Present Your Great Ideas Anywhere with Sharp's Micro-Portable Projectors
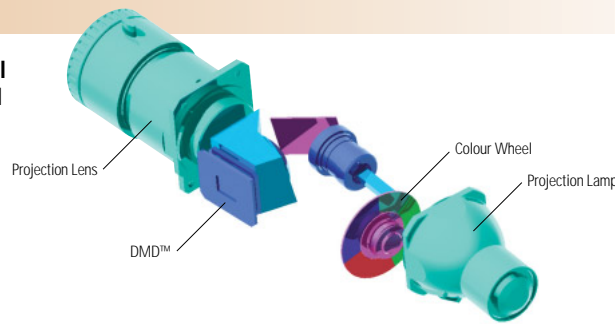
Newly Designed Original Engine

Slim, Lightweight and Compact Design from Sharp Original Straight Optical System

With the DLP™ system and Sharp's original straight optical engine, the PG-M20X/M20S achieves an amazingly slim (7.6cm), lightweight (2.6kg) and compact (4.2 litre) body. Bring it with your mobile notebook PC anywhere your business takes you.

Sealed Optics

The optical mechanism of DLP™ system projectors is sealed in its structure, preventing dust, dirt and smoke from entering the body to a much greater degree than with LCD projectors. This enables longer use and reduces maintenance costs. These projectors are ideal for schools or other educational and training facilities, or for entertainment and leisure establishments such as sports bars or karaoke bars.

Sharp's Original Straight Optical System

Projection Lens
DMD™
Colour Wheel
Projection Lamp

High Brightness and High Contrast

The new 12° DMD™ chip has a wider tilt angle than conventional chips, providing significantly improved optical efficiency and excellent contrast ratio. Plus, the DDR (Double Data Rate) DLP™ Engine together with the newly developed air bearing motor achieves 3x colour wheel rotation speed, reducing colour breaking phenomena common with previous generation DLP™ projectors.

- ■ 1900 ANSI Lumen Brightness (PG-M20X), 1300 ANSI Lumen Brightness (PG-M20S)
- ■ Brightness Switchover Function: 1900/1520 ANSI Lumen Brightness Switchable (PG-M20X), 1300/1040 ANSI Lumen Brightness Switchable (PG-M20S)
- ■ 1000:1 High Contrast
- ■ Low Fan Noise: 37dB
- ■ 2000-Hour Lamp Life, among the longest in micro-portable projectors
- ■ Superior image quality with Fujinon™ optical lens system

True XGA / SVGA Image Quality

Advanced Compatibility with High-End PCs, Workstations and DTV

Incorporating proprietary Sharp LSI technology, the PG-M20X/M20S works with powerful PCs and workstations used for specialised applications, such as, medical, prepress DTP, CAD and CAM.

- Horizontal Frequency: PG-M20X: 15-126kHz, PG-M20S: 15-102 kHz
- Vertical Frequency: PG-M20X: 43-200 Hz*, PG-M20S: 43-160 Hz*
- Pixel Clock: PG-M20X: 12-230 MHz, PG-M20S: 12-120 MHz
- Compatible with Sync. On Green/Composite Sync. Signals-Compatible with workstations (SUN, SGI, IBM, HP)
- HDTV/DTV Compatible: 480I/480P/720P/1080I
- PG-M20X: UXGA (1,600 x 1,200), SXGA+ (1,400 x 1,050), SXGA (1,280 x 1,024) and Macintosh 21" (1,280 x 1024) Compatible in Advanced Intelligent Compression PG-M20X: True XGA (1,024 x 768), SVGA, VGA and Macintosh (19"/16"/13") Compatible

PG-M20S: SXGA+, SXGA, XGA and Macintosh 21"/19" Compatible in Advanced Intelligent Compression
PG-M20S: True SVGA, VGA, VESA and Macintosh (16"/13") Compatible

*Temporary noise may be visible with vertical frequencies above 100Hz if OSD functions are activated.

Advanced Intelligent Compression

Higher resolution pictures can be compressed while keeping high quality to fit into the panel resolution.

Enhanced Up-Scaling

Lower picture resolutions can be up-scaled to the high image quality of projector panels.

CV-IC (Computer & Video Integrated Composer) System II Technology
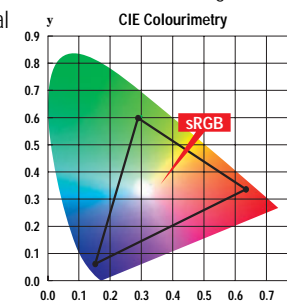
New Progressive Mode

The Progressive Mode of the previous I/P Conversion still had jagged lines and unclear images. The new Progressive Mode compensates for this interference, to provide a natural and smooth picture in the progressive mode.

Still image viewed in progressive mode

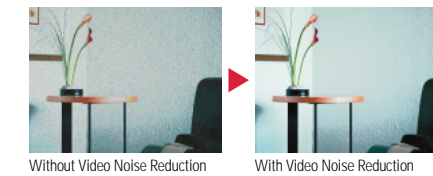Previous I/P Conversion
New Progressive Mode

sRGB Compatibility

sRGB is an international standard of colour reproduction to reproduce the same natural colour tones as computer displays. With sRGB compatibility the PG-M20X/M20S faithfully reproduces the colour tones, hues and gradations as the original picture on a PC screen.
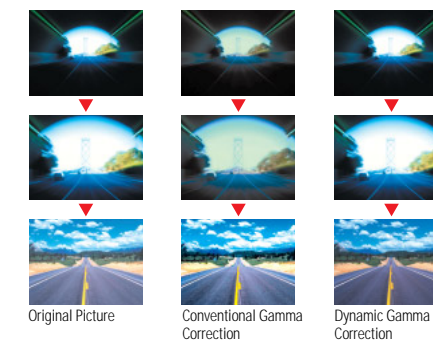
CIE Colourimetry
sRGB

Video Noise Reduction

Allows for a clear image even with noisy video source signals.
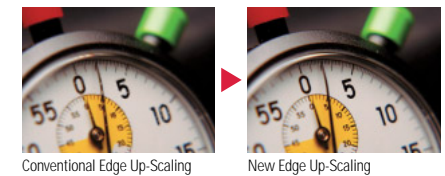
Without Video Noise Reduction
With Video Noise Reduction

Dynamic Gamma Correction

Dynamic Gamma Correction optimises Gamma correction frame by frame in real time, providing a crisp and vivid image.

Original Picture
Conventional Gamma Correction
Dynamic Gamma Correction

New Edge Up-Scaling

Reduces jaggies and unnatural glare when up-scaling slanted lines, enabling sharper quality images.
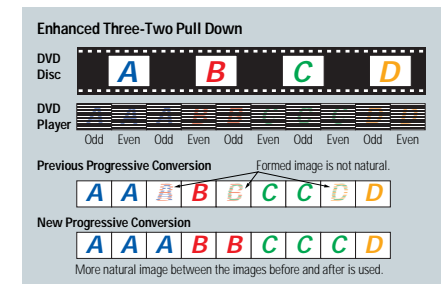
Conventional Edge Up-Scaling
New Edge Up-Scaling

New Intelligent Compression

New Intelligent Compression makes faint, fine lines and letters clearer and sharper, suitable for project graphics, graph materials and PC menus, with also almost perfect legibility.

Enhanced Three-Two Pull Down

Using the Film Mode, the PG-M20X/M20S can beautifully reproduce movie film recorded in 24Hz progressive format.

Enhanced Three-Two Pull Down

DVD Disc: A B C D
DVD Player: Odd Odd Even Odd Even Odd Even Even Odd Even
Previous Progressive Conversion: A A A B C C C D — Formed image is not natural.
New Progressive Conversion: A A A B B C C C D — More natural image between the images before and after is used.

Easy Operation

Active Digital Keystone Correction

The Active Digital Keystone Correction compensates for picture distortion when images are projected at an angle. This system smoothes out jaggies on keystone images and compresses the image keeping the 4:3 aspect ratio.

High-Speed Auto Response Adjust (ARA)

Automatically and quickly synchronises in 2 to 3 seconds the projection settings, pixel clock, phase and horizontal and vertical positioning. This ensures a quick and smooth start to presentations.

Sharp Original Pull-Down Menu GUI (Graphical User Interface)

The easy-to-use icon-based GUI shows how to adjust pictures, languages and other settings. Plus, single adjustment items can be displayed for setting without concealing the screen with menu bars.

Normal Menu
Single Adjustment Item

Other Outstanding Features

- ■ Advanced Picture-in-Picture Function
- ■ Theft Deterrent (System Lock)
- ■ Auto Search Function
- ■ Monitor Output Capability with Optional Cable
- ■ Power Save Mode
- ■ High Quality Video Picture Circuits (Digital Comb Filter, Digital Noise Reduction, Colour Transient and Y Delay, Colour Temperature Adjustment)
- ■ Presentation Support: Enlarge, Freeze, Startup Images (Default and Custom Images), Resize Function

* The briefcase and PC pictured are not included.