

CHART PROJECTOR OPERATION MANUAL



Contents

1.1 Functional characteristics:	2
2.1 Technical specifications:	3
3.1 Introduction to main engine	4
3.2 Note on the use of wall hanging bracket	5
3.3 Keys in Remote control	6
4.1 Application method of Remote control	7
5.1 Sitting type installation Instruction	9
5.2 Wall-hung type installation Instruction	9
6.1 Installation for Remote control's battery	10
6.2 Notice for the battery	10
7.1 Transportation and storage	11
7.2 Fault and Maintenance	11
8.1 Security precautions:	12
9.1 After-sale service	14

Part 1.

1.1 Functional characteristics:

- Super thin and light design, high definition scheme, The professional digital picture processing technology, fast switching, easy to operate.
- Measuring accuracy with the distance from 2.0m to 7.0m and the smallest step 0.1m.
- Offering single display function, which includes eight rows and three lines charts.
- Offering fully charts, which includes the total forty-five charts: International C word, International E word, Children, Figures, Astigmatism, Binocular balance and so on.
- Sitting type installation & Wall-hung type installation both available, which enable the installation convenient and maintenance easy.
- High resolution LCD screen and small dot pitch(0.2842MM) adopted, which ensure the clear image seen.
- Powerful extension, available to connect with a computer as computer monitor, or as TV or as VCD(V3 type).
- Support external USB. It is more convenient to support the extension of function for user, streaming media (RM) play (V3 type).
- Support various external signal source that includes: VGA, S-VIDEO, AV, TV(V3 type).

1.2 Packing list:

No.	Description	Quantity(Piece)
01	Main body	1
02	Remote control	1
03	Battery for Remote control	2
04	Hung kit	1
05	The wall mounting screws	4
06	Power wire	1
07	Operation manual	1
08	Warranty card	1
09	Product certification	1

Part 2.

2.1 Technical specifications:

01. Power supply: AC100V to 240V, 50/60Hz
02. Standard power: Approx. 45W
03. Standby power: Approx. 2W
04. DPI of monitor: $1440 \times 900/60\text{Hz}$
05. Dot pitch of monitor: 0.284mm
06. Type of monitor: TFT
07. Ratio of monitor: 16:9
08. Size of monitor: 19"
09. Visual size: $408.24 \times 222.15\text{mm}$
10. Visual angle: H:170/V:160
11. Color: 16.7M
12. Max brightness: 300CD/M²
13. Maximum contrast: 2000:1
14. Corresponding signal time: 5MS
15. External dimensions: $460 \times 355 \times 200$
16. Unit weight: 5.0Kg
17. Measuring distance: 2M to 7.0 M
18. Recording methods of vision: Decimal & Imperial fraction
19. Control distance: not less than 8m for maximum

Part 3.

3.1

Introduction to main engine



It's the power indicator light
It's the receives of the window for the remote control

Notice: The power indicator is red for standby mode, and the green is the power supply.



External 12V
power interface

HDMI

VGA

Audio port
(standby)

USB

Power
input
socket

FUSE:F2AL250V
A device to protect this
equipment from
excessive currents.

3.2 Note on the use of wall hanging bracket

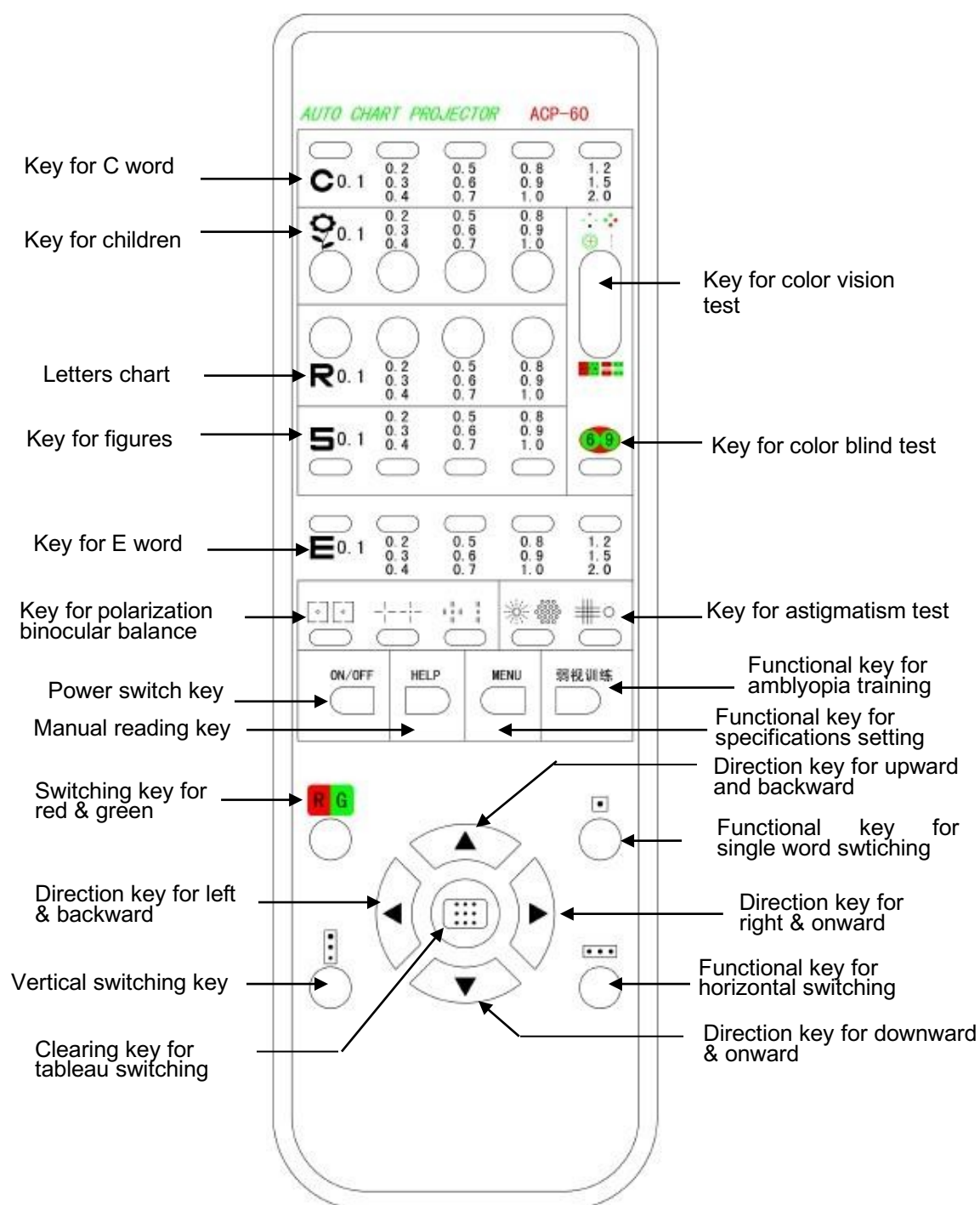


Hang up the mouth

Wall hanging bracket (on the wall)

1. The wall bracket is placed on the wall (up to the top of the opening), and the four expansion screws are arranged at the round hole;
2. Use four self tapping screws fixed wall bracket;
3. Align the back of the instrument to the hanging of the hanging wall bracket.

3.3 Keys in Remote control.



Part 4.

4.1 Application method of Remote control

1. The selection of charts

Press the keys for charts to select the corresponding chart.

2. Function selection

A. Single line display.

By pressing “Functional key for horizontal switching” it can realize the single line display of corresponding charts.

B. Single row display.

By pressing “Functional key for vertical switching” it can realize the single row display of corresponding charts. C. Single display.

By pressing “Functional key for single word switching” it can realize the single display of corresponding charts.

D. Red/Green display.

By pressing “Switching key for Red & Green” it can realize the single display of corresponding charts.

E. Cancel single display.

By pressing “Clearing key for tableau switching” it can cancel the single display of corresponding charts.

3. Browse of charts.

In any state, by pressing the updown keys it can play for all the charts’ repeat browse.

4. Use of Color blind charts.

In any state, by pressing “Key for Color blind test” it will display the first color blind chart. When pressing it for many times continually, it can realize the repeat display for all the color blind charts.

5. Use of Amblyopia training.

In any state, by pressing “Functional key for Amblyopia training” it will start the function of amblyopia training. When the function is started, it can stop using the function.

6. Reading the operation manual.

In any state, By pressing “Manual reading key” show the first page of the manual. Continually press it, it will go to the next page.

7. Checking & Setting of specifications.

The work specifications includes: lightness, contrast ratio, acuity, RGB-R value, G value, B value system language, work mode, work distance, screen parameter selection and reset operation.

In any state, by pressing “Functional key for specifications setting” it can check and set the work specification. Press the key for the first time, it will automatically select the first item “lightness”; continually press the key for more times or press upward and downward keys, the system will repeatedly select all items successively, meanwhile the selecting item is coming with bright color. When some item is selected, press left or right direction key to adjust the corresponding specification; after the adjustment of specification, it is no need to operate anything, the system will save it automatically and take effective immediately. The last item in specification’s adjustment is reset operation. When user can’t confirm if each specification is set up correctly, the system specifications will restore factory settings by completing the reset operation only one time.

8. Start or shutdown the system.

In the state of shutdown, press Power key to start the system; In the state of start, press Power key to shutdown the system.

Part 5.

5.1 Sitting type installation Instruction

Due to the different structures used in different models, it may be distinguishing for the installation of different models, please choose the corresponding operation method according to your model.

Below is the method for sitting type installation:

1. Open the carton, take out the main body and base, and keep other spare parts inside well for future use.
2. Push open anti-release dowel at the bottom of base.
3. Insert the junction plate into the corresponding hole of base.
4. Tighten the anti-release dowel of base.
5. Place the machine well, then connect it with power.

5.2 Wall-hung type installation Instruction.

Below is the method for wall-hung type installation.

1. Open the carton, take out the main body, hung kit & plastic setscrew, and keep the other spare parts inside well for future use(It has been connected well for main body and hung kit during the packing, when taking out the main body, the hung kit will be taken out as well.).
2. Uncover the tape used for fixing wall panels, and take out the wall panels.
3. Fix the wall panels on a solid wall firmly.
4. Keep the hanging slot of junction plate head for the rabbet of wall panels, fastening the machine well, and then connect it with power.

Part 6.

6.1 Installation for Remote control's battery.

Please follow the steps below to install the battery.

1. Open the battery cover.
2. Put two batteries inside. Note please install them correctly according to their positive and negative polarity.
3. Close the battery cover.

6.2 Notice for the battery.

Without the correct use on the remote control battery, it may result in liquid leak and damaging the remote control, so please use it carefully as the following methods:

1. Please note their polarity during the installation on battery, otherwise, it may cause short circuit of battery.
2. In the state of low voltage, it will influence the control distance, this moment shall replace new battery. When not using the remote control for a long time or running down of battery, please take out the batteries.
3. Prohibit mixing different type of batteries, such as the mixing alkaline battery with Zn Mn battery.
4. Prohibit throwing the battery into fire.
5. Prohibit attempting to charge batteries or decompose them.
6. Please discard them abide by the corresponding environmental rules.

Part 7.

7.1 Transportation and storage

Please note arranging the transportation and storage in the following environmental conditions:

1. Temperature: -10°C to 40°C
Humidity: 20%RH to 80%RH
2. Make sure there is no toxic gas and polluted air.
3. Without direct sunlight.
4. There is no violent tremor.

7.2 Fault and Maintenance

For safety and effect use on the machine, we suggest not attempting to make the maintenance for ordinary user. If the machine can't work properly, please extract the power wire in time, and consult professional or inform the manufacturer to do it.

The instruction of fault and maintenance is only for the reference in maintenance. Before looking for after-sale service you can check by the following methods, it may help you solving the occurring problems.

Part 8.

8.1 Security precautions:

Incorrect use will cause electric shock or fire accident, to avoid the danger situations, please follow the instructions below during the installation and cleaning of the machine.

For ensuring your safety and extending machine's service life, please read the following safety precautions carefully:

1. To avoid the damage of product, do not use the machine in thunderstorm weather and please unplug the power socket.
2. It is not allowed for over load on AC power socket and extension line. Otherwise, it may cause fire or electric shock.
3. Properly place the power line to avoid being treaded or extruded.
4. Please extract the power plug before removing the machine.
5. The power plug shall be inserted into socket. If it gets loose, it may cause spark.
6. Please hold the head of plug when extracting the plug, don't pull the power wire.
7. When the machine long time no service or personnel is out, please hold the head of plug to extract from power socket.
8. To avoid the danger of electric shock, the three-pin power supply shall be kept good grounding.
9. Please extract the plug from power socket before cleaning the machine.
10. Please use a little wet duster cloth for cleaning the machine and it is prohibited to use liquid detergent or spray cleaner.
11. The surface of screen is easy to scratch, so please keep in mind to use special Lens cleaning cloth but not a wet duster cloth to clean.
12. Don't throw any object on the machine, otherwise, the impact force may cause a explosion occurred on the glass of screen and grievous bodily harm.
13. Please use the supplied ancillary facilities, and it may cause an accident for the use of inappropriate on the facilities.
14. Don't put any foreign object through air vent into the machine, otherwise, with the foreign object or liquid inside it is easy to cause short circuit because of high-tension circuit.

15. The air vents or apertures are used for ventilation, so don't cover these air vents or apertures.
If any place without good ventilation, the machine may become overheat or the service life becomes shorten.
16. Please keep good ventilation conditions for the placing machine.

Part 9.

9.1 After-sale service

Please don't attempt to repair the machine by yourself, and it is needed looking a professional technician to repair because what you are facing are high voltage and other dangers.

Under the conditions, please extract the plug correctly from power socket and looking for a professional technician to repair:

1. The damage of power wire or socket.
2. Any liquid slopped on the machine or foreign object fallen into the machine.
3. The machine was soaked in the rain or immersed into water.
4. The machine fallen off or damage.
5. The machine works not properly.

Repair guide:

1. Phone repair

Step 1. Please send a call to specify what fault phenomenon is happened.

Step 2. Delivery the failure machine/spare part to our company or distributor according to factory and/or distributor's confirmation.

Step 3. Offer repairing work and return it to user.

Step 4. Call back services.

2. Email repair

Step 1. Please send email(s) to specify what fault phenomenon is happened.

Step 2. Delivery the failure machine/spare part to our company or distributor according to factory and/or distributor's confirmation.

Step 3. Offer repairing work and return it to user.

Step 4. Track the user by email.