Liteye LE-720A Head Mounted Display
The LE-720A is a high-performance, rugged, low-profile Head-Mounted Display (HMD) utilizing OLED microdisplay technology. This HMD is packaged around a colour-corrected, non-pupil-forming optic in the smallest form factor possible, providing amazing image quality via our proprietary electronics with long eye relief. Control is via in-line buttons in the cable, which are very easy to use.
Mounting options include our Rugged quick-release multi positional rail mount system for helmets with rails, and our Orbit mount system for users not wearing helmets. (*Custom mounts can also be provided*).
All our mounting systems allow for comfort and relaxed viewing while wearing. Built to MIL-STD and sealed to IP67, this unit is designed to be deployed in harsh, hostile conditions and environments.
Available in full-colour or green SVGA/VGA resolution or monochrome video (RS170 / CCIR). HDMI also available via external ruggedized box.
The LE-720A and Rail mount are completely field proven and NSN numbered:

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
<th>NSN</th>
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<tbody>
<tr>
<td>1-720-611</td>
<td>LE-720A Head Mounted Display</td>
<td>5980-01-656-7095</td>
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<tr>
<td>1-SRDMD1</td>
<td>Rail Mount System</td>
<td>5895-01-656-7086</td>
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## Technical Specifications

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<th>Specifications</th>
<th>Details</th>
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<tr>
<td><strong>Display Technology</strong></td>
<td>Full Colour AMOLED (800x3 pixels) x 600 lines</td>
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<tr>
<td><strong>Resolution</strong></td>
<td>800 x 600 and 640 x 480 4:3 aspect ratio</td>
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<tr>
<td><strong>Colour Pixel Pitch</strong></td>
<td>15µm</td>
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</table>
| **Luminance (MAX)**                                | Several Display types available:  
Colour: >400 cd/m²  
White: >2000 cd/m²  
Green: >5500 cd/m² |
| **Contrast**                                        | >100:1                                                                |
| **FoV (Diagonal)**                                 | 28° @ 800 x 600                                                       |
| **Transmission**                                   | Non see-through                                                       |
| **Optics**                                         | Polarizing beam splitter                                              |
| **Eye Relief**                                     | >22mm                                                                 |
| **Exit Pupil**                                     | Non-pupil forming                                                     |
| **Diopter Adjustment**                             | Fixed                                                                 |
| **Weight**                                         | 65g without mount                                                     |
| **Interface**                                      | Cable gland style at HMD, cable terminated with Amphenol SCE-B-01K07-14PN |
| **Standard Cables**                                | Amphenol SCE-B-06K07-14SN to standard 15-pin VGA and USB, 300m or 750mm in length |
| **Analogue Video Rates**                           | 800 x 600 (SVGA 56Hz to 85Hz)  
640 x 480 (VGA 60Hz to 85Hz) |
| **Analogue Video Inputs**                          | RS-170 / CCIR                                                        |
| **Control**                                        | Via 3 buttons located in the cable                                   |
| **Shock**                                          | 4 ft to concrete                                                      |
| **Temp: Operating**                                | -40°C to +65°C                                                        |
| **Temp: Storage**                                  | -50°C to +80°C                                                        |
| **IP Rating**                                       | IP67                                                                  |
| **Immersion**                                      | 1 metre 10 mins                                                       |
| **Additional Options**                             | See-through version, custom cable lengths and button position, custom connectors, custom cables |
Liteye LE-720A Head Mounted Display features / further details

HMD itself with rubberised eyecup for a better fit up against eye protection

Multi-positional rail mount
**Mounting**
The LE-720A with Rail mount can attach to any helmet which has rails.
Liteye LE-720A Head Mounted Display features / further details

Mounting Cont.
And positioned anywhere along the rail
Mounting Cont.

Liteye LE-720A Head Mounted Display features / further details
Positioning
Multiple positioning points on the mount for maximum comfort

The LE-720A has four flexible points of adjustment allowing the user to find the most comfortable position when in use. They also allow the viewer to be moved out of the line of sight quickly.
Liteye LE-720A Head Mounted Display features / further details

Stowage

Normal position – in use

Stowed at the front, stowed at the rear or anywhere between
Liteye LE-720A Head Mounted Display features / further details

Component parts

- LE-720A HMD
- Rail Mount
- Battery box for RS-170 / CCIR input
- Attached cable with in line control buttons
- Cable terminated with Amphenol SCE-B-01K07-14PN
- 1-6014 cable for connection to computer
Display adjustments via in line control buttons
Brightness
Contrast
Image Flip
Input selection
Soft On/Off
Factory Reset
All settings are stored after 2 seconds
Summary

The LE-720A with Rail mount is a very rugged and in service product that features our revolutionary patented optics and sophisticated low-power proprietary electronics, providing the user with unparalleled image quality that will survive in the harshest environments.

For the Dismounted Soldier our displays are tough, reliable, field proven and allow him to view information and data the way it’s meant to be seen.

Applications include:
• Tactical C4I
• FMV for situational awareness
• UAV/UGV
• Augmented reality
• Driver’s vision aid
• Remote viewing terminal
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