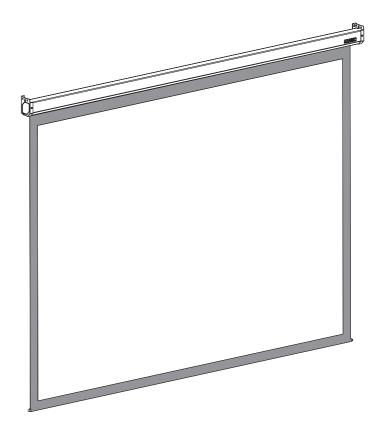
# Grandview®

Instruction Manual of Mini DIAS/Crystal Motorized Screen



## Grandview®

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Model: DI-Mxxx / DI-MRxxx (model C)/CY-Mxxx/CY-MRxxx

Thank you for purchasing a Grandview projection screen.

Before use, please read instructions carefully. After installation, store instructions for future reference.

## Warnings

## Please read the below attention points before using

- I. Please hand over the screen to qualified professional for installation, non-qualified individual could cause damage to the product or injury of people.
- 2. Please make sure that the installation position can suffer from at least 50 Kg, otherwise there could be a potential dropping problem causing damage to the product or injury of people.
- 3. It is forbidden to connect the power before the installation is finished, otherwise it could cause damage to the product or injury of people.
- 4. Wrong wiring of malfunction of the wire could cause damage to the product or inquiry of people, please hand over the electric work to electric professionals.
  - ▲ 5. The product is using Single-phase AC power, please use a socket with earth wire and make sure the earth wire is well connected.
  - 6. Please make sure the screen is installed in a level status, otherwise it could cause damage to the product.
  - 7. For screen with IR control, please do not use it in places with strong light or laser. For screen with remote control, please do not get close to fluorescent lamp, led lamp or other device or environment with strong electromagnetic radiation, to avoid damage to the product.
  - 8. In order to lower down the possibility of fire or electric shock, please do not expose the product in damp places.
    - 9. Please keep the screen away from heating device such as heater, stove, etc.
- 10. As long as the plug is still in socket, the screen is still connected with AC power, please remove the plug during lightening, thunderstorm or not used for extended periods.
  - 11. Please retract the fabric fully in the case after using to avoid damage to the fabric by dust and dirt.
  - 12. If the surface of fabric is dirty or being cut, it will affect the image quality, so please pay attention to below points:
    A. Please do not touch the fabric with your hand
    - B. Please do not write or draw on the fabric
    - C. Please do not cut or poke the fabric to avoid damages
    - D. Please do not clean the surface with chemical cleaner, you can use dry cloth and soap water instead.
  - 13. To avoid unnecessary damage, please use and manage the product by adult
  - 14. Please choose only the accessories from original factory.
- 15. Please do not hang any items under the case to avoid potential damages.
  - 16. There are no spare parts inside for replace or repair, please contact the after sales team for after sales service.

falling.

fall

Fixtures should be installed in a secure

place to avoid accidents or the screen

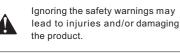
Roll up the screen after every use.

Leaving it hanging for a long period

of time may cause the fabric to loosen.

Refrain from hanging anything on the

screen as it may cause the screen to





Do not connect any electrical attachments or remote controls.

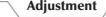


repairs or maintenance. Please contact our company if you have any further questions. Avoid taking apart the fixtures yourself. Loose parts may cause the screen to fall.

Please contact your local dealer for



- ■Please fully retract the screen after using to avoid the fabric exposing to the air and dust, which may cause the screen dirty lower down the projecting guality.
- Do not roll or retract screen until insure screen surface has no dust or dirt on.
- After using, please unplug screen or power off the outlet.
- It is not recommended that continuous operation of retraction or extension be over 50 seconds. Over heat of the motor due to operated continuously above 4 minutes would result the screen in protection status (Stop working for a while). In this situation, please stop operating the screen for a while until motor is cool.



- Clean the screen with a soft cloth and soap water. Do not use any chemical detergent for cleaning in case of any damage to screen.
- Lubrication is not necessary for the motor.
- The drop and retraction limits have been properly adjusted at the factory (If necessary, please contact the qualified technician or dealer for the adjustment.)

※ Adjustment of retract height (upper limit) and extension height (lower limit).

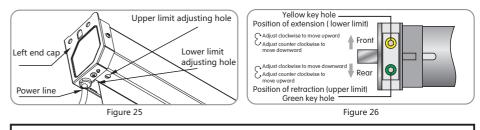
If necessary, the up and down limits can be adjusted through the internal motor positioning device which is on the left bottom of the screen, Generally adjusted the down limit and the desired height can be set. (Figure 25)



Please pay attention when adjusting retraction. Over-retraction is avoided in order not to spoil the motor and screen; please also pay attention when adjusting extension. The fabric should be rolled at least one and a half round onto the shaft to avoid the fabric fall off. After the adjustment is done, the difference of retraction and extension limit might not be found at once until the screen is operated for several times.

#### Adjustment of extension (lower limit).

Press the "down" button of the controller and the screen would extend. Insert the adjuster key into the positioner adjusting hole in yellow color on motor to make adjustment. Stand opposite to positioner adjusting hole and turn adjuster key clockwise to make fabric retract slightly, while turn counter clockwise to make fabric a little extension for adjustment.



Due to the special structure of the product, default of "retraction limit" has been perfectly set and it is not recommended to make adjustment by user so as not to damage the screen because of improper adjustment on retraction limit. Any damage out of this operation is not under warranty for the product.

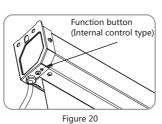
## Adjustment of retraction (upper limit).

Press the "up" button of the controller and the screen would retract. When the fabric rod goes nearby or enters the case, please insert the adjuster key (slight adjustment on direction is needed when insert adjuster key until the key enter correctly into the green hole) into the positioner adjusting hole in green color on motor to make adjustment. Stand opposite to positioner adjusting hole and turn adjuster key clockwise to make fabric extend slightly, while turn counter clockwise to make fabric a little retraction for adjustment.

## Instruction

2.2 Use screen function buttons to control screen (only available for internal remote type)

If without remote, there' s still a small button on the left bottom to control screen. Every press on the button, screen will circling go down, stop or go up.



3. External remote control and RS232/485 control

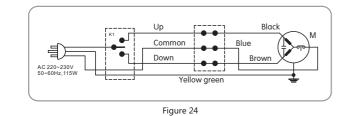
(Note External remote only available in normal motorized screen, can't used in internal remote control motorized screen)

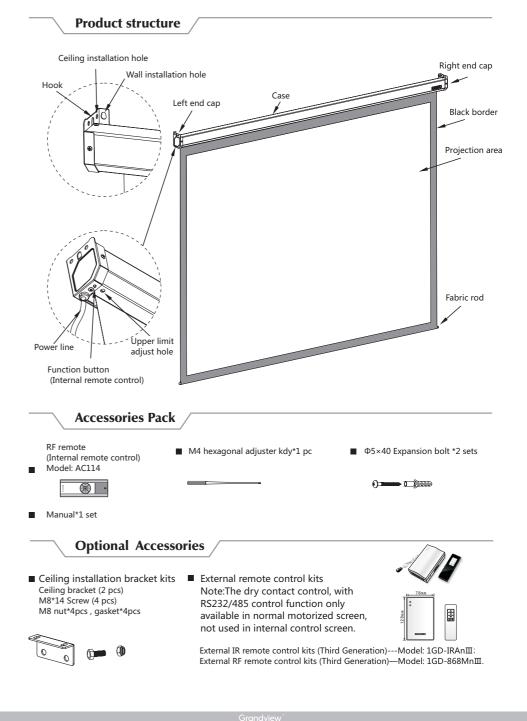
If remote control or RS232/485 control is needed, please upgrade the control system by installing external remote control kits (need to cut off the inline switch and reinstall the external remote control kits manually for alternative), see diagram 28-30. Please turn to the manual for external remote control kits to know more details on usage and wiring connection method.

Model available: External IR remote control kits (Third Generation)----Model: IGD-IRAnIII: External RF remote control kits (Third Generation)---Model: IGD-868MnIII.

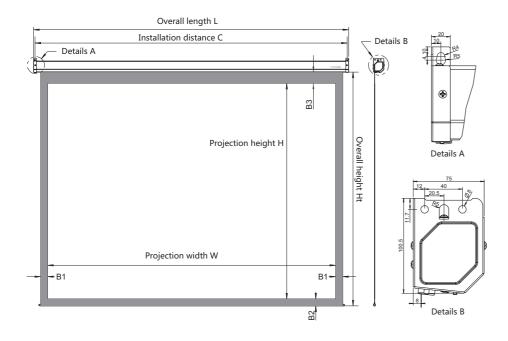


## 4. Circuit diagram





## **Framework and Dimension**



Parameter name	Symbol	Formula	Projection area ratio and size							
			4:3		16:9			16:10		
			100 Inch	120 Inch	92 Inch	100Inch	106 Inch	94 Inch	103 Inch	109Inch
width of viewing area	W		2030	2340	2030	2214	2340	2030	2214	2340
height of viewing area			1520	1755	1145	1245	1320	1270	1384	1463
left and right black border	B1		50	47	50	50	47	50	50	47
Spread black bottom	B2		55	55	55	55	55	55	55	55
Spread black top	B3		80	80	300	300	290	300	200	200
overall height	Ht	Ht=H+B2+B3	1655	1890	1500	1600	1665	1625	1639	1718
length of package	L	L=Lb+4	2221	2525	2221	2405	2525	2221	2405	2525
length of package	Le	Le=L+180	2401	2705	2401	2585	2705	2401	2585	2705
installation distance	С	C=L-20	2201	2505	2201	2385	2505	2201	2385	2505
distance of ceiling mounting hole	P1	P1=L+22	2243	2547	2243	2427	2547	2243	2427	2547
overall length of ceiling plate	L1	L1=L+40	2261	2565	2261	2445	2565	2261	2445	2565

Electrical data: AC220~230V/50~60Hz, 0.38A, 85W RF remote: 2 pcs of battery, 3V, 433MHz , effective control distance 15 meters.

Any change on function, structure or specification is without prior notice due to improvements on the product. Please refer to the specific product included.

## **Operation Instruction**

## Notes of using RF remote

•The product is using with 433MHz high ratio frequency, maximum effective control distance is within 15 meters, no need pointing remote to screen while controlling.

Please use in try save environment

- Don't use in environment close to strong interferers, (such as Mobile phone base stations, radio relay stations, television broadcasting tower, microwave, high-voltage power lines or substations), such environment will interfere the working condition of RF remote.
- •While feeling the remote control distance is reducing or indicator light is getting weak, please change 2 new pieces of battery.
- •If do not use remote for long time, please take out battery in case battery leak leads to remote damage.

### Wireless remote control pairing and un-pairing

• Internal wireless remote control have been well paring in factory, if customer needs change a new remote, please follow below instruction on repairing (All setting operation should enter setting mode first)

### Entering setting mode method

•Unplug screen, keep pressing "Up" button for 3 seconds until you find LED indicator changes from blinking status into steady lights on. Plug on screen power, you will hear a intermittent beep sound and see screen slight move up and down once, then release the "Up", it's already into the setting mode.

Note: Because beep sound device is installed in inside of motor, please be noticed of the weak beep sound.

a. Pairing between remote and screen

While entering setting mode(Slow beeping) within 5 seconds, press "Up" button, you will hear beep sound for 3 times and see screen move up and down once, which means pairing successfully. One screen can pair a few remotes, same paring method.

b. Un-pairing between remote and screen

While entering setting mode(Slow beeping) within 5 seconds, use paper clip or toothpick press "clear" button on back of remote, you will hear quick beep sound 3 times and see screen move up and down once, which means all remotes un-pairing to this screen.

c. Changing motor rotation direction

While entering setting mode (Slow beeping) within 5 seconds, press "Down" button, you will hear quick beep sound 3 times and see screen move up and down once, which means already change motor rotation direction successfully. After modification, press "Up" screen will go Down, while press "Down" screen will go Up.

d. Switching between clicking control and battering control. While entering setting mode (Slow beeping) within 5 seconds, press "Stop" button, you will hear quick beep sound 3 times and see screen move up and down once, which means switching control method successfully. (Original factory setting is battering control, users can switch according to personal reference)

#### Battering control:

Press once "Up" or "Down" button, screen will continually go up or go down to the limit position or until you press "Stop" button to stop.

### **Clicking control:**

Every press on "Up" or "Down" button, screen will go up or go down a little distance. Keep pressing "Up" or "Down" button for more than 1 second, screen will go up or go down to the limit position or until another press on "Up" "Down" "Stop" button to stop.

#### Caution:

All the setting operation should finish within 5 seconds, exceeding 5 seconds screen will automatically go back normal status. Every setting mode is allowed with a aspect setting, repeat the same operation to setting mode for other adjustment if necessary.

## **Operation Instruction**

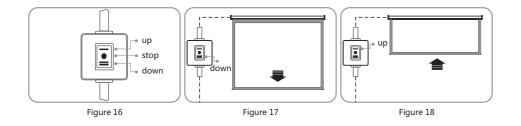
We have two serial numbers for normal motorized screen and internal wireless motorized screen DI-Mxxx series: Normal motorized screen, controlled with inline switch DI-MRxxx series: Internal motorized screen, controlled with RF remote

### 1. DI-Mxxx normal motorized screen operation:

Screen expansion (Figure 16): Press down "=" button, screen will automatically fall and stop at the fully expansion position.

Screen retract (Figure 17): Press up "-" button, screen will automatically retract and stop at the fully retract position.

Screen stop (Figure 18): Press middle "O" button to locate screen at any desire position.



## 2. DI-MRxxx Internal motorized screen operation:

## 2-1. Use remote to control screen

Battery installation and replacement:

Please use 2 pieces of (AAA) battery.

3.Close battery cover.

1.Turn over remote, open battery cover.

Instruction of remote buttons: 1. Press UP button, screen goes up. 2. Press STOP button, screen stops. 3. Press DOWN button, screen goes down.

Please install battery before first time remote control.

2.Press the battery positive and negative battery access.

LED indication light AC114 UP button CLEAR DC 3V AAAx2 button 0 STOP Battery lock buttor position • DOWN 6 Please replace a new battery once the remote signal is weak. Ś Battery button positión 3IZE: Ş. 0 • AC11

Front

Back

Figure 19

## Installation Instruction

Before installation, please ensure your wall or ceiling has enough strength to bear at least 25KG weight. In case product drop accidence result in damage, property lost and casualty.

Installation of the product must be completed by qualified technician(s), or it would result in damage, property lost and casualty.

Please unpack the package and check if the fittings are correct in number and types. Please install the screen at proper place according to installation instructions below.

Choose wall installation or ceiling installation according to your needs and installation environment. Use corresponding screws and nuts. (Suggest: If it's wooden wall or ceiling,  $\Phi 5 \times 40$  Self-tapping screws is better. If it's concrete wall or ceiling, M8 x 50 expansion screws is better)

## 1. Wall mounting installation:

Note

a. Wood wall mounting:

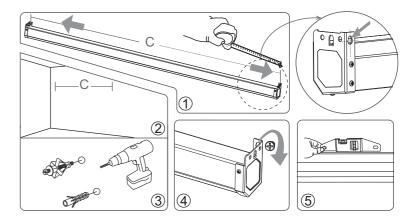
Use the tape measure the two installation holes distance (Figure 1). According to the length measurement, use drill to open two appropriate holes in a level line. (Figure 2~3) Drill in the Ф5 x 40 Self-tapping screws through the appropriate holes in the bracket, fasten screws and hang on screen. (Figure 4).

Put a foot level on screen, measure and adjust to level line (Figure 5).

b. Concrete wall mounting:

Use the tape measure the two installation holes distance (Figure 1). According to the length measurement, use drill to open two appropriate holes in a level line. (Figure 2~3) Drill in the M8 x 50 expansion screws through the appropriate holes in the bracket, fasten screws and hang on screen. (Figure 4).

Put a foot level on screen, measure and adjust to level line (Figure 5).



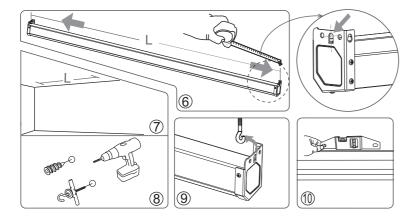
6

## Installation Instruction

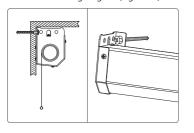
## 2. Ceiling hanging installation:

Use the tape measure the two installation "D" holes distance (Figure 6) According to the length measurement, use drill to open two appropriate holes in a level line. (Figure 7~8) Drill in the screw hook through the appropriate holes in the bracket, fasten screws to "D" hooks and hang on screen. (Figure 9).

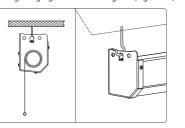
Put a foot level on screen, measure and adjust to level line (Figure 10).



#### Wall mounting diagram (Figure 11)



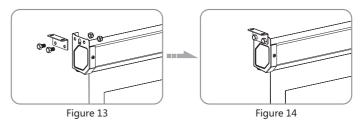
#### Ceiling hanging installation diagram (Figure 12)



## Installation Instruction

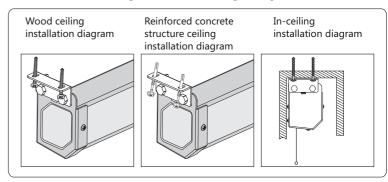
## 3. Ceiling fastening installation:

3-1. Use M8 x 14 screws Optional parts to connect casing hook through ceiling bracket, fasten ceiling brackets onto casing end caps, then fasten screws and nuts tightly.



3-2. Use wood teeth screws or Self-tapping screws (not-provided) to connect to ceiling through bracket. Fasten brackets and casing to ceiling tightly.

## Ceiling fasten installation diagram (Figure 15)



## 4. Remove bottom bar fixed tapes and ties:

Warning:

In case of crash during transportation, bottom bar will be fastened with tapes and ties while leaving factory. After screen installation, please remove bottom bar fixed tapes and ties to avoid screen inappropriate working or screen damage.



Any installation of the screen related to electrical operation must be done by qualified electrician, or it is likely to damage the product or property lost and casualty.

## Note:

Before connecting the products to power supply, please make sure the put-in voltage is in conformity with rated voltage of the product. It is recommended that supply power should be 2 times or above as much as the rated power of the product. Any improper power supply would lead to abnormal performance or even spoil the product.