

Dream Vision X3

User and Installation Manual
The home theater projector

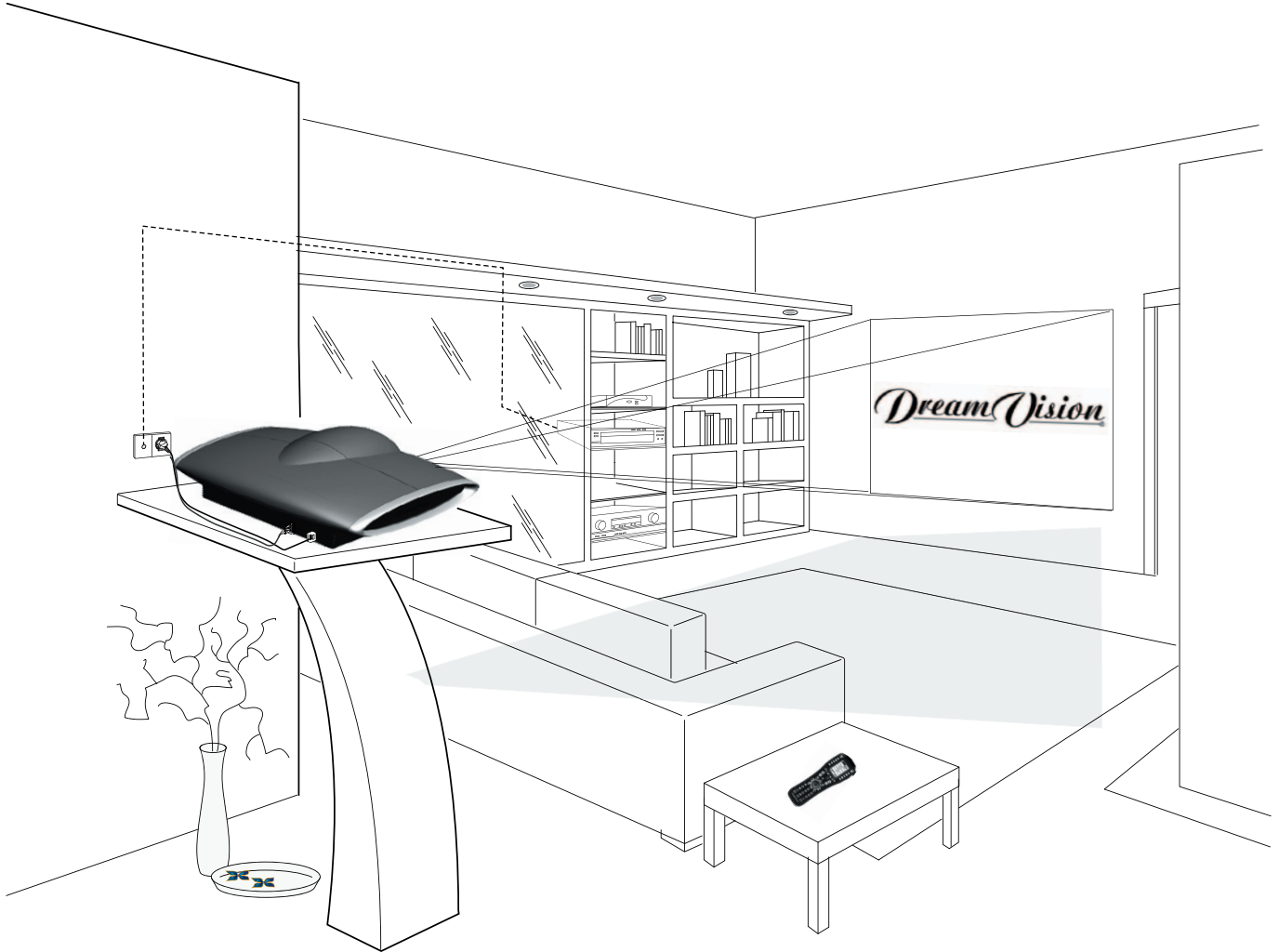




1 INTRODUCTION

Congratulations and thank you for your excellent choice of a high-end digital image projection device.

The DreamVision® X3 has been specifically designed for the best Home Cinema application. Your projector sets the standard for high definition digital perfection, featuring a true High Definition resolution of 1280 x 720, using the latest 3-chip DLP technology from Texas Instruments™ and the new DCDi™ video processing from Faroudja™.



The large number of inputs available (1 Composite Video input, 1 S-Video input, up to 2 Component or RGB inputs, 1 graphic RGB input, 1 DVI-D input, 1 HDMI™ Input) ensures the system supports a wide variety of analogue and digital sources : DVD players, VCRs, satellite and terrestrial receivers, computers, game consoles, video cameras, etc.

The signal processing capabilities of the Image Processor ensure optimum reproduction of a broad range of input signals, from interlaced video to high definition and graphics.

Conversion of interlaced video signals to progressive signals by means of prestigious DCDi™ technology produces fluid, natural, images free of flicker and stairstepping artefacts.

Faithful reproduction of signals at higher resolutions (such as high definition video and graphics) occurs without loss of information or reduction of image sharpness thanks to the processor's high pixel rate signal acquisition capabilities.

Adaptation of the input signal resolution to the Projector resolution occurs without alterations of image quality, in accordance with an ample choice of aspect ratios, including several definable by the user. All image adjustments can be performed with the remote control with the aid of the On Screen Display ; alternatively, the unit can be controlled by from a home automation system through the serial port.

Thanks to the new optical system based on three chip DMD™, the X3 allows you to take advantage from DLP™ technology, the Texas Instruments technology.

Each of the three DMD™ chip is dedicated to the modulation of one of the primary colors coming from the optical prism, the reflected light, after combination by a second prism, is projected outside using an appropriate lens system.

The technology of the DreamVision X3 projector allows to obtain images without rainbow effect or any other type of artefact, in order to enjoy even more realistic images.

DreamVision carries out comprehensive functional testing in order to guarantee the maximum product quality. For this reason, when you start using the product lamp operating hours may already be at between 30 and 60.

In addition to the regular tests, the Quality Control department performs additional statistical tests at the time of shipment.

In this case the packing may show signs of having been opened, and the accumulated lamp operating hours may be slightly higher than the hours associated with the standard tests.



DLP and DMD are registered trademarks of Texas Instruments. DCDi is a registered trademark of Faroudja, a division of Genesis Microchip, Inc.

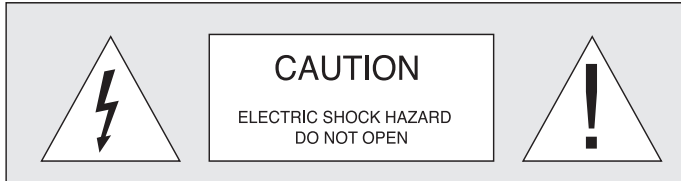
HDMI, the HDMI logo and High-Definition Multimedia Interface are trademarks or registered trademarks of HDMI Licensing LLC

2 IMPORTANT SAFETY INSTRUCTIONS

ATTENTION:

To reduce the risk of electric shock, disconnect the power supply cable on the rear panel before removing the top cover of the projector.

Refer to trained, authorised personnel for technical assistance.



This symbol indicates the possible electric shock hazard associated with uninsulated live components in the interior of the unit.



This symbol indicates the presence of important instructions regarding use and maintenance of the product.

Prior to switching on the projector please read each chapter of this manual carefully as this manual provides basic instructions for using the projector.

The installation of the lamp assembly, preliminary adjustments and procedures that necessitate the removal of the top cover, must be carried out by authorised, trained technicians. There are no user serviceable parts inside. To ensure safe and long term reliability please use power cables supplied with the projector. Observe all warnings and cautions.

CLASS 1 LASER PRODUCT

This product complies with fda radiation performance standards, 21 cfr chapter 1 subchapter j.

This product complies with european standard en 60825.

This product is classified as a class 1 laser product and there is no hazardous radiation with the safety protection.

Danger! Invisible laser radiation when open. avoid direct exposure to beam.

Do not open the covers of the product and never touch the internal parts in order to avoid exposure to visible or invisible laser radiation.

• Federal Communication Commission (FCC Statement)

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 when the equipment is used in a commercial environment. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, 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.

• For customers in Canada

This Class B digital apparatus complies with Canadian ICES-003.

• For customers in the United Kingdom

ATTENTION: This apparatus must be earthed

The wires in this mains lead are coloured in accordance with the following code:

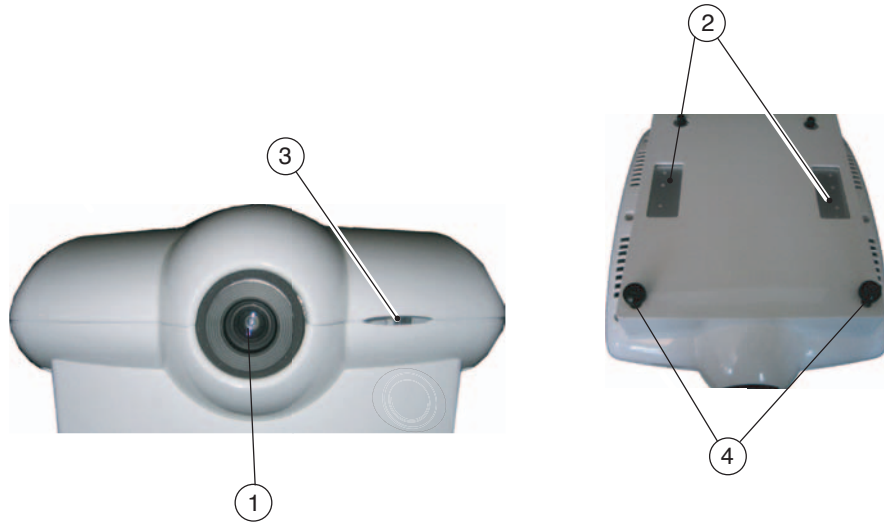
Green-and-Yellow:	Earth
Blue:	Neutral
Brown:	Live

As the colours of the wires in the mains lead of this apparatus may not correspond with the coloured markings identifying the terminals in your plug proceed as follows:

The wire which is coloured green-and-yellow must be connected to the terminal in the plug which is marked by the letter E or by the safety earth symbol \equiv or coloured green or green-and-yellow.

The wire which is coloured blue must be connected to the terminal which is marked with the letter N or coloured black.

The wire which is coloured brown must be connected to the terminal which is marked with the letter L or coloured red.



- 1 Projection lens
- 2 Ceiling bracket fixing holes

- 3 Remote control IR sensor
- 4 Adjustable levelling feet

- Read this manual carefully and keep it in a safe place for future consultation. This manual contains important information on how to install and use this equipment correctly. Before using the equipment, read the safety prescriptions and instructions carefully. Keep the manual for future consultation.
- Do not touch internal parts of the units. The units contain electrical parts carrying high voltages and operating at high temperatures. Do not remove the cover from the units, refer to qualified service personnel for all repair and maintenance requirements. The warranty will be automatically invalidated if the cover is removed from the units.
- Power supply disconnect device. The device for disconnecting the units from the mains power supply is constituted by the power cable plug. Ensure that the power cable plugs and the electrical mains socket outlets are easily accessible during installation operations. To disconnect the units from the electric power supply, pull the plug to remove it from the socket outlet. Do not pull the power cable.

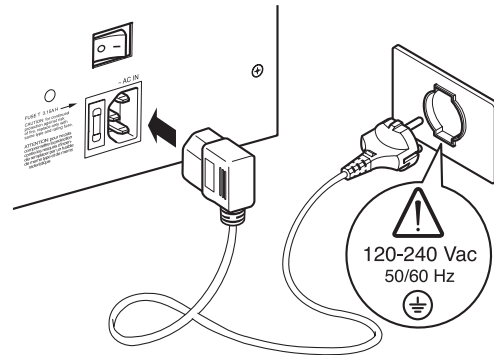


Fig.1

- Use only the specified type of mains power supply. Connect the units to a mains electrical supply with rated voltage of between 120-240 VAC, 50/60 Hz and equipped with a protective earth connection. If you are unsure of the type of mains power supply in your home, consult a qualified electrician. Ensure that the power draw of the units is commensurate with the rating of the electrical socket outlets and any extension cables that are used.
- Replace the safety fuse

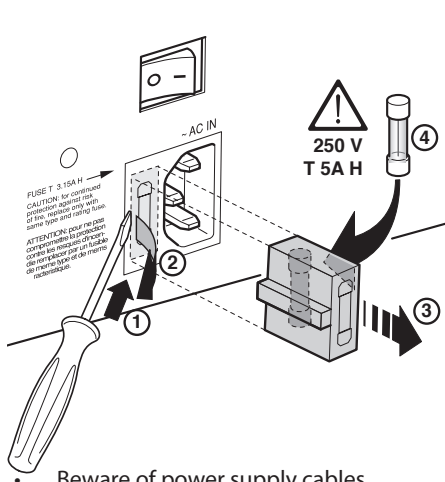


Fig.2

- Beware of power supply cables. Position the power supply cables so that they do not constitute an obstruction. Position the power supply cables where they cannot be reached by children. Install the units as close as possible to the wall electrical socket outlet. Do not tread on the power cables, make sure that they are not tangled or pulled; do not expose the power cables to heat sources; make sure that the power cables do not become knotted or kinked. If the power cables become damaged, stop using the system and request the assistance of an authorised technician.
- Disconnect the apparatus from the mains power supply in the event of electrical storms and when not in use. To avoid damage that could be caused by lightning striking in the vicinity of your home, disconnect the units in the event of electrical storms or when the system will remain unused for prolonged periods.
- Avoid contact with liquids and exposure to humidity. Do not use the units near water (sinks, tanks, etc.); do not place

objects containing liquids on top of or near the units and do not expose them to rain, humidity, dripping water or spray; do not use water or liquid detergents to clean the units.

- Prevent the units from overheating. In order to allow the Projector cooling, keep at least 40 cm (16") of space between the rear of the projector and the nearest wall or obstruction. Do not place the devices near heat sources such as heaters, radiators or other devices that generate heat (including amplifiers). Do not obstruct ventilation openings. Do not place the units in confined, poorly ventilated positions (bookcases, shelves, etc.).
- Do not expose the eyes to the intense light emitted by the lamp. Never look directly at the lamp through the ventilation opening when the unit is switched on. Risk of eyesight impairment. Ensure also that children do not look directly at the lamp.
- Beware of the lens movements. Avoid positioning objects close the lens. The movements (horizontal and vetical) could be obstructed by objects, or damage may arise from the fall of the objects.
- Position the unit on a stable surface. To avoid serious injury to persons and damage to property, make sure the units are placed on a level, flat and stable surface from which they cannot fall, tip over or slide. Pay special attention if the units are placed on a trolley so that they can be moved around. Ensure that the units are not subjected to impact.
- Do never insert objects through the units' openings. Make sure that no objects are inserted inside the units. If this should occur, disconnect the unit from the power supply immediately and call an authorized technician.

3 UNPACKING

Unpack the projector safely and easily.

It is recommended that the carton and packaging is retained for future use and in the unlikely event that your projector needs to be returned for repair.

PACKAGE CONTENTS

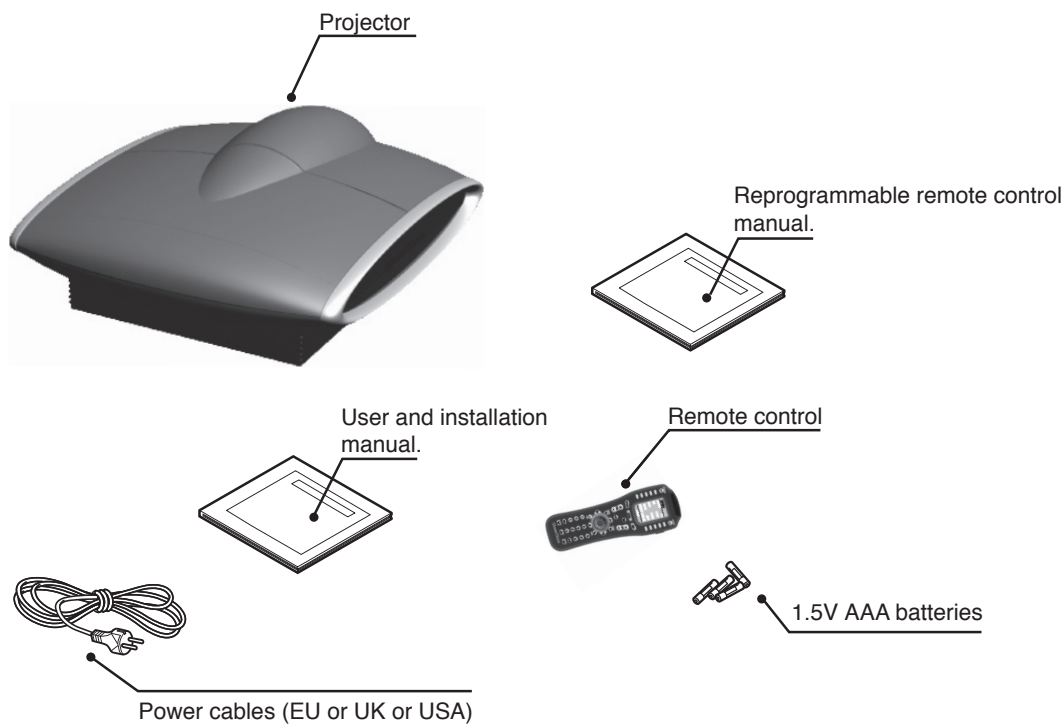


Fig.5

The carton should contain the following:

- the projector
- the remote control
- four 1.5V AAA batteries (for remote control)
- the power cable for the projector (EU or UK or USA)
- the reprogrammable remote control manual
- the user and installation manual.

If any accessories are missing, contact your Dealer as soon as possible.

4 INSTALLATION

POSITIONING THE PROJECTOR

Position the projector on a stable, suitable platform or utilise the optional bracket for a fixed ceiling installation.

CAUTION: In the case of ceiling mounting using a suspension bracket, follow the instructions carefully and comply with the safety standards you will find in the box together with the bracket. If you use a bracket different to the one supplied by DREAMVISION you must make sure that the projector is at least 65 mm (2-9/16 inch) from the ceiling and that the bracket is not obstructing the air vents of the projector.

Position the projector the desired distance from the screen : the size of the projected image is determined by the distance from the lens of the projector to the screen and the zoom setting. See ADDITIONAL INFORMATION for more information.

CONTROLLING THE PROJECTOR

The system can be fully controlled using the supplied IR (infrared) remote control handset.

To activate an electric motorised screen a 12 Volt output is provided at the rear of the X3 projector. This can be connected to a screen interface unit, which can be supplied by screen manufacturers.

The output is activated (Voltage: 12 Vdc) when the Projector is switched on and is de-activated (no Voltage output) when the projector is in stand-by mode.

Some manufacturers offer screen-masking systems to help frame the projected image and improve picture contrast.

For rear projection the screen must be translucent. For front projection, we recommend the use of screens with low gain specifications (i.e. 1.3 to 2). The use of high gain screens should be avoided due to their limited viewing angle, which is undesirable for a large audience. Preferably, use a screen with black, non-reflecting borders, which will perfectly frame the projected image. Avoid light shining directly on the screen during projection as this

will reduce contrast and black level detail on the projected image. For the true cinema experience best results are achieved with little or no ambient light.

Furniture and other objects with reflecting surfaces, as well as light coloured walls should be avoided, as they are likely to interfere with the screen's characteristics.

CONNECTING THE VIDEO SOURCES

Connect the cables from the video sources.

To obtain the best performance from the X3 projector, connect the various signal sources using good quality cables designed for video applications (rated impedance 75 Ω).

Ensure that :

- the cables are routed in such a way that they do not present an obstruction to people moving around the room;
- the connectors are inserted carefully to avoid damaging the pins ;
- the cables are not twisted or crushed ;
- when disconnecting the cables the connectors are not violently pulled out of the sockets on the various units.

Video sources (television receivers, VCRs, DVD players, etc.) often feature several outputs. To obtain the best performance from your system, carefully choose which output to use. Generally, the type of signal offering the best picture quality is DVI-D, followed by RGB, Components, S-Video and Composite Video, in that order.

However, the X3 is equipped with an excellent Video Decoder and Deinterlacer and therefore even inferior quality signals will produce high quality results.

VIDEO 1

This input should be connected to a Composite Video signal (CVBS) by means of a cable with an RCA connector.

The connector on the source is usually yellow and is frequently labelled VIDEO.

Although other types of signals are preferable (since they allow better picture quality), this is still the most common type of output, and nearly all television receivers, video-recorders, DVD players, video cameras, etc., are equipped with CVBS outputs.

S-VIDEO 2

This input should be connected to an S-Video signal by means of a cable with a 4-pin mini-DIN type connector.

The corresponding output on the source can be identified by the wording S-VIDEO or Y/C.

Almost as widespread as Composite Video, S-VIDEO is preferable because it offers a clearer and sharper picture.

COMPONENT / RGBS 3 4

These inputs are composed of one set of 5 BNC connectors (3) and a set of 4 RCA connectors (4).

Each set of connectors is suitable for RGB and Component signals. RGB signals can have the following synchronisations : composite sync on the green signal (RGsB), H+V Composite Sync, or separate H/V Sync.

Connect the R, G, B outputs of the source to the respective R, G, B inputs of the X3 projector (paying attention not to invert the positions) and any synchronisation signals to the HV input or the H and V inputs. When connecting the set of RCA connectors use the colours as a guide : connector R is red, G is green, B is blue, H/HV is white and V is black.

By using a suitable SCART to RCA (or BNC) connector adapter cable, an RGB video signal from a source equipped with an SCART connector can be connected to this input.

Component signals are connected to inputs Y, Cr and Cb, taking care to observe the correspondence with the outputs on the source. Since the latter can be labelled in various ways, refer to Table 1 to establish the correspondence between the various signals. The connector colours can also be of help, as shown in the table. Input 3 is dedicated for RGB and YCrCb signals up to 32 KHz only. In fact, in order to guarantee a high image quality, even with not so accurate sources, the input signal is elaborated by specific circuit boards in the X3 Image Processor. The suitable video signal can have a scan frequency of 15KHz (standard video resolution) or 32KHz or more (progressive scan video, high definition video).

Some sources provide the facility to choose between a progressive signal or an interlaced signal. Although in general a progressive signal is higher quality than an interlaced signal, it is often preferable to perform the deinterlacing operation on the X3 system rather than on the source because the X3 is equipped with Faroudja's sophisticated directional correlation deinterlacing technology (DCDi™).

Progressive signals usually provide better quality than interlaced signals, but if the source features both progressive and deinterlaced signal outputs it is good practice to compare the quality of the pic-

tures reproduced by the X3 system in the two cases : deinterlacing performed by the X3 (thanks to Faroudja DCDi™ technology) is often more effective than that performed at the source (typically a DVD player)

GRAPHICS RGB 5

This input should be connected to an RGB-type video or graphic signal using a cable with a DB15HD type connector.

The signal source device (typically a personal computer or game console) must be able to provide separate H/V synchronisation or composite H+V.

The video or graphic signals that can be connected to this input can have horizontal scan frequencies (H-sync) of between 32 and 80 kHz and a vertical frequency (V-sync) of between 48 and 100 Hz. Image resolution can vary between 640x480 and 1600x1200 pixels (VGA, SVGA, XGA, SXGA, UXGA).

DVI-D 6

This input allows you to advantage from the quality of the digital images .

If your source is equipped with a DVI-D output, YCrCb or RGB connect it to this input to exploit the quality of the X3 projector.

HDMI 7

With this input it is possible to integrate the optimal quality of a digital image with a multichannel audio signal.

The HDMI™ (High Definition Multimedia Interface) in fact integrates a multichannel audio signal with the uncompressed high definition video signal.

The interface also allows the exchange between the video source and the X3 video-projector of control data to optimise the quality of the projected image.

The HDMI™ input allows connection to video sources that use the HDCP (High-Bandwidth Digital Content Protection) protocol to protect their contents. This protocol is in fact incorporated in the definition of the HDMI™ technology.

Once the video source has been connected to the HDMI™ input, internal processing by the X3 Image Processor separates the video information from the audio information. This information is then made available via an optical digital output with a female TOSLINK connector in accordance with the S/PDIF standard.

CONTROL (RS232) 8

The system can be controlled via a personal computer or home automation systems by means of the serial port: simply connect this input via a serial cable from an RS232 serial port. On request, your DreamVision distributor will send you a document containing the serial port settings and the list of main commands.

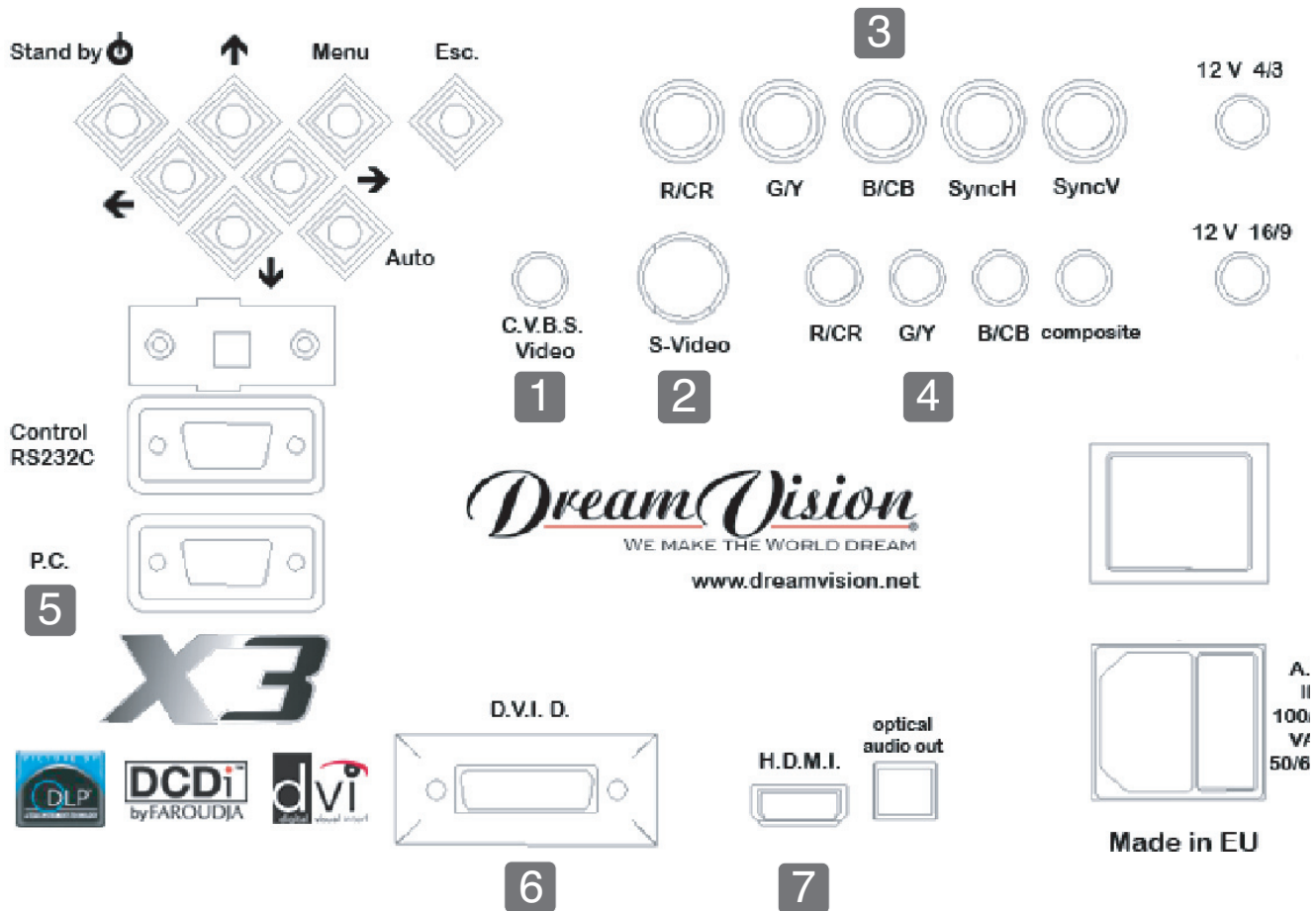


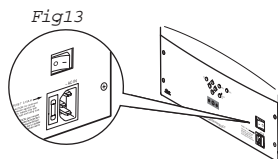
Fig.12

5 SWITCHING ON AND OFF

The X3 projector can be controlled from either the remote control (via the infrared sensors on the Projector) or the keypad located on the rear of the Projector.

Set the power switches to "I"

The Projector switch is on the rear panel (Fig. 13a).



After a few seconds the Projector assume stand-by mode. System status information is provided by two LEDs (green and blue) on the rear of the Projector. Significant status signals are given in Table 3.

If the Error signals are active the system cannot be operated; if the Warning signal is active the system will operate but it may be unable to read certain input signals correctly.

Status	Projector	
	Green LED	Blue LED
Off	○	○
Initialisation	●	●
Stand-by	○	●
On	●	○
Cooling	☀	☀
Caution	☀	○
Error	○	☀

○ : Off ● : On ☀ : Flashing

SWITCHING ON FROM STAND-BY

Switching on the system (Fig.14):

- from the remote control (keys 0-7)
- from the Projector keypad (Up and Down arrow keys).

Typically, the picture will appear after 15-20 seconds. Pressing a key from 1-7 on the remote control selects the corresponding input; pressing 0 selects the input active at the time the system was last switched off.

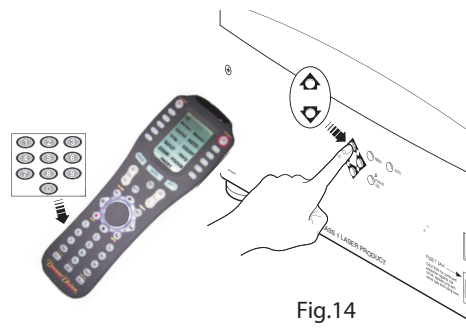


Fig.14

If the system is switched on very soon after it was last switched off, the lamp may fail to come on because it is too hot. In this case just wait a few minutes to allow the lamp to cool.

Switching the system off (Fig.15):

- from the remote control (⏻ key)
- from the Projector keypad (⏻ key).

If you wish to power off the system completely, wait at least two minutes in stand-by before setting the mains power switches on the units to the "O" position or disconnecting the power supply cables. This is to allow the fans in the Projector unit sufficient time to cool the lamp.

In case the Projector unit is shut down (for example due to a shut down of the projector unit by putting the switch in the "O" position or by accidentally unplugging the power cord cable) to re-boot the system it is necessary to shut down the projector and repeat the power-on procedure described in point 1 and 2.

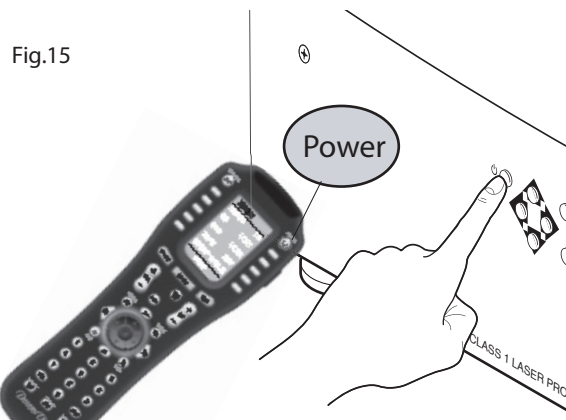
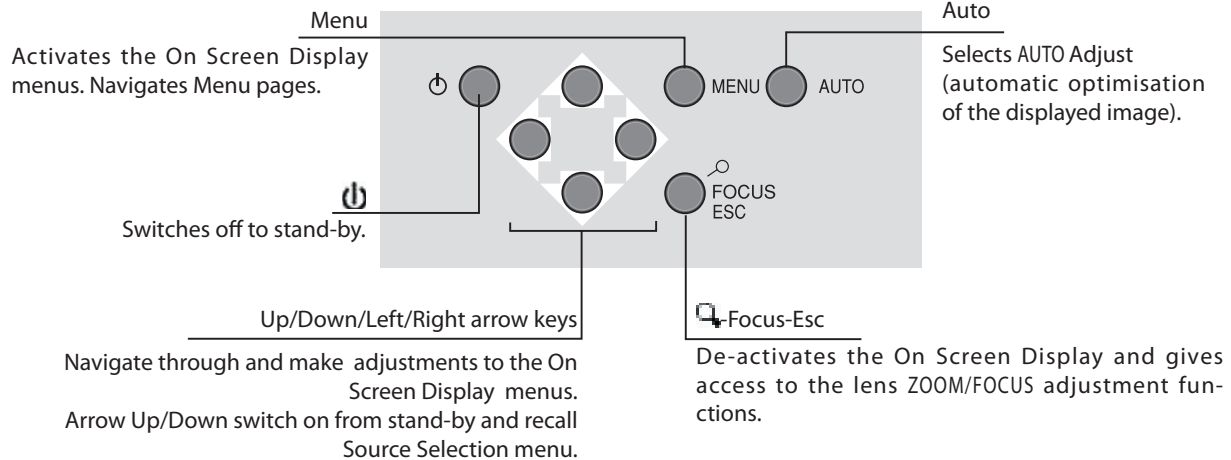


Fig.15

6 KEYBOARD PAD

Eight push buttons, at the rear of the projector, will allow complete operation without the use of the remote control.



7 REMOTE CONTROL

The remote control transmits commands to the system by infrared signals.

There are two infrared sensors, one at the front of the Projector, one at the rear of the Projector.

It is possible to control the projector by pointing the remote control at the screen; the sensor at the front of the projector will pick up the reflected infrared commands. (Fig. 16).

Avoid placing obstructions between the remote control and the infrared sensor at the front of the projector; this will impair the remote control performance.

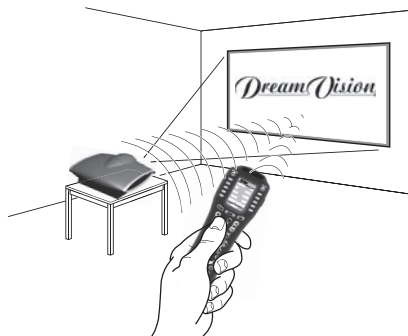


Fig. 16

Insert the batteries, taking care to match the polarity, as indicated in the battery recess of the remote (Fig. 17).

Change the batteries in the remote control if experiencing difficulty in sending commands to the projector.

If the remote control is not to be used for a long period of time remove the batteries. Replace all batteries at the same time; do not replace one new battery with a used battery. If the batteries have leaked, carefully wipe the case clean and replace with new batteries.

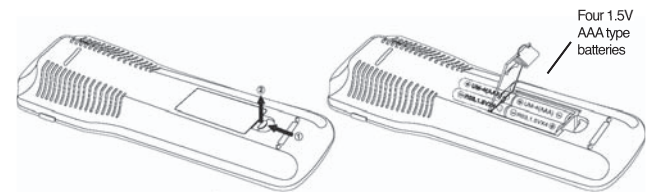


Fig. 17

8 ON SCREEN MENU

All system functions can be activated from the keypad or remote control with the aid of a practical and comprehensive system of on screen menus.

INPUTS

The input selection menu (Inputs) is called by pressing 0 on the remote control and, when no other menu is displayed, using the Up and Down keys on the keypad. To select an input, scroll the list with the Up and Down keys until the desired input is highlighted, then press Right key.

Display of the input selection menu is terminated by pressing the ESCAP key or when the time allowed for displaying the on-screen menu has lapsed (set in the Set-up Menu).

Input 3 can accept RGB and YCrCb signals with a scan frequency up to 32Khz.

Input 4 can receive RGB and YCrCb signals, at 15 kHz, 32 kHz or higher. The association between the input and the type of signal (RGB or YCrCb) is made from the pull-down menu that appears on the right of the < symbol after pressing the Right key (Fig. 18b).

In the pull-down menu it is also possible to choose the hori-

zontal frequency or use the AutoSync feature; in this case the system detects the horizontal frequency signal (15KHz, 32KHz or higher) automatically.

Input 6 is capable of receiving YCrCb or RGB signals coming from DVI-D sources.

The selection should be made from the drop menu following the indications described above.

After selecting the source signal (by means of the Up and Down keys), press MENU+/MENU- to confirm and close the pull-down menu; the value you have just set will be displayed on the right of the < symbol.

As with the other inputs, you can now select the input just set by pressing the Right key.

During the short time it takes to find the signal, a box appears showing the signal requested. As soon as the signal is shown in the box additional information is displayed concerning the video standard (for video signals) or resolution (for graphic signals), and format.

From the SETUP menu it is possible to choose to visualize or not this information, for more details check the SOURCE INFORMATION in MENU section.

Inputs				
1	VIDEO 1	1		>
2	S-VIDEO 2	2		>
3	COMP/RGB 3	3	YCrCb 15kHz	>
4	COMP/RGB 4	4	< RGBS 15kHz	>
5	GRAPH RGB 5	5		>
6	DVI-D 6	6	< YCrCb	>
7	HDMI 7	7		>

Fig. 18a

Inputs				
1	VIDEO 1	1		>
2	S-VIDEO 2	2		>
3	COMP/RGB 3	3	YCrCb 15kHz	>
4	COMP/RGB 4		<ul style="list-style-type: none"> ■ YCrCb AutoSync ■ YCrCb 15KHz ■ YCrCb ■ RGB Auto Sync ■ RGB 15Khz ■ RGB 	>
5	GRAPH RGB 5			>
6	DVI-D 6			>
7	HDMI 7			>

Fig. 18b

MAIN MENU

To access the main menu of the On Screen Display press the MENU key on the keypad or the MENU+ or MENU- key on the remote control.

The main menu is divided into four windows, PICTURE, IMAGE, SETUP and MENU, in which the various adjustments are grouped according to the frequency of use. Use Up and Down keys to select the line corresponding to the adjustment you wish to make (Fig. 19).

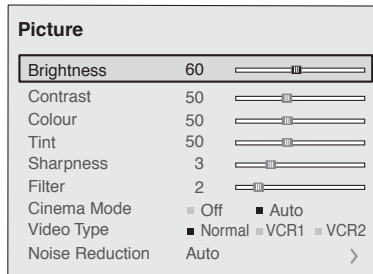


Fig. 19

The various menus only offer the relevant adjustments in accordance with the type of input signal displayed (e.g. certain typical adjustments for video signals, not necessary for graphic signals, do not appear on the menus, and vice versa).

Some adjustments (e.g. BRIGHTNESS and CONTRAST) are associated with a numerical value that can be varied within the set limits using the keys Left / Right. For others (e.g. VIDEO TYPE) you can choose among three options presented on the same line (Left / Right keys).

Other adjustments (marked by the < symbol) provide submenus, which appear as a superimposed window in which the selection is made with the Up and Down keys (Fig. 20).

These submenus are accessed by pressing the Left ← key, while exit and return to the upper level occurs by pressing MENU+/-.

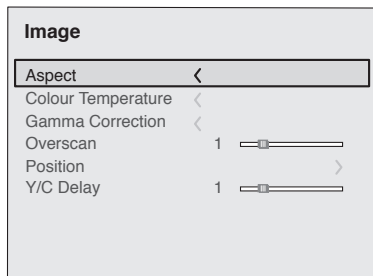


Fig. 20a

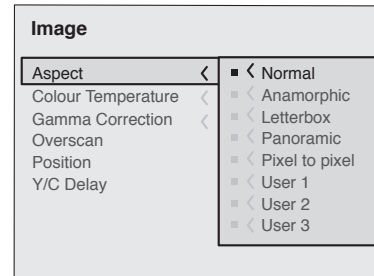


Fig. 20b

Press ESCAP on the remote control or ESC on the keypad to interrupt the menu display or wait for it to disappear automatically after the number of seconds set on the SETUP page.

PICTURE

This menu features the adjustments related to picture quality. Adjustments that are not available for a given input do not appear on the menu. Table 4 summarises the adjustments available for each input. For a complete overview of the on-screen menus, consult the ON SCREEN MENU LAYOUT in the ADDITIONAL INFORMATION section.

BRIGHTNESS

Use this control to adjust the image's black level without affecting white areas. Increasing the value will give more detail in darker parts of the picture. For correct adjustment it may prove useful to display the signal relative to the grey scale within which the black level and the level immediately above it must be separately identifiable. Alternatively use a scene composed of black objects alongside other dark coloured objects.

CONTRAST

Use this control to adjust the image's black level without affecting white areas.

To ensure correct adjustment, it may prove useful to display the signal relative to the grey scale, within which the white level and the level immediately below it must be separately identifiable. Alternatively use a scene composed of well-lit white objects surrounded by light coloured objects with lower level lighting.

COLOR

This control (also called Saturation) increases or decreases the picture colour intensity. When set to zero, colour images will be shown in black and white. Increasing the value, try to find the point at which the colours look natural to you : suitable references include skin tones and grass in landscape shots.

TINT

Controls the purity of the colours. Basically determines the red-green ratio of the picture.

Reducing the value will boost the red contents of the picture, increasing the value will boost the green tones. For this adjustment use a test pattern image with colour bars as a reference. However, remember that the right colours are those which really fit your taste.

SHARPNESS

Use this adjustment to increase and decrease the level of picture detail.

When the sharpness value is reduced the image details appear less pronounced, while increasing the value raises image definition, making the outline of objects sharper.

Note that an excessively high value may result in a "noisy" picture and the edges of objects may be unnaturally defined.

SHARPNESS MODE

This allows you to select the type of processing associated with sharpness adjustment. In the case of a progressive or interlaced video signal VIDEO mode is advisable; with PC graphic signals use GRAPHIC MODE.

FILTER

This allows you to select the mode in which the input signal is processed. Selecting the most appropriate value for a given input signal ensures the best horizontal and vertical definition and makes the picture sharper.

CINEMA MODE

In AUTO the deinterlacer recognises if the video signal source is a movie film (obtained from a Telecine device with 3:2 or 2:2 pull-down) and applies a deinterlace algorithm optimised for this type of signal.

If the video signal source is not identified as a film, or if you select NO the deinterlacer applies a Motion compensated algorithm optimised for video camera signals.

VIDEO TYPE

Activates a filter to improve stability of pictures from video recorders or DVD players. To toggle between NORMAL, VCR1 mode and VCR2 mode press VCR on the remote control.

NOISE REDUCTION

This adjustments allows to choose the filter value for noise reduction purposes.

As soon as this option is selected on the menu, the image is divided in two parts.

In the left side the image is not altered by the filter, in the right part the filter is activated.

This allows you to compare the effect of the filter.

It is possible to deactivate the filter (NOT ACTIVE), to use the automatic adjustments (AUTO) or to manually select (MANUAL) the value suitable for the image with the VALUE adjustment.

Associated to the NOISE REDUCTION there is the possibility to use the specific function (FLESH TONE CORRECTION) to make skin tone more natural. Often the use of noise reduction filter slightly degrades the image in those areas where skin tones are visible. With the use of this function it is possible to maintain an excellent image quality throughout the entire projected image.

Table 4

Adjustments	Inputs					
	Video S-Video	RGBS 15kHz Y/Cb 15kHz	RGBS	Y/Cb	Graphic RGB	DVI-D HDMI™
Brightness	●	●	●	●	●	●
Contrast	●	●	●	●	●	●
Colour	●	●	-	●	-	-
Tint	○	●	-	●	-	-
Sharpness	●	●	●	●	●	●
Sharpness Mode	-	-	●	●	●	●
Filter	●	●	-	-	-	-
Cinema Mode	●	●	-	-	-	-
Video Type	●	●	-	-	-	-
Noise reduction	●	●	-	-	-	-
Flesh tone correction	●	●	-	-	-	-

○ Present only if the Video Standard is NTSC

IMAGE

This menu features adjustments relating to picture position, aspect ratio, etc.

ASPECT

This adjustment allows you to change the dimensions and aspect ratio (relationship between width and height) of the displayed image. There are five preset aspects available and three personalised aspects (with user-settable parameters). You can select a different aspect for each source : the selected aspect ratio will be automati-

cally called the next time the relative source is called.

You can also select the required aspect ratio by repeatedly pressing the **RATIO** key, or by pressing **RATIO** and a numerical key (1...8).

The following aspects are available.

NORMAL: projects the image occupying the full height of the screen while maintaining the aspect ratio of the input signal. When the input signal aspect ratio is 4:3 black vertical bands are displayed on the right and left of the picture.

ANAMORPHIC: allows a 16:9 picture to be displayed correctly.

LETTERBOX: serves to display 4:3 letterbox image (with source signal having black bands above and below the picture) so that it fills the 16:9 screen and maintains the correct aspect ratio.

PANORAMIC: this aspect stretches the 4:3 image, slightly cropping the upper and lower parts.

Panoramic is ideal for displaying a 4:3 image on the 16:9 screen of the Display.

PIXEL TO PIXEL: this aspect displays the image as it is input without adapting it to the screen.

The image is projected in the centre of the screen and if its horizontal and/or vertical dimensions are smaller than the display, it is bounded by vertical and/or horizontal black bands.

USER 1, 2, 3: When none of the preset formulas are suitable, the User formulas are available, with the facility for continuous horizontal and vertical adjustment of picture size.

SCREEN CONTROL

If an appropriate screen-masking interface is connected to the 12V output socket it is possible, for each aspect chosen, to re-frame the screen to a variety of aspect ratios and screen sizes (please refer to the screen manufacturer's manual).

COLOR TEMPERATURE

Changes the colour balance of the image.

Colours can be adjusted towards the red end of the spectrum (low colour temperature values - expressed in degrees Kelvin) or the blue end (high values).

Colour temperature can be selected with three preset values: **HIGH** (corresponding to approx. 9000 degrees Kelvin), **MEDIUM** (approx. 8000 degrees Kelvin), **LOW** (approx. 6500 degrees Kelvin) and one **PERSONAL** setting controlled by the user with separate adjustments for **RED**, **GREEN** and **BLUE**.

In the personal colour adjustment for all three colours it is possible to set an Offset value and Gain.

The Offset adjustments have an impact of the low IRE values, while the Gain adjustments impact of the higher IRE values.

Generally, the **HIGH** value is more suitable for displaying graphic images, **MEDIUM** and **LOW** for video images.

These adjustments are reserved for expert users since there is a risk of obtaining results that impair projected image quality.

POSITION

Use this adjustment to position the image vertically and horizontally. Determines the aspect ratio of the projected image.

These parameters do not normally require adjustment because the system checks the input signal and automatically sets the most suitable values.

However, if the image is not perfectly centralised it may prove useful to request the system to repeat the input signal analysis and image positioning, calling the automatic control procedure from the **AUTO** button on the remote control or keypad. When this procedure is called it is helpful to have a white or light coloured background on the screen in the current picture.

FREQUENCY/PHASE

These adjustments, available for progressive signals and for signals from PC, ensure correspondence between the number of pixels making up the signal and the number of pixels making up the projected image.

These parameters do not normally require adjustment because the system checks the input signal and automatically sets the most suitable values.

However, if the image appears disturbed (loss of position within the equidistant vertical bands or instability and lack of sharpness on the narrow vertical lines) it may help to prompt the system to repeat the input signal analysis and determination of the best parameters by calling the automatic adjustment procedure with the **AUTO** key on the remote control or on the keypad.

If the automatic procedure fails to have the required effect, enter the frequency and phase values manually and approach the screen sufficiently to observe the effects of the adjustments.

Y/C DELAY

In the case of Video and S-Video signals, it may be necessary to correct horizontal colour misalignment within the projected image. For a given video standard (e.g. PAL or NTSC) the stored value does not normally require further fine-tuning, unless the source or connection cable has changed.

Adjustments	Inputs					
	Video S-Video	RGBS 15kHz YCrCb 15kHz	RGBS	YCrCb	Graphic RGB	DVI-D HDMI™
Position	•	•	•	•	•	-
Aspect	•	•	•	•	•	•
Frequency	-	-	•	•	•	-
Phase	-	-	•	•	•	-
Colour Temperature	•	•	•	•	•	•
Gamma Correction	•	•	•	•	•	•
Overscan	•	•	•	•	•	•
Y/C Delay	•	•	-	-	-	-

Table 5

SETUP

The setup menu contains less frequently used adjustments that may be required during installation (e.g. On Screen Display language selection or the display of Test Patterns).

ORIENTATION

Select the option that best describes the installation i.e. desktop front, ceiling front, desktop rear and ceiling rear.

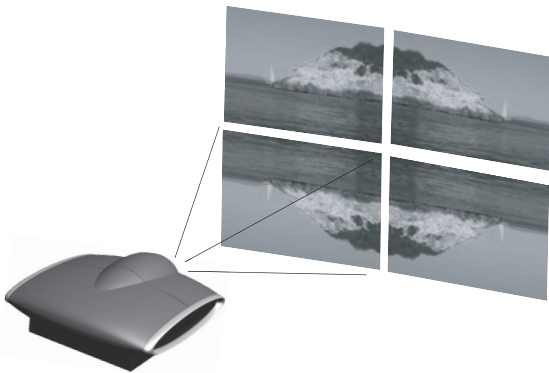


Fig. 21

HORIZONTAL/VERTICAL KEYSTONE

To obtain maximum quality of the projected image, we recommend the installation of the projector on a level platform parallel and central to the screen.

Adjust the feet underneath to obtain a level position, lining up the base of the projected image to the base of the projection screen (Fig. 22).

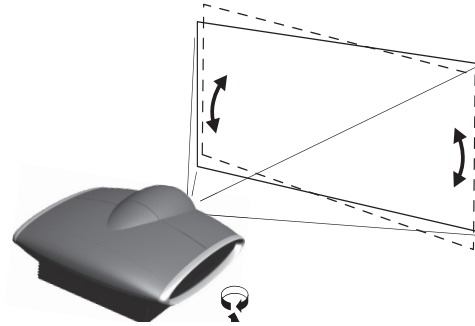


Fig. 22

If the projected images needs to be centred, the LENS SHIFT (see next paragraph) adjustment allows the projected image to be moved vertically and horizontally, in relation to the centre of the screen (Fig. 23).

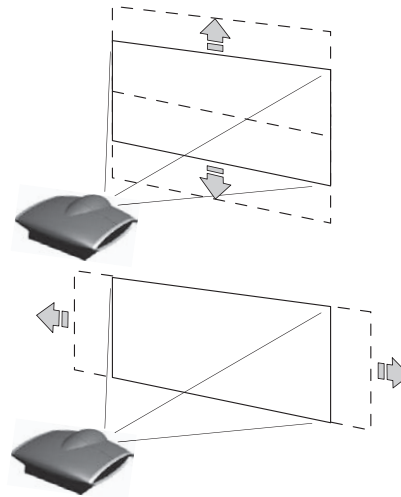


Fig. 23

In the event you are unable to centre the image within the screen area, tilt the projector until the image is correctly positioned. Any keystone error can be removed by the Keystone adjustment in the Set up menu.

The keystone adjustment helps to compensate possible horizontal tilts of the projector.

LENS

The ZOOM adjustment impacts on the motorized zoom lens allowing to increase or decrease the dimension of the projected image. The FOCUS adjustment impacts on the motorized lens focus, allowing to obtain the highest definition on the projected image, an accurate focus setting should allow the viewer to distinguish each pixel that create the image one from another.

The LENS SHIFT adjustment allows to move horizontally (keys Left and Right) and vertically (keys Up and Down) the lens, in order to center the image.

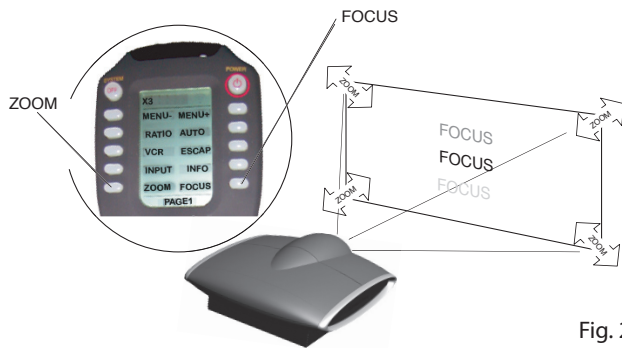


Fig. 24

In the initial phase of installation the F1 and F2 keys serve as optical zoom and optical focus (Fig.24).

LAMP POWER

If your room is especially dark, the images from the X3 system could result excessively bright. In order to enjoy wonderful images, the ECOMODE function activation allows to reduce the power used to feed the lamp. In this way, the brightness of the image will be adapted to your projection conditions and a longer life lamp will be guaranteed.

POWER ON

If active (AUTO) allows to power up the system directly from the power feeder, once the initializing phase is completed.

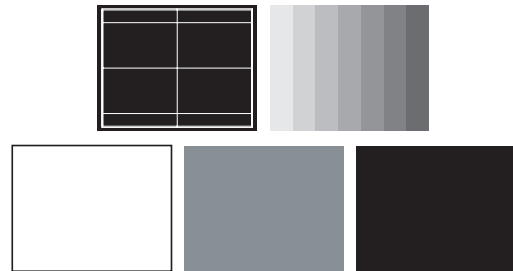
If not active (STAND-BY) once the initializing phase is completed the system remains in a stand-by mode waiting to receive the power

on command from the remote control or the key pad.

TEST PATTERNS

Displays a series of five test patterns, useful for the installation of the projector.

Press Up and Down keys to browse pattern.



FACTORY DEFAULTS

Reconfigures the projector to original factory settings except Position, Orientation, Y/C Delay, Zoom and Focus.



MENU

LANGUAGE

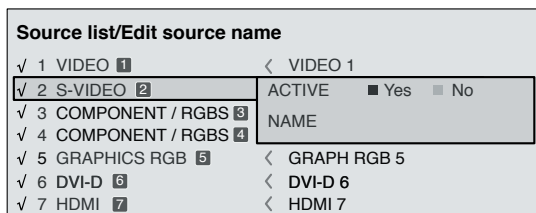
Lists the languages available for the On Screen Display menus.

SOURCE LIST

In order for the X3 to be more flexible, the following described functions allow to modify the input selection menu making it more user friendly.

The main window shows all the inputs available on the X3 projector. If one or more inputs are not utilized, it is often helpful to blank them from the input list (accessed with the 0 key).

Once the input has been chosen, in the drop menu that appears by pressing the Left key, it is possible to activate the source (Fig. 25). The exclusion or activation of the source will automatically renumber the remaining active inputs.



The inputs with an active video signal (visible in the input selection menu) are marked with a check symbol.

It can be also helpful to identify the input with a name chosen by the user (for example with the name of the connected source) rather than with the signal type.

Once chosen to have the input visible, in the drop menu, by selecting the Name option it is possible to rename the source in use.

This will make it easier to remember the source connected to a specific input. You can use up to 12 alphanumeric letters to name the source (for more details check the "Insert text" section)

Insert text

You will be able to insert text easily and rapidly by accessing the text insertion menu (fig. 26)

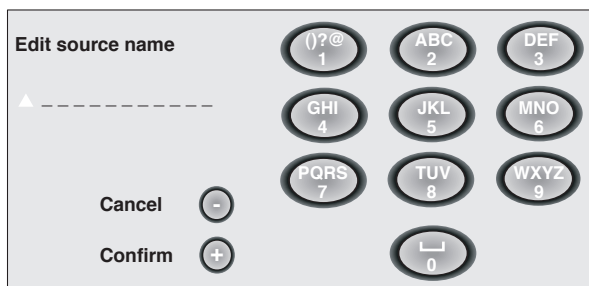


Fig.26

The text insertion mode remains the same if text is being inserted for the first time or if a previously inserted name is being edited. The letter insertion can be done in any available position (represented by horizontal lines).

Use the Left and Right keys to move between letters either left or right respectively.

Press the numeric key matching the letter (Fig. 26), the first click of the key selects the first letter, the second click the second letter

and so on.

The available letters are shown in the text insertion menu.

Once one letter has been inserted, to insert the following one it is necessary to move with the cursor in the next right position with the Right key of the remote control, repeat this procedure to insert other letters.

Use the Up key to switch from small case to capital letters and viceversa.

Any mistake can be deleted with the Down key once it has been positioned on the wrong letter.

Once the text insertion process is finished, it can be confirmed and saved by clicking the MENU+ key.

If you want to delete the modifications use the MENU- key of the remote control.

F1/F2 KEYS

This allows to assign different functions to the remote control keys, named F1 and F2.

The window is made of 6 options, once for each line and by two columns showing the F1-F2 keys. The choice between F1 and F2 is made by the Left and Right keys of the remote control; the function given to F1 and F2 is chosen with the Up and Down keys.

The function delivered by the key is memorized by the intersection on the line and column.

In the following window are described the 6 options

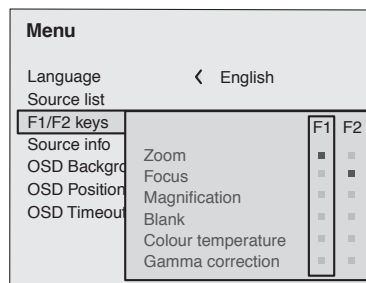


Fig.27

Zoom

Allows to access the optic zoom, where the Left (←) and Right (→) keys allow to increase or decrease the size of the projected image.

Focus

Once selected, the Left (←) and Right (→) keys allow to focus the image.

Magnification

Allows you to select the area to be viewed and then magnify the projected image. The degree of enlargement is selected in Zoom mode (identified by a magnifying glass in the centre of the image) using the Left (←) and Right (→) keys. The area of the picture to be enlarged is selected in Pan mode (symbol in the centre of the picture) using the Up, Down, Left, Right arrow keys. You can toggle between Zoom and Pan mode by pressing the F1 and F2 keys on the remote control.

Blank

Blanks the active video signal producing a completely black screen. Once pressed the key an indication of a few seconds on the OSD will confirm its activation. A click of any other key of the remote control allows to restore the previous settings.

Color temperature

The following click of the key F1 and F2 allows to choose between the different color temperatures available. HIGH, MID, LOW, USER.

Gamma correction

The following click of the key (F1 or F2) allows to choose between the different gamma curves available.

SOURCE INFORMATION

When active (YES) each source change will show the information related to the signal. If not active (NO) there will be no information on the selected source.

OSD BACKGROUND

Determines the type of background for the On Screen Display.

OSD TIMEOUT

Use this adjustment to set the display time after which the On Screen Display will disappear.

OSD POSITION

Allows the On Screen Display to be positioned in a particular area of the projected image. The OSD can be positioned using the arrow keys for fine adjustments or keys 1...9 on the remote control to select one of 9 preset positions.

MEMORIES

The main parameters of the image may be saved in distinct groups of values (known as 'Memories'); these parameters can subsequently be applied all together by way of a single command.

There are 3 distinct Memories (Memory 1, Memory 2, Memory 3) for each of the 14 signal types managed:

	1 VIDEO	
	2 S-VIDEO	
3 COMP/RGB(YCrCb 15KHz)		3 COMP/RGB(RGB 15KHz)
3 COMP/RGB(YCrCb 32KHz)		3 COMP/RGB(RGB 32KHz)
4 COMP/RGB(YCrCb 15KHz)		4 COMP/RGB(RGB 15KHz)
4 COMP/RGB(YCrCb)		4 COMP/RGB(RGB)
	5 GRAPHICS RGB	
	6 DVI-D (RGB)	
	6 DVI-D (YCrCb)	
	7 HDMI	

making a total of 42 different available Memories.

The image parameters that can be saved/recalled by the Memories management system are the following:

Image	Picture
BRIGHTNESS	ASPECT
CONTRAST	COLOR TEMP. GAIN (R/G/B)
COLOR	COLOR TEMP. GAIN OFFSET (R/G/B)
TINT	COLOR TEMP.
SHARPNESS	OVERSCAN
FILTER	GAMMA
SHARPNESS MODE	
VIDEO TYPE	Setup
NOISE REDUCTION	LAMP POWER

Some of these parameters may not be available for certain inputs or certain input signals, as indicated in Tables 4 and 5.

The menu page for the Memories management functions is activated by pressing the MEMO key on the page 2 of the remote control.

To reach the page 2, you have to press the PAGE key of the remote control.

The operations that can be performed on each memory selected are described here below.

Save a memory

To save the current values of the image parameters in Memory 1, use the Up and Down arrow keys to move to line '1' and then open the pull-down menu by pressing the Left arrow key (Fig.29). Then select the option 'Save current settings'. To confirm that the operation has been completed successfully, the message Current settings saved in Memory 1 is displayed at the bottom of the screen and the letter 'S' appears to the left of the memory name. The same procedure is used to save parameters in Memories 2 and 3.

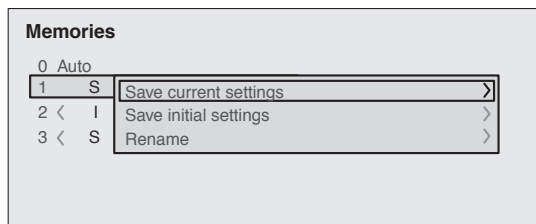


Fig.29

Recall a memory

To recall a Memory, select the desired line and press the Right arrow key. The parameters saved in the selected Memory will be applied to the image displayed and a message will appear to confirm the operation Memory 1 recalled. The Memory recalled will be associated with the source and signal type, and will be automatically recalled every time that particular source and signal type combination is selected.

Save default settings

To restore the original values to a previously modified Memory, select the line corresponding to the Memory in question and open the pull-down menu (Left arrow key (← key)). Then select the line Initial settings saved in Memory 1. To confirm that the operation has been completed successfully, the message Memory 1 initialised is displayed at the bottom of the screen and the letter 'I' appears to the left of the name of the memory.

Rename a memory

It is possible to assign a name to each Memory. To assign a name (with a maximum length of 12 alphanumeric characters) to a Memory, select the option 'Rename' from the corresponding pull-down menu. Enter the text following the procedure indicated in paragraph SOURCE LIST.

Restore Current Settings

On entering the MEMORIES menu, a copy of the current settings is saved in a temporary menu (labelled with 0 - AUTO). Once one or more memories have been recalled, you can restore the settings that were effective at the moment the Memories menu was accessed

by selecting 0 - AUTO. However, this operation must be completed before the MEMORIES menu page disappears (30 seconds after the last operation commanded from the remote control or the keypad). The next time it appears, the temporary memory will contain new information that takes into account any Memories selected the penultimate time the 'Memories' page was accessed.

Memory 0 (- AUTO) can be used even when you do not wish to enable the Memories management function for the signal currently in use. Once Memory 0 has been selected, when a source is chosen, the settings that were effective at the time the Memory was previously recalled will be automatically applied.

INFO

Displays the current status of the projector and information concerning the projected video/graphic signal.

This function is displayed on pressing INFO on the remote control (or, in the absence of the On Screen Display, the Right arrow key (→) key on the remote control).

QUICK MENU

The quick menus provide access to the main adjustments that affect image quality, without calling the main On Screen menus.

BRIGHTNESS, CONTRAST, COLOUR, TINT, SHARPNESS and FILTER adjustments appear at the bottom of the screen one after the other when the Up and Down arrow keys are pressed.

MESSAGES

The following messages may appear during operation of the system :

No signal

The system does not recognise any signal applied to the selected input. In this case:

- Make sure the selected input is connected to a video or graphic signal and that that source is functioning correctly.
- Check the condition of the cables used to connect the system to the various sources.
- Make sure the video or graphic signals supplied by the source are compatible with the system's technical specifications and, in particular, with those of the selected input.

Out of Range

This message appears when either the resolution or the vertical/horizontal frequency of the input signal exceeds system specifications (e.g. a QXGA graphic signal) or when an input is supplied with an incompatible signal (after setting the components input to YCrCb 15kHz a progressive signal is connected).

Substitution lamp

If the lamp hours exceed the 90% of the life lamp, at every switching on , a brief message appears on the screen to remember the need of replacing it in a short time.

If the lamp life is greater than 100% the message above persists until the ESCAP key is pressed.

9 CLEANING AND MAINTENANCE

The Projector does not require internal cleaning. There are no user serviceable parts inside the projector. Please refer all service requirements to qualified personnel.

Cleaning the projector's cover:

Use a soft slightly damp cloth. Do not use abrasive cleaners, solvents or other harsh chemicals, as this will damage the finish of the cover. Avoid direct cleaning of the rear panel's screen-printing.

Cleaning the lens:

The lens may be cleaned with a very soft, non-abrasive small brush, in order to remove dust particles. Alternatively, use a soft dry cleaning cloth (of the type used for camera lens cleaning) to remove fingerprints and grease marks.

10 TROUBLESHOOTING GUIDE

No power (Green and red LED are OFF)

- Check the power switch at the rear : it must be in position I.
- Check if the power cable has been connected correctly to a working socket.
- Check the power socket fuse, at the rear of the projector.
- Replace the fuse on the mains socket with an identical type (T5AH) (Fig. 2).
- Should the problem persist, seek authorised technical assistance.

The lamp is not coming on

- Allow a few minutes pause between switching off and turning on again (from stand-by). This will allow the lamp to cool down sufficiently.
- If the lamp doesn't come on – even though the projector has had sufficient time to cool down – seek technical assistance from your Dealer.

No image

- Check that the selected input is actually connected to a active video or graphic signal.
- Check that the above source actually works.
- Verify compatibility of video/graphic signals with the technical specifications of the projector.

- Check the integrity of cables used to connect various sources.
- Check the cooling air inlets or air outlets on the units are not obstructed and the room temperature is below 35°C (95°F).

Image is disturbed, unstable or noisy

- Verify compatibility of video/graphic signals with the technical specifications of the projector.
- Check the integrity of cables connecting projector to various sources.
- If the signal source is a terrestrial broadcast (via a VCR) check that the receiving channel has been correctly tuned in and that the aerial system is in good working order.
- Should the problem be present with a signal coming from a video-recorder, ensure that the videotape is an Original "first generation" copy and in good condition.
- Adjust the VCR's tracking control for optimum picture performance. Ensure the VCR mode is active in the Picture menu.

Incomplete image along borders (vertical and horizontal)

- Compare compatibility of video/graphic signals and technical specifications of your projector.

- Press AUTO on your remote control or AUTO on keypad to execute automatic adjustments.
- Adjust the horizontal and vertical position of projected image by selecting POSITION on the IMAGE ADJUSTMENTS menu.
- Adjust the width and height of image, selecting ASPECT in the IMAGE ADJUSTMENTS menu.
- Adjust the Overscan value in the IMAGE/OVERSCAN menu.

Image too dark, too pale or unnaturally coloured

- Verify compatibility of video/graphic signals with technical specifications of your projector.
- Go to PICTURE menu, select and regulate any of the following, accordingly : CONTRAST, BRIGHTNESS, COLOR, and TINT.
- If necessary, reset the COLOR TEMPERATURE and GAMMA CORRECTION (found on the IMAGE ADJUSTMENTS / ADVANCED SETTINGS menu).

Graphic image with poor quality vertical detail

- Verify compatibility of video/graphic signals with technical specifications of your projector.
- Press AUTO on your remote control or AUTO on keypad to execute automatic adjustments.

- Adjust FREQUENCY and PHASE parameters, found in the IMAGE ADJUSTMENTS menu, to optimise vertical detail of the projected image.

Video Image showing colour misalignment on vertical details

- Verify compatibility of video/graphic signals with technical specifications of your projector.
- Adjust Y/C DELAY settings in the IMAGE ADJUSTMENTS / ADVANCED SETTINGS to reduce colour misalignment. For best results use an external colour bar test pattern source.

Remote control does not work

- Check the batteries and for correct polarity.
- Ensure that the area between the infrared sensor (front of projector) and the remote control is free of obstruction.
- Ensure that infrared sensors (front and rear of projector) are not exposed to intense light levels.

11 OPTIONAL ACCESSORIES

You can purchase the following optional accessories at your Dealer:

- Ceiling Bracket Kit.
- Type of lens

Up to six types of lenses are available to accommodate different throw distances and your specific installations. See ADDITIONAL INFORMATION for more details on throw distances and the dimensions of the image projected. To change the lens, contact always your nearest dealer.

Use only original, or DreamVision approved, accessories.

CAUTION: for ceiling installation, by means of suspension bracket, carefully follow the instructions and safety instructions recommended by the Manufacturer in the bracket's literature.

12 ADDITIONAL INFORMATION

A TECHNICAL SPECIFICATION

PROJECTOR

OPTIC

Projection system: triple panel DMD™ HD2+(1280x720 pixel)

Color Filter Dichroic Filter (50mmx50)

Contrast ratio: 3000:1 (objective G100)

Projection lens: "zoom", focus, zoom, and horizontal/vertical shift motorized

Lamp: 250W

Lamp life time: 1500 hours (average value measured in the laboratory under optimal conditions; it can be sensibly reduced by the unit misusing)

Type Lens	GR-1 (FWA)	G-80	G-100	G-200	G-400	G-500
Throw Ratio	0.64	1.2— 1.44	1.44—1.8	1.8—2.4	2.4—3.6	3.6— 5.6

Projection distance (between the screen and the center of the lens)											
Type Lens	GR-1 (FWA)	G-80		G-100		G-200		G-400		G-500	
Image width	Fixed	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max
1.3m (51")	-	1.6	1.9	1.9	2.4	2.4	3.1	3.1	4.7	4.7	7.3
1.7m (69")	1.1	2.1	2.5	2.5	3.1	3.1	4.2	4.2	6.3	6.3	9.8
2.2m (86")	1.4	2.6	3.1	3.1	3.9	3.9	5.2	5.2	7.8	7.8	12.2
3.3m (130")	2.1	4.0	4.8	4.8	6.0	6.0	8.0	8.0	12.0	12.0	18.5
4.4m (175"m)	-	5.3	6.4	6.4	8.0	8.0	10.6	10.6	15.9	15.9	24.8
5.5m (220"m)	-	6.7	8.0	8.0	10.0	10.0	13.3	13.3	20.0	20.0	31.0
6.6m (260")	-			9.5	-	11.9	15.9	15.9	23.8	23.3	37.1
7.8m (300")	-					14.0	18.6	18.6	27.9	27.9	-

TECHNICAL SPECIFICATIONS

Control:	Panel (keypad), remote control
Power supply cable: Supply:	(EU, UK e US); length 2m from 100 to 240 Vac, tolerance +/- 10% , frequency from 48 to 62 Hz
Consumption:	340 W max
Fuse:	T 5 A H, 5 x 20 mm
Dimensions of projector:	mm (LxAxP)
Weight of projector:	28 kg
Operation temperature:	10 to 35°C
Transportation temp.:	-15 to 55°C
Storage temperature:	-15 to 55°C
Humidity:	20% a 95% humidity non-condensing
Safety:	EN 60950
Transportability:	desktop equipment
Compatibility:	EN 55022 Class B EN 55024 EN 61000-3-2 EN 61000-3-3
Transportation:	IEC 68-2-31, IEC 68-2-32

Input signals:

- 1 COMPOSITE VIDEO (CVBS)
 - RCA type connectors, gold-plated
 - 1,0 V_{pp} / 75 Ω, negative synchronisation
- 1 S-VIDEO (Y/C)
 - 4-pin mini-DIN connectors
 - Y: 1,0 V_{pp} / 75 Ω, negative synchronisation
 - C: 0,286 V_{pp} / 75 Ω, [NTSC nominal burst level]
 - 0,3 V_{pp} / 75 Ω [PAL, SECAM nominal burst level]
- 1 COMPONENT (Y/Cr/Cb/H/V) - RGBHV
 - 1 set of 4 RCA connectors, gold-plated
 - 1 set of 5 BNC type connectors, gold-plated
- Components signal
 - Y: 1,0 V_{pp} / 75 Ω, negative or 3-level synchronisation
 - Cr,Cb:0,7 V_{pp} / 75 Ω
- RGB signal
 - R,B:0,7 V_{pp} / 75 Ω
 - G: 0,7 V_{pp} / 75 Ω, separate H/V Sync or H+V Sync
 - 1,0 V_{pp} / 75 Ω, negative or 3-level synchronisation
 - H,V: TTL positive or negative, 0,3-5 V_{pp} / 1 kΩ
- 1 RGBHV (analogue RGB)
 - female DB15HD connectors

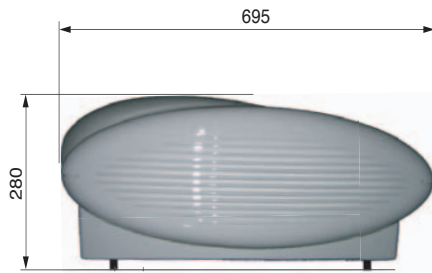
R,B: 0,7 V_{pp} / 75 Ω
 G: 0,7 V_{pp} / 75 Ω, separate H/V Sync or H+V Sync
 1,0 V_{pp} / 75 Ω, negative or 3-level synchronisation
 H,V: positive or negative TTL, 0,3-5 V_{pp} / 1 kΩ

- 1 DVI (digital RGB)
 - DVI-D female connector
- 1 HDMI™

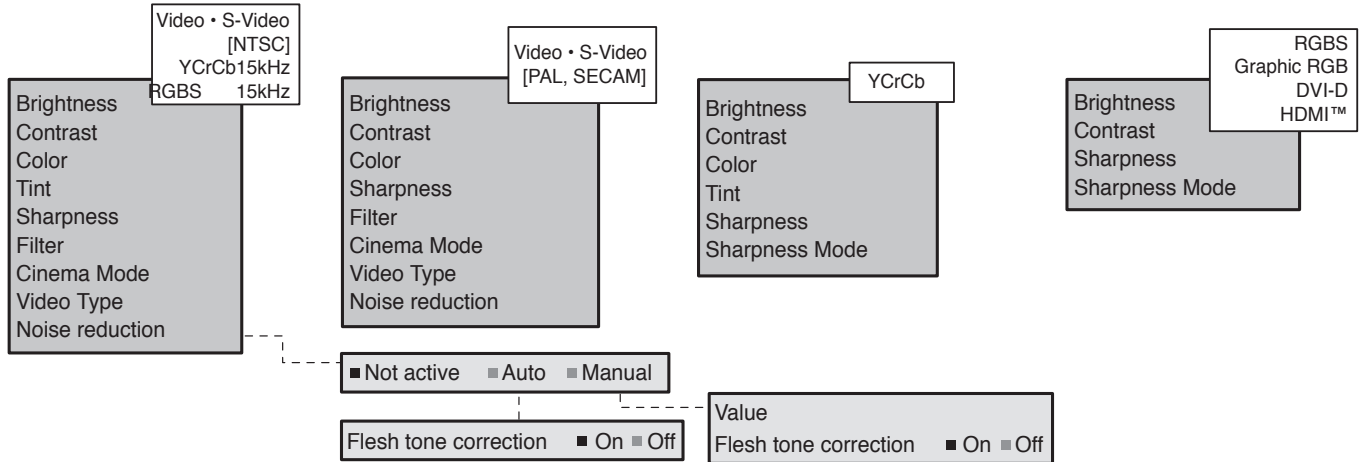
Control:	Remote control, via RS232 from PC or home automation devices
Horizontal frequency:	from 15 to 110 kHz (up to UXGA, 85 Hz)
Vertical frequency:	48 -100 Hz
Video standards:	automatically selected (PAL B, G, H, I, M, N, 60, SECAM, NTSC 3.58 and 4.43)
High definition video:	ATSC HDTV (480p, 720p, 1080i, 1080p)
Graphic standards:	VGA, SVGA, XGA, SXGA, UXGA
Deinterlacer:	Faroudja chipset, DCDI™, 3:2 pull down sequence conversion
Colour temperature:	from 5000 to 9300 °K (three presets and one user settable)
Control:	infrared remote control, RS232 serial (DB9 connector, female)
Outputs:	- 2 12-V jack connector outputs (1 active with system powered on, 1 active with 16:9 aspect ratio selected) - 1 Optical S/PDIF audio output Toslink connector

B DIMENSIONS

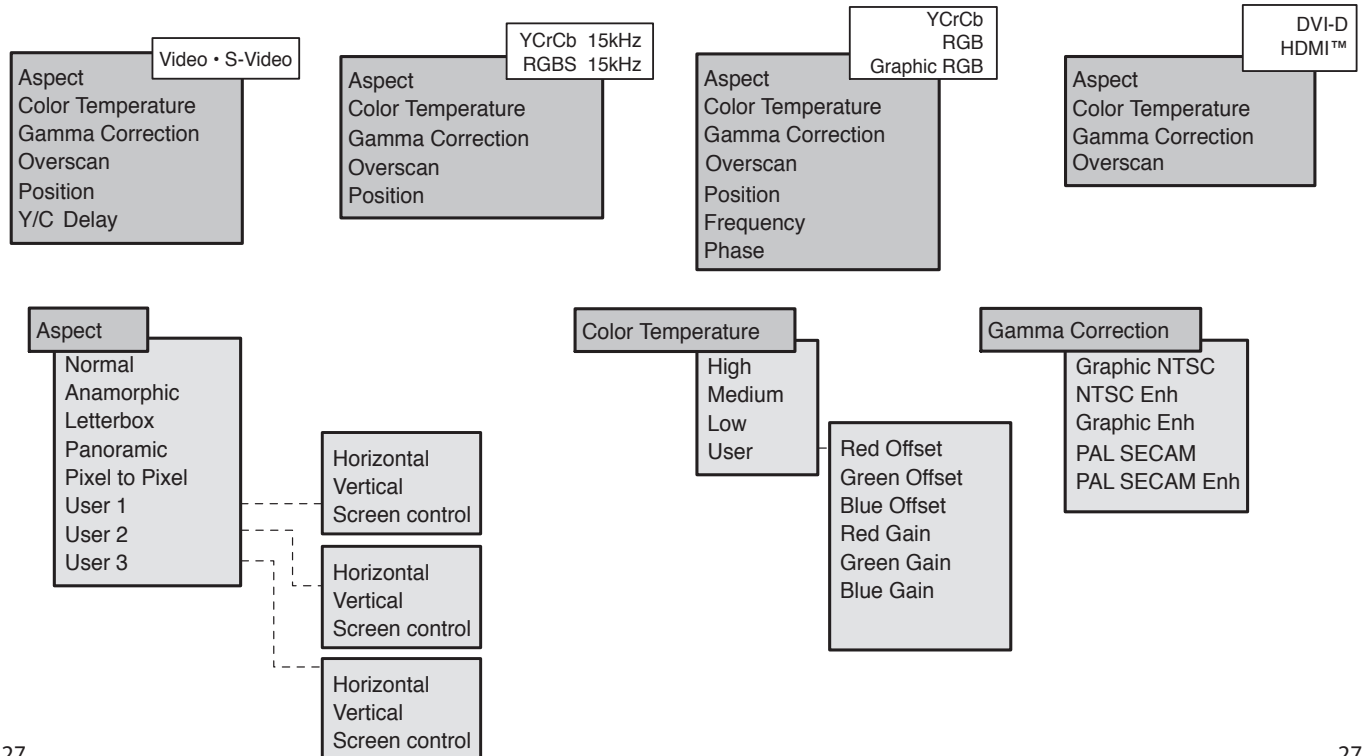
PROJECTOR



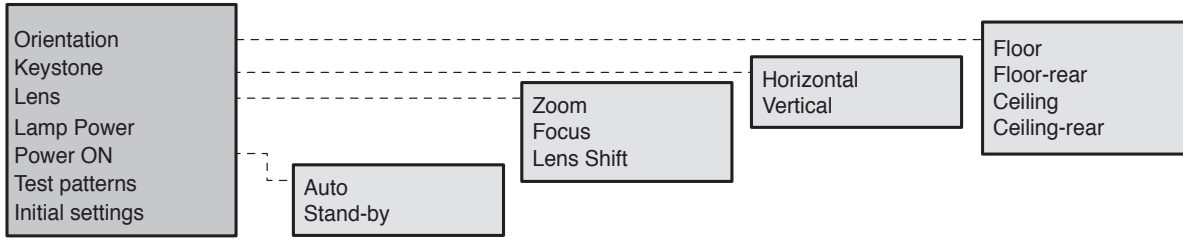
Picture



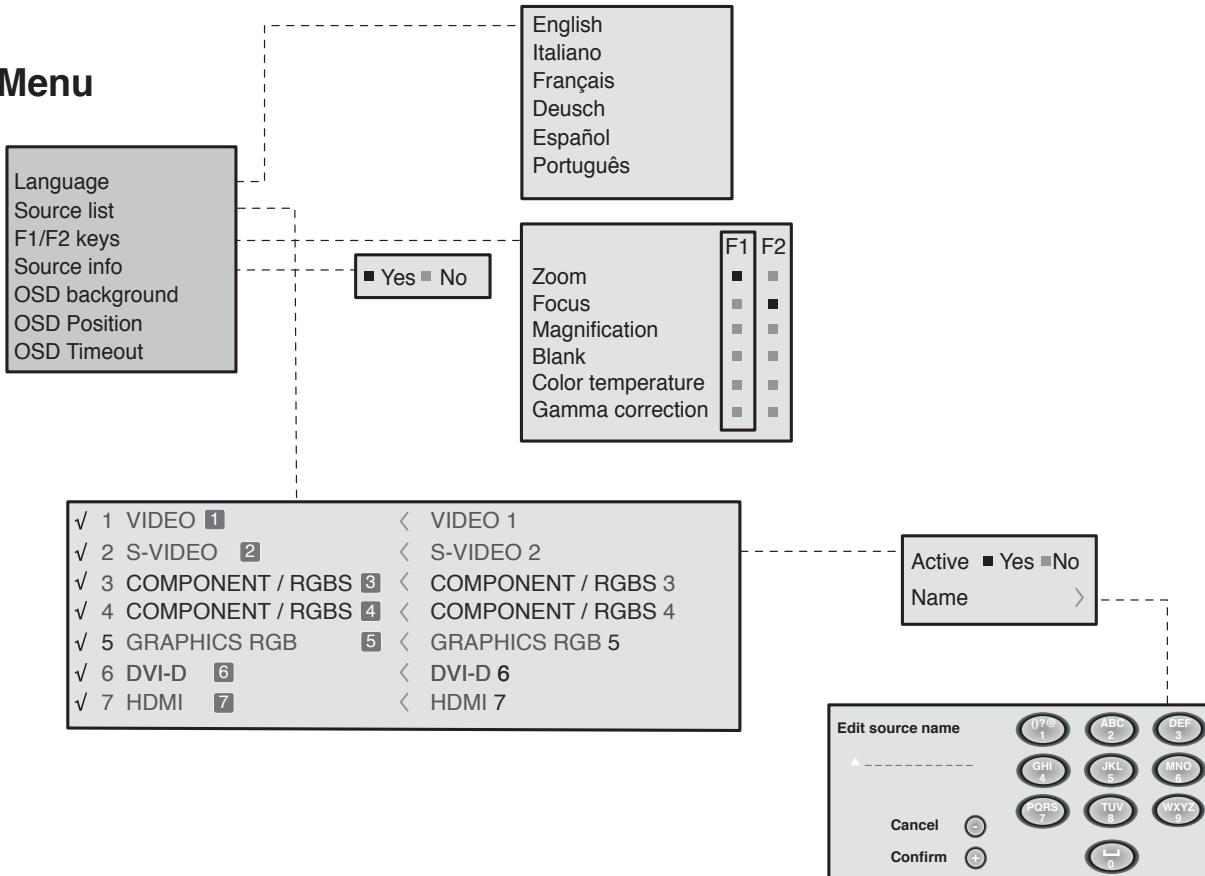
Image



Setup



Menu



Memories

Memories
0 Auto
1< S MEMORY 1 >
2< S MEMORY 2 >
3< S MEMORY 3 >

Save current settings >
Save initial settings >
Rename >

Edit memory name

Cancel (-)
Confirm (+)

()?@ 1	ABC 2	DEF 3
GHI 4	JKL 5	MNO 6
PQRS 7	TUV 8	WXYZ 9
		0

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