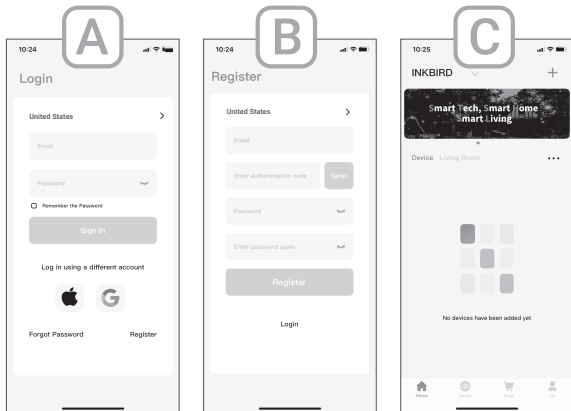
### INKBIRD APP SETTINGS



#### ● Download the App

Search the keyword "INKBIRD" in App Store or Google Play, or scan the QR code on the left to download and install the APP.

#### ● Pair Your Phone



A

Open the app and enter the login interface. You can log in by your Apple ID or Google ID.

B

You can also click register and use your email address as prompted to register.

C

Registration and login are completed. Congratulation that you created your family successfully.

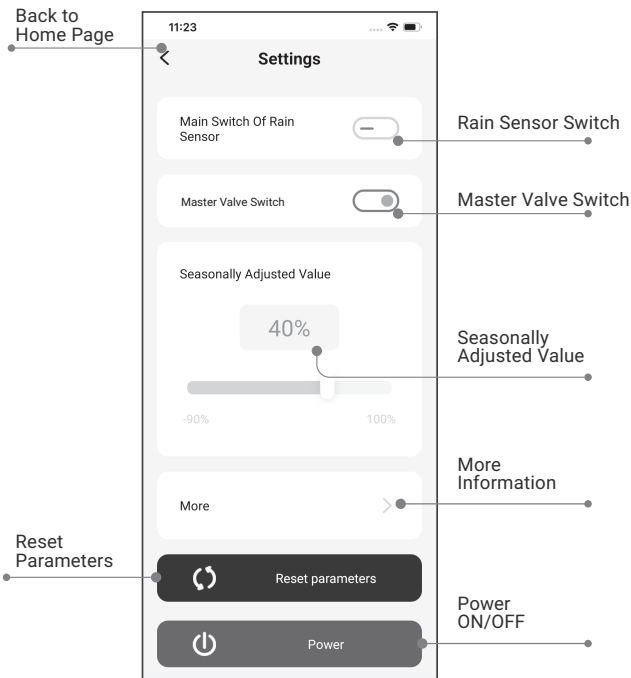
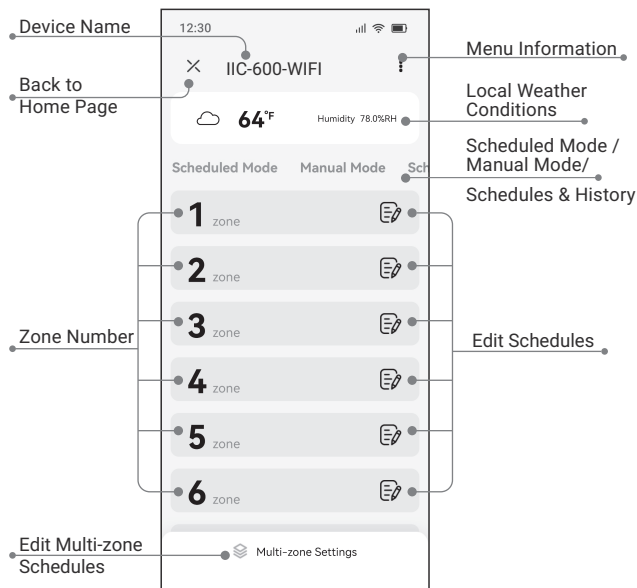
#### ● Add Products

**Note: This device only supports 2.4GHz Wi-Fi networks.**

Plug the device into a power socket, and the LED light will fully light up for one second. After waiting for 5 seconds, the **WIFI** indicator light will flash, indicating that the device has entered the WiFi connection state. If the **WIFI** indicator light does not flash, press and hold the button for two seconds to reset the WiFi connection. Open the INKBIRD app and click "+" on the top right corner to add a device. Then, follow the app instructions to complete the Wi-Fi connection. Note that this controller only supports 2.4GHz Wi-Fi networks. After the connection is successful, the **WIFI** indicator on the controller will always be on.

## APP OPERATION

### ● Main Interface



● Scheduled Watering Interface

Information of the upcoming irrigation zone

Information of current irrigating zone

Finished Time

Seasonally Adjusted Value

Remaining Time

Scheduled Time

Watering Period

Zone Number

Cancel irrigation of the current zone and activate irrigation of the next zone in the sequence.

● Setting Interface of Scheduled Watering

Cancel the setting and restore the last setting parameters

Zone description, such as "Front yard garden"

Watering Period

Scheduled irrigation time

Start Time

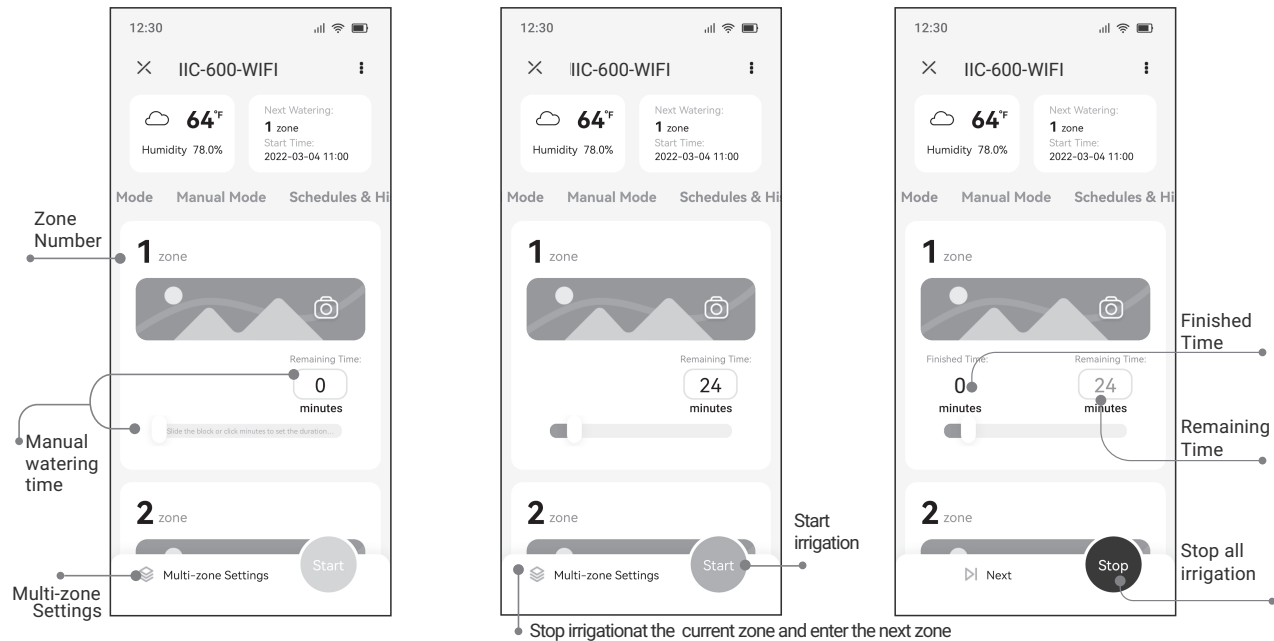
Shut down the zone

Confirm the settings

Choose to obey or ignore the rain sensor on this zone

Shut down the zone and restore default data

## ● Setting Interface of Manual Watering



## DEVICE OPERATION

### ● Manual Mode

Press the  button to enter the setting mode, and the indicator lights of each channel are on. When setting channel one, the indicator of channel one flashes. Press the  button to cancel the manual irrigation of that channel and enter the setting of the next channel. Press the  button to confirm the setting and advance to set the next channel. Press and hold the  button for two seconds (or no operation for one minute) to exit the setting and return to the automatic mode.

Press the  button to exit the setting and start irrigation (within 30 minutes). During irrigation, the corresponding channel indicator remains on, and you can press the  button to cancel the irrigation on this zone and go forward to the next zone in sequence. Press and hold the  button for two seconds to stop all irrigation.

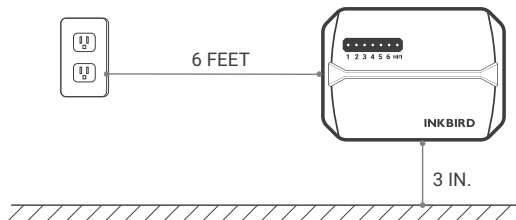
### ● Automatic Mode

During irrigation, short press the  button to immediately deactivate the active zone and move forward to the next zone in the irrigation sequence. Press and hold the  for 2 seconds to stop all irrigation.

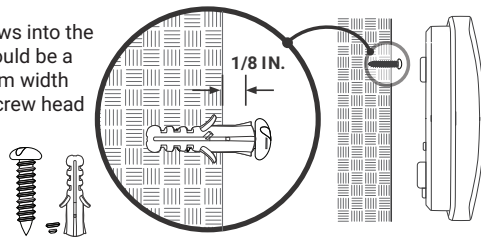
## 05 INSTALLTION

### ● Controller Installation

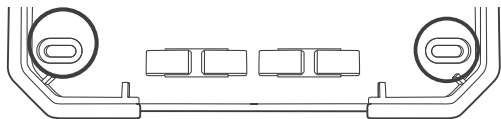
Choose a proper place for installation where we can connect the device to an external power source. Please make sure the distance between the device and the power socket is under 6 feet (1.8 meters). Meanwhile, you should leave proper heights and space to install conduits of the device.



Insert the screws into the wall. There should be a gap about 3 mm width between the screw head and the wall.



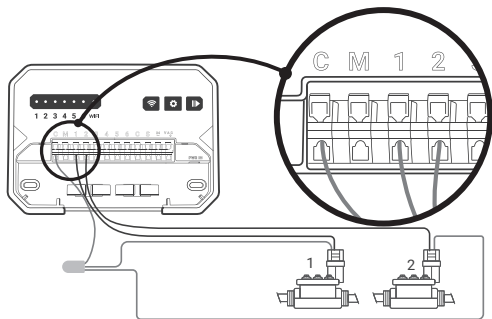
You can tighten up both holes on the bottom using screws just in case, though it would be uneasy to disassemble them afterward.



## ● Wiring connection

### a) Connect zone valves

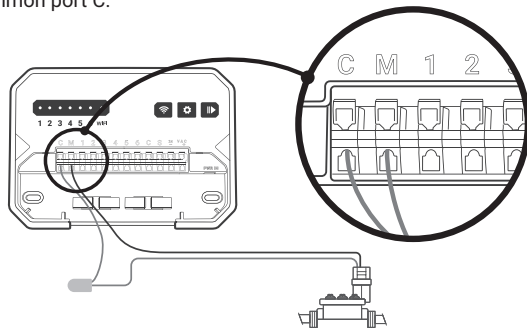
- Connect the power supply of each zone valve to the terminal of the controller, corresponding to the zone number.
- Connect the common line of each valve to the common port C.



### b) Connect master valve (optional)

Connect an optional master valve or water pump to the controller.

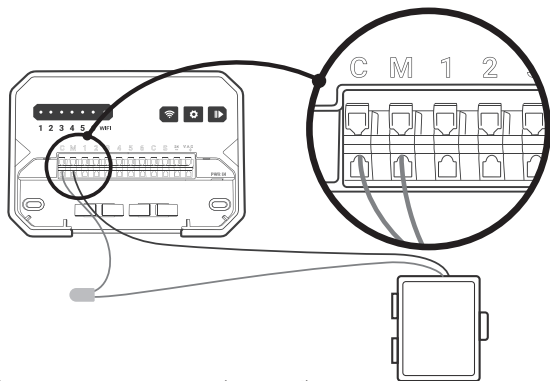
- Connect the power cable of the master valve or water pump to port M on the controller terminal.
- Connect the common line of the master valve or water pump to the common port C.



### c) Connect Pump Start Relay (optional)

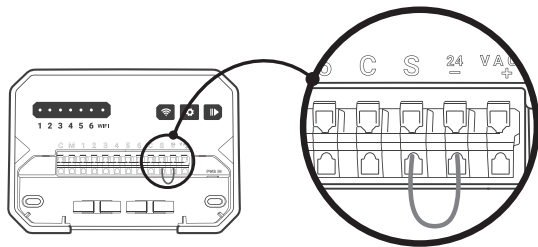
- Connect an optional pump start relay to the IIC-600-WIFI controller. Water pumps are used to extract water from wells or other water sources. If you want to start up the water pump of the controller, you must install a pump start relay. The connection method of the pump start relay and the controller is the same as that of the main valve, but the connected water source is different.

**Note:** The IIC-600-WIFI controller does not provide the main power supply for the water pump.

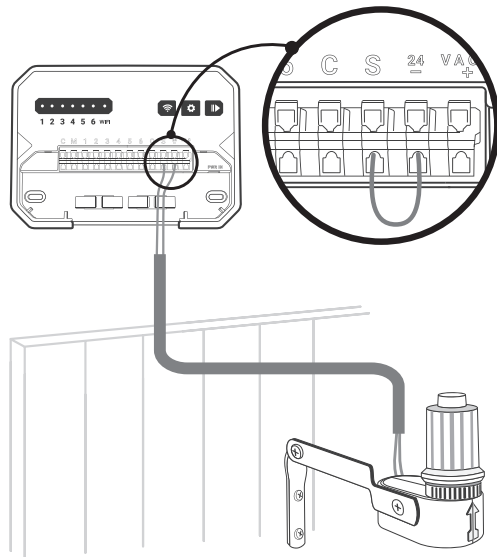


#### d) Connect rain sensors (optional)

- Remove the jumpers for port 24 VAC- and port S on the terminal.



- Separately connect the line of the rain sensor to port 24 VAC- and port S.

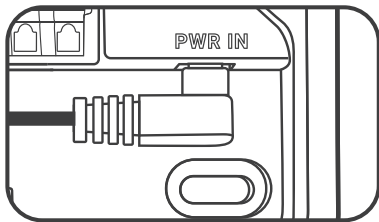


Note:

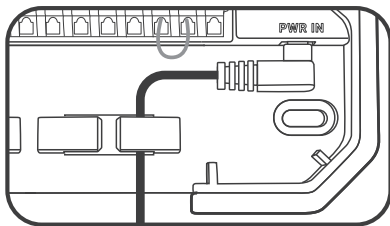
- The 24 VAC- port is a common port.
- You must connect the S port with the 24 VAC- port if there is no rain sensor connected.

## ● Connect Power Supply

- This controller adopts an adapter following local safety regulations' certification, which is convenient and safe.
- Insert the power output end into the PWR IN jack of the device.



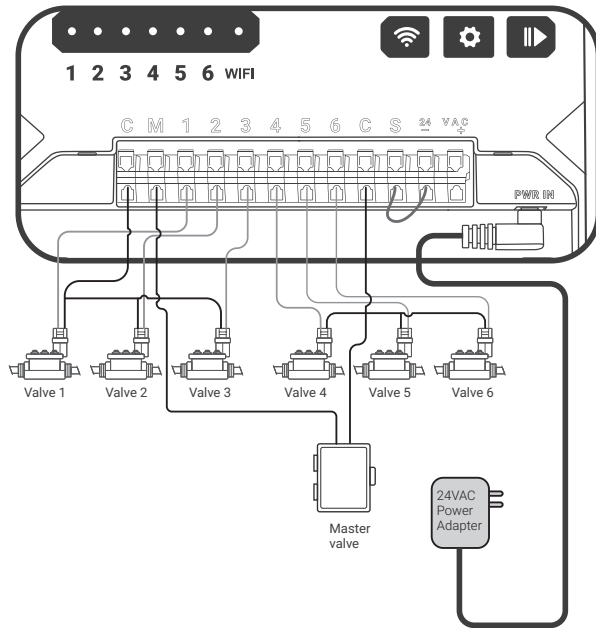
- Put power lines into the line slots of the device.



### Note:

- PLEASE DO NOT turn on the power before confirming all lines are well connected.
- Please cut off the power of the line if it's damaged. In that case, we suggest changing a replacement line to avoid danger.

## ● Wiring Diagram



## 06 TROUBLESHOOTING GUIDE

What can you do if the programmed system or the manual mode is not working? Here are some possible reasons and relative solutions for reference. We hope they are helpful. For any further questions, please feel free to contact INKBIRD.

### Q: The water supply is not available?

A: Please confirm if the water main is connected and if all water pipes are open and work normally.

### Q: Lines are loose or incorrectly connected?

A: Please confirm if the ground line and the main valve, or the triac, are steadily connected to the controller, and firmly linked on the scene.

### Q: Electrical wires on the scene are corroded or damaged?

A: Please install a replacement wire if the original one is damaged. You can install a waterproof connector if needed.

### Q: The rain sensor in connection being activated?

A: Please dry out the rain sensor or disconnect it to the terminal of the controller, and then connect 2 SENS ports using the jumper.

### Q: The jumper on the terminal that linked S and 24- ports is missing or damaged?

A: Please replace it with any conductive wire.

## 07 PRODUCT WARRANTY

This item carries a 2-year warranty against defects in either components or workmanship. During this period, products that prove to be defective will, at the discretion of INKBIRD, be either repaired or replaced without charge.

## 08 FCC REQUIREMENT

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment. This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

- (1) this device may not cause harmful interference, and
- (2) this device must accept any interference received, including interference that may cause undesired operation.

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy, and if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
  - Increase the separation between the equipment and receiver.
  - Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
  - Consult the dealer or an experienced radio/TV technician for help.
- This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with a minimum distance of 20cm between the radiator & your body. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter. 24

## 09 IRRIGATION SCHEDULE TABLE

Before programming the controller, we suggest using this irrigation schedule table to arrange watering work at each zone and keep it as a reference.

- Name each zone one by one on the second column, such as the lawn on the front yard, left side of the courtyard.
- Determine the irrigation duration time of each zone on the third column.
- Customize the watering start time of each zone on the fourth column (total 6 start times programmable for each zone).
- Select the cyclic days of irrigation on the fifth column by marking on the checkbox. If you choose intervals, please enter the number from 1 to 9.

| ZONE | DEFINITION | WATERING DURATION TIME | WATERING START TIMES |                 | WATERING CYCLIC DAYS                                                              |
|------|------------|------------------------|----------------------|-----------------|-----------------------------------------------------------------------------------|
| 1    |            | min                    | 1 :__ :__ am/pm      | 2 :__ :__ am/pm | <input type="checkbox"/> Days of the week:<br>Mon. Tue. Wed. Thur. Fri. Sat. Sun. |
|      |            |                        | 3 :__ :__ am/pm      | 4 :__ :__ am/pm | <input type="checkbox"/> odd days   <input type="checkbox"/> even days            |
|      |            |                        | 5 :__ :__ am/pm      | 6 :__ :__ am/pm | <input type="checkbox"/> every __ days                                            |
| 2    |            | min                    | 1 :__ :__ am/pm      | 2 :__ :__ am/pm | <input type="checkbox"/> Days of the week:<br>Mon. Tue. Wed. Thur. Fri. Sat. Sun. |
|      |            |                        | 3 :__ :__ am/pm      | 4 :__ :__ am/pm | <input type="checkbox"/> odd days   <input type="checkbox"/> even days            |
|      |            |                        | 5 :__ :__ am/pm      | 6 :__ :__ am/pm | <input type="checkbox"/> every __ days                                            |

| ZONE | DEFINITION | WATERING DURATION TIME | WATERING START TIMES |                 | WATERING CYCLIC DAYS                                                              |
|------|------------|------------------------|----------------------|-----------------|-----------------------------------------------------------------------------------|
| 3    |            | min                    | 1 :__ :__ am/pm      | 2 :__ :__ am/pm | <input type="checkbox"/> Days of the week:<br>Mon. Tue. Wed. Thur. Fri. Sat. Sun. |
|      |            |                        | 3 :__ :__ am/pm      | 4 :__ :__ am/pm | <input type="checkbox"/> odd days   <input type="checkbox"/> even days            |
|      |            |                        | 5 :__ :__ am/pm      | 6 :__ :__ am/pm | <input type="checkbox"/> every __ days                                            |
| 4    |            | min                    | 1 :__ :__ am/pm      | 2 :__ :__ am/pm | <input type="checkbox"/> Days of the week:<br>Mon. Tue. Wed. Thur. Fri. Sat. Sun. |
|      |            |                        | 3 :__ :__ am/pm      | 4 :__ :__ am/pm | <input type="checkbox"/> odd days   <input type="checkbox"/> even days            |
|      |            |                        | 5 :__ :__ am/pm      | 6 :__ :__ am/pm | <input type="checkbox"/> every __ days                                            |
| 5    |            | min                    | 1 :__ :__ am/pm      | 2 :__ :__ am/pm | <input type="checkbox"/> Days of the week:<br>Mon. Tue. Wed. Thur. Fri. Sat. Sun. |
|      |            |                        | 3 :__ :__ am/pm      | 4 :__ :__ am/pm | <input type="checkbox"/> odd days   <input type="checkbox"/> even days            |
|      |            |                        | 5 :__ :__ am/pm      | 6 :__ :__ am/pm | <input type="checkbox"/> every __ days                                            |
| 6    |            | min                    | 1 :__ :__ am/pm      | 2 :__ :__ am/pm | <input type="checkbox"/> Days of the week:<br>Mon. Tue. Wed. Thur. Fri. Sat. Sun. |
|      |            |                        | 3 :__ :__ am/pm      | 4 :__ :__ am/pm | <input type="checkbox"/> odd days   <input type="checkbox"/> even days            |
|      |            |                        | 5 :__ :__ am/pm      | 6 :__ :__ am/pm | <input type="checkbox"/> every __ days                                            |

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**V1.0**

MADE IN CHINA  
DESIGNED BY INKBIRD