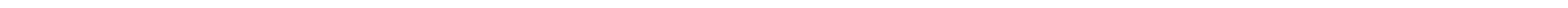


Digital Projection Friend

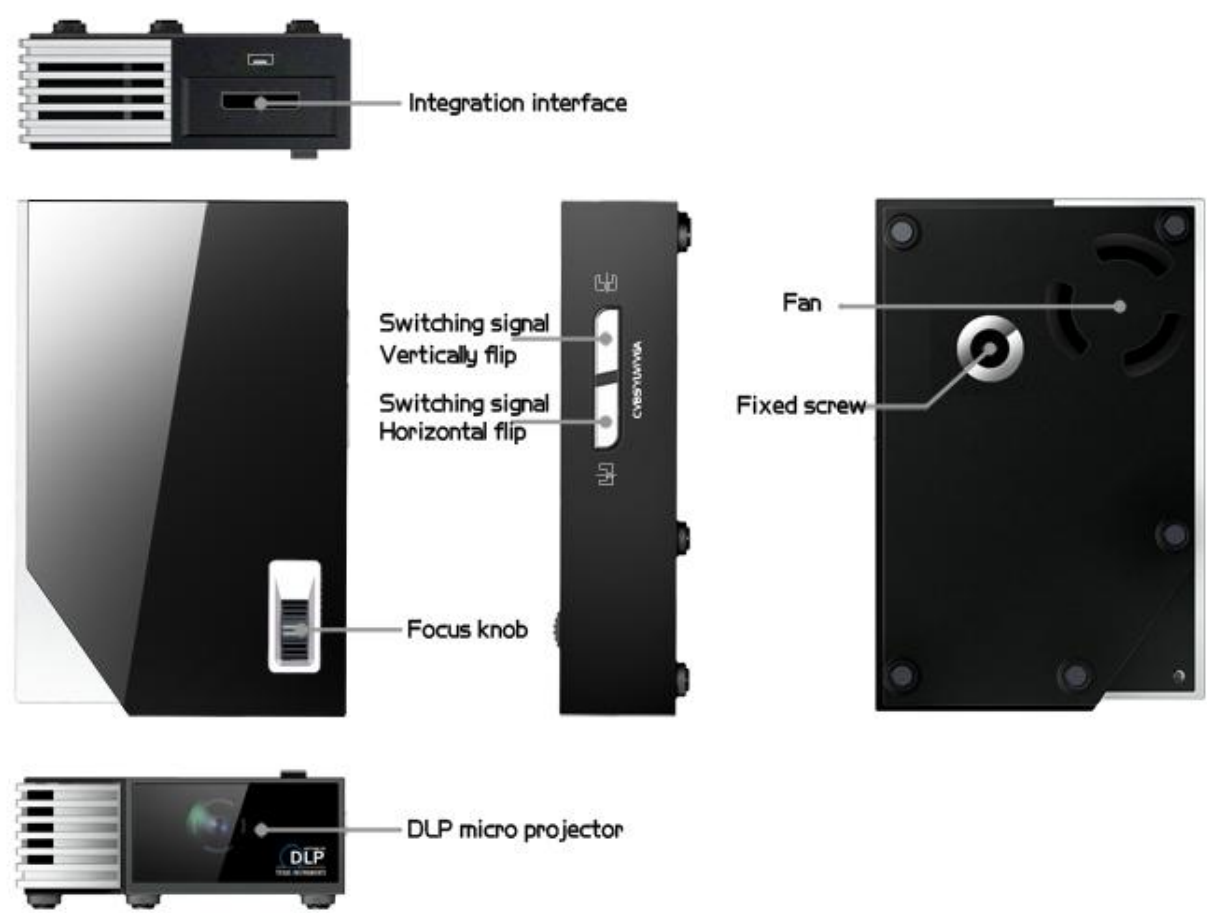
User Guide



Directory

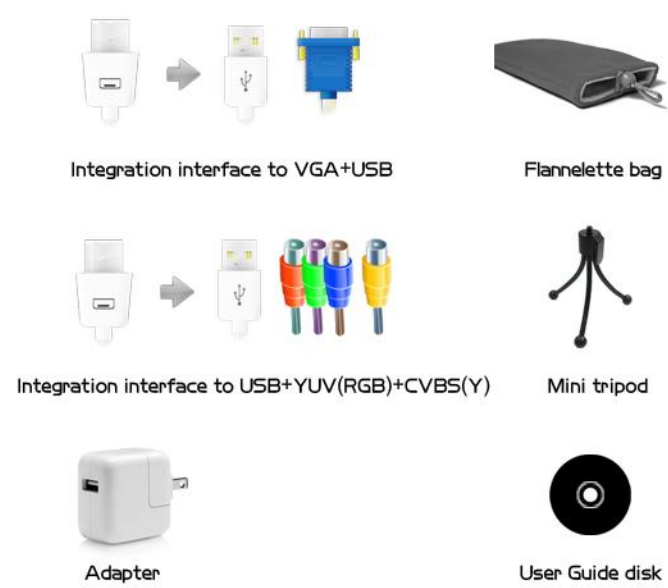
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Overview



Accessories

Digital projection friend incidental to the following accessories * :



* Product batch different parts appearance may have difference, please in kind prevail

| Accessories | Use |
|--|---|
| Integration interface to VGA+USB cables | Connection with digital projection friend and computer, to transmit data .USB to provide power supply |
| Integration interface to USB+YUV+CVBS cables | YUV(YPbPr) Used to connect YPbPr signal interface , CVBS used to connect AV interface , USB to provide power supply |
| Mini tripod | Fixed digital projection friend to achieve the optimal projection position |
| Flannelette bag | Used for carry digital projection friend ,to avoid slashed and dustproof, lower drop damage |
| Adapter | Provide power supply |

Buttons

A few simple buttons, you can easily operate digital projection friend. When image at different display direction switching and select different video signal

Switching signal/ Vertically flip

When digital projection friend working normally, **short** press to **switching video signal**, **long** press 1 second and above to **flip vertically** the display images, in order to meet different display needs

Switching signal / Horizontal flip

When digital projection friend working normally, **short** press to **switching video signal**, **long** press 1 second and left to **flip horizontal** the display images, in order to meet different display needs.

Focus knob

When digital projection friend at normal working condition, to adjust the DLP projection before and after turn the focus, to obtain optimal projection results

Technical Specification

Display Technology : TI DLP 0.3" single DMD chip

Light Source : LED (Red, Green, Blue)

LED Life : 20000-50000 hours

Resolution : 854 x 480(FWVGA)

Color Reproduction : Full 16.7 Million Colors

Brightness : 20 lumens

Contrast Ratio (Full on/off) : 1200: 1

Throw Ratio : 2.2 (Projection Distance/Width of Image)

Input Interface : YUV/CVBS/VGA

Adapter : USB 5V

Projection Mode : Orthographic projection/Rear projection

Projection Scale : 16:9

Lens : Focusing lens, Manual focus

Projector Size : 79*50*17 MM



[warning] in order to avoid injury, do not in digital projection friend work when the DLP projection light –durable & reliable machine or illuminate others eyes.

Environment needed

If you want to use digital projection friend, you need to:

- With VGA interface digital device , such as PC、Notebook
- With YUV(YPbPr)、CVBS interface digital device , such as PSP*、iPhone*、iPad*、STB、DVD、DV

*Need the device specific video output cable

Connect

According to requirement use cable connect your computer with digital projection friend, projection will start automatically, fan begins to work and the DLP projection start.

VGA mode(PC-HV)

Now almost notebook provide VGA interface , use [integration interface to VGA+USB cables](#) connect with digital projection friend and computer' s VGA interface. Connect USB to computer or adapter.

Short press to [switching video signal](#) button select VGA mode , in the top left corner of the screen display “PC-HV”.

XP user

Now Windows XP user can use Fn key+ screen switch(depend on different brand) , try to switch.

You can also click right button on desktop , select “Property” — “Setting” and select second display device and checked ☒ 将 Windows 桌面扩展到该监视器上(E) , click “OK”。

Windows7、Vista user

You can use Windows key+P select working mode。 See chart :



Only computer

Only display on primary screen

Copy

Projector and primary screen displayed the same image.

Extended

Projector displayed as the second screen at the right of primary screen default , you can drag the active window to this extended screen to projection.

Only Projector

Only display on projector

Display setting

Open "Property" — "Setting" , you can drag the monitor icon to adjust ubiety.



Resolution

Current digital projection friend for the resolution of support :

1280X768@60Hz

1024X768@60Hz

1024X768@70Hz

1024X768@75Hz *

800X600@60Hz

800X600@70Hz

800X600@75Hz *

640X480@60Hz

*High Refresh Rate maybe make the projector unusual

CVBS mode(CVBS)

CVBS is the video part in the traditional AV signal, it is very easy to use this mode, just connect digital projection friend and video source with [Integration interface to USB+YUV+CVBS cables](#), [Short](#) press to [switching video signal](#) button select CVBS mode, in the top left corner of the screen display "CVBS".

YUV mode(Component)

YUV(YPbPr) interface is popular in our life, it is easy to use this mode, connect digital projection friend and video source with [Integration interface to USB+YUV+CVBS cables](#), [Short](#) press to [switching video signal](#) button select YUV mode, in the top left corner of the screen display "Component".

Working Environment

Temperature

Digital projection friend at working condition will generate heat itself, if the environment temperature is exorbitant, make projector internal temperature above the normal working temperature, you may meet the following questions :

- The DLP projection light machine blinking
- Projection image dithering
- Projection image color deviation

【Important】 Above condition appear, please check the power supply is stable, video signal is normal, fan is in normal, ensure digital projection companion work normal heat.

Environment Light

High environment light will seriously affect projector's projection effect, we suggest you possibly reducing the environment light for optimal projection results.

Projection Distance

Digital projection friend Throw Ratio is 2.2 (projection distance/image width), projection size in the list below :

| Projection size list | | | |
|-----------------------------|---------------------|----------------------|----------------------|
| Projection distance (mm) | Image width (mm) | Image height (mm) | Image size (inch) |
| 974 | 442.7 | 249.3 | 20 |
| 1500 | 681.8 | 383.5 | 31 |
| 2000 | 909.1 | 511.4 | 41 |
| 2500 | 1136.4 | 639.2 | 51 |
| 3000 | 1363.6 | 767.0 | 62 |
| 3500 | 1590.9 | 894.9 | 72 |

| | | | |
|------|--------|--------|----|
| 4000 | 1818.2 | 1022.7 | 82 |
|------|--------|--------|----|

projection ratios 2.2

1 inch=25.4mm

Dust

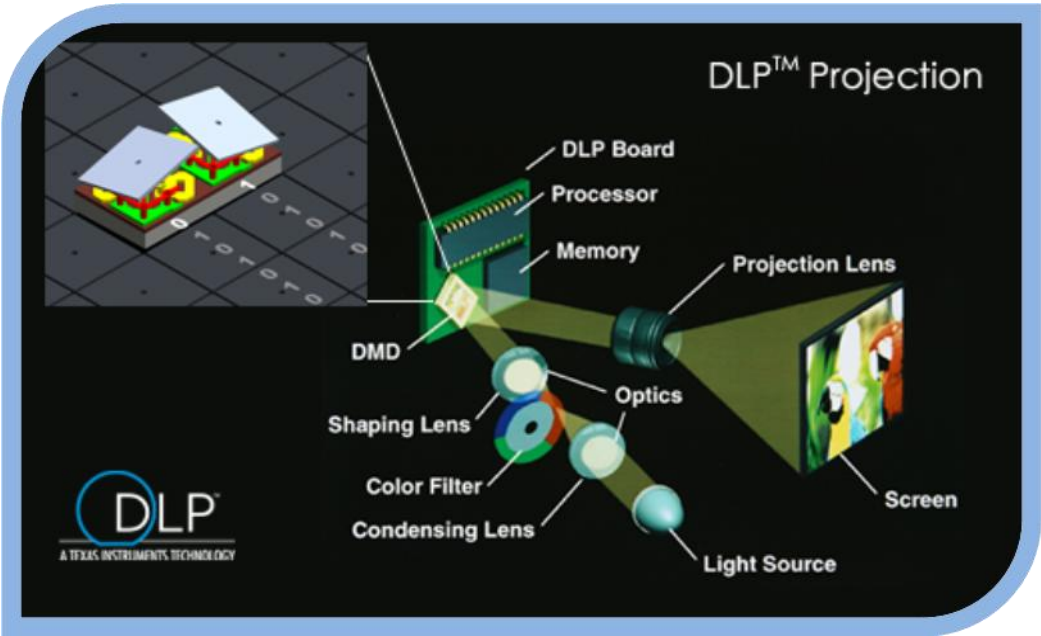
Excessive dust may cause the DLP projection lens's fully rate drop before the shutdown, please keep digital projection friend clean, keep in the flannelette bag properly when you are not using it

Projection screen (Optional)

You can get a projection screen ,use with digital projection friend, can obtain more excellent projection effect.

The DLP technology introduction

DLP technology from Texas Instruments is a precise, digital imaging chip that powers today’s best projectors, HDTVs, Digital Cinema systems and other sophisticated devices for medical, printing, security and more.



DLP is the only technology that is flexible enough to light up a giant movie screen or project an image from something as small as a cell phone.