
Foldio360 HW manual

Application Information

Version 1.0
May. 2016

Orangemonkie Foldio360 – Smart turntable Reference Design Specification**Copyright @ 2016 Orangemonkie, Inc. All Rights Reserved.**

Any part of this document may not be distributed, communicated, reproduced or transmitted in any form or by any means, electronic or mechanical or otherwise, for any purpose, without the permission of Orangemonkie Inc.

This document can be subjected to revision without further notice.

Contact Address

Orangemonkie Korea, Inc (Korea)
607Ho, Byucksan Digital Valley 5-cha,
60-73 Gasan-dong, Geumcheon-gu
08513, Seoul, South Korea
<http://www.orangemonkie.com>
email:web@orangemonkie.com
Tel : +82-2-855-4211
Fax :+82-2-855-4212

Orangemonkie, Inc (USA)
6453 Reflection Dr, Unit103
San Diego, CA 92124, USA
<http://www.orangemonkie.com>
email:web@orangemonkie.com
Tel : +1-949-463-6066

Contents

1. Revision History
2. Overview
3. Device feature
4. Technical Specification
5. Adapter Specification
6. Basic structure
7. Operation

1. Revision History

The revision history for this document is shown in Table.

Version	Date	Description
V1.0	May.2016	Initial Release

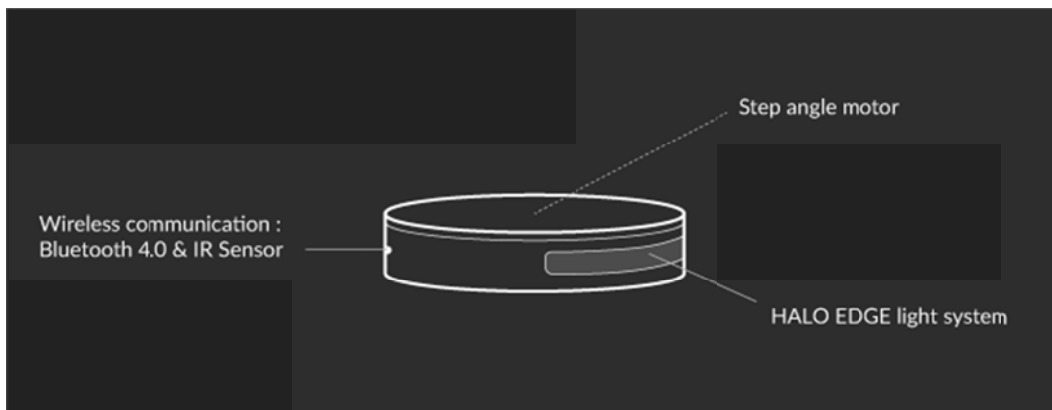
2. Overview

The Foldio360 is a smart turn table that automatically create 360 view image using smart phone.

With the simple click of Foldio360 Smartphone Application, this device is wirelessly controlled by smart phone via BLE technology.

Halo Edge lightening system is the Trade Mark of Orangemokie, Inc that improve photo image.

The Foldio360 supports variety of Cameras with IRDA technology.



3. Device Features



Figure1) Front view



Figure 2) Side view



Figure 3) Rear view

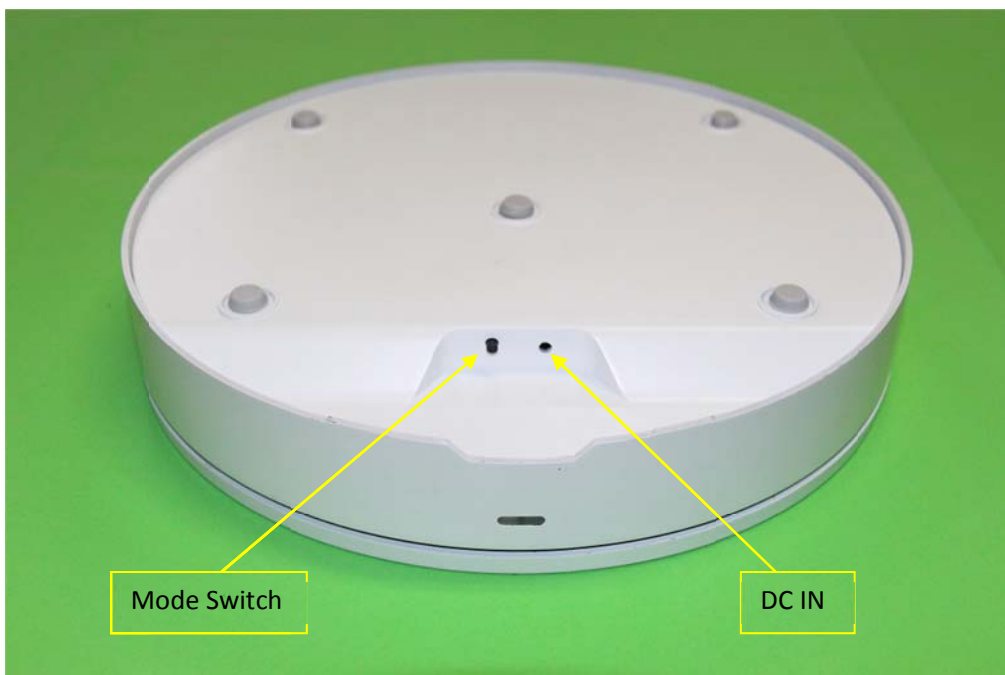


Figure 4) Bottom view



Figure 5) 12V-1.2A AC/DC Adapter

4. Technical Specifications

Parameters	Descriptions	
Rating Input	DC 12V - 1.2A	
Operating Voltage	DC 12.0V~12.3V	
CPU	32-bit ARM _ Cortex M0 CPU	
Memory	128 embedded Flash, 32kB RAM	
Oscillator	32MHz XO	
Radio Frequency	Worldwide ISM Band(2.4GHz ~ 2.4835GHz)	
Radio output power	0 dBm	
Modulation	GFSK Modulation	
Max Sensitivity	-93dBm	
Current consumption	Sleep mode	< 2mA
	Standby mode	< 8mA
	Operation mode (Nominal)	< 440mA
	Operation mode (30usec pulse)	< 620mA
IRDA Range	Up to 1.2 meter	
Max load	Up to 5Kg	
Operating Temperature	0°C ~ + 40°C (Typ 25°C)	
Storage Temperature	-20°C ~ + 65°C	
Size	253.6mm(D) x 43mm(H)	
Weight	Approximately 521g (without Adapter, Adapter = 97g)	

5. AC/DC Adapter Specification

Parameters	Descriptions
Input voltage range	90Vac – 264Vac
Rated voltage range	100Vac – 240Vac
Input frequency range	47Hz – 63Hz
Rated input frequency	50Hz/60Hz
Input current	0.35Amax. at full load
Inrush current(cold start)	30A typ peak, 220Vac Input
Output voltage	12Vdc
Output Voltage Limit	11.4Vdc – 12.6Vdc
Output Ripple & Noise	<120mV
Output Current	1200mA
DC output overshoot	5% (Turn on), 5% (Turn off)
Combined Load/Line Regulation)	3%(Line Regulation), 5%(Load Regulation) @ 1.2A Rated. Load
Operating Temperature	0°C ~ + 40°C, Full load, Normal operation
Storage Temperature	-40°C ~ + 85°C

6. Basic structure



Device will be connected to smart phone and it controls the Foldio360 device via BLE Technology. Also the Foldio360 have a capability of IR transmission to support DSLR.

7. Operation

7.1 Turn ON/OFF Device

- 1) Turn ON : Plug in the AC/DC Adapter
- 2) T



the AC/DC Adapter

7-2 Place the object on the device



7-3 Bluetooth connection

- 1) Turn on the Bluetooth on your smart phone.
- 2) Open the "Foldio360 Application"
- 3) Select a device "Foldio360"

7-4 Setting the device via "Foldio360 Application" and press start button

7.5 Manual display mode

- 1) Press MODE button for 2 seconds

FCC REQUIREMENTS PART 15

Caution: Any changes or modifications in construction of this device which are not expressly approved by the responsible for compliance could void the user's authority to operate the equipment.

NOTE: 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 interface, and
2. This device must accept any interference received, including interference that may cause undesired operation.

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 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 radio or television off and on, the user is encouraged to try to

correct interference by one or more of the following measures.

1. Reorient or relocate the receiving antenna.
2. Increase the separation between the equipment and receiver.
3. Connect the equipment into an outlet on another circuit.
4. Consult the dealer or an experienced radio/TV technician for help.