

Optical Design



BrightVu® | Enduring Luminance

- Maintains specified luminance for 10 years, with NO loss of brightness over time
- Includes interface / controller modules and multiple temperature sensors
- Auto-brightness adjustment based on GeoVu™ embedded firmware



BestVu™ | Image Optimization

- Ensures optimum image quality in all lighting conditions (full sun, cloud coverage, dusk night, etc.)
- Dynamically adjust black level, gamma values, and backlight luminance
- Algorithm based system tied to GeoVu™ for region / location



LifeVu™ | Future Proofing

- 10 year product life (2x industry standard)
- Modular architecture allows for upgrades of core components and integrated peripherals as new technology comes to market



PolVu™ | Polarized Sunglass Visibility

- Ensures complete image visibility without anomalies when viewed through polarized sunglasses
- Ensures picture clarity when viewed from extreme off-angles
- Not applicable on 55" UHD and 98" models in portrait orientation



Operational Enhancement



Dynamic Vu® | Block Dimming

- Autonomous, dynamic block dimming of LED backlights every 8-16 milliseconds
- Dramatically improves color saturation and contrast
- Reduces backlight power consumption, heat generation, extends backlight life to over 10 years



GeoVu™ | Local Optimization

- GPS data algorithm used to automatically adjust brightness and optimize image
- Real-Time data based on time of day, seasonal fluctuations
- Eliminates false readings by physical light sensors that may see shadows from nearby objects: (trees, buildings, vehicles, etc.)



AmpVu®, VoltVu® WattVu™ | Energy Monitoring

- Monitors AC line current, voltage, wattage, and kWh power
- Dynamically sheds power load to prevent power supply overcurrent and tripped circuit breakers
- Automatically identifies poor connections of site primary wiring



QuietVu™ | Noise Dampening

- New fan designs and software algorithms keep maximum noise level limited to 60-62 dbA at 1 meter
- Quietest outdoor display in the industry

Mechanical Design



CoolVu® | Thermal Management System

- Dual-loop thermal management system keeps electronics and optics sealed from ambient air and contaminants
- Ensures full performance in ambient environments of temperatures up to 50°C / 122°F in direct sunlight
- No air filters required and only limited preventative maintenance per Owners' Technical Manual



ToughVu™ | Cover Glass

- Multi-layer cover glass over LCD with high transmission and vandal resistance
- Anti-Reflective (AR) treatment on both sides of glass minimizes mirror and haze reflection



ReadyVu™ | Integration Ready

- Capacity inside display chassis to house, power, and cool peripheral devices
- Remote pre-loading of OS and Content Management Software (CMS by others)
- IP address configuration and end-to-end communications established to customer's NOC



Remote Management



SureVu® | Video Verification

- Real-time hardware monitoring of every video frame to ensure:
 - The image is changing (not stalled)
 - The video is not black
- Abnormal behavior can be addressed via automatic power cycle on media player



StatusVu® | Data & Diagnostics

- Local, self-monitoring of 150+ data / operational parameters accessible via secure web interface, including:
 - IP connectivity status, backlight luminance, fan speeds, video status, temperatures, etc.
- Automatically sends alerts to NOC for notification and action



LockVu™ | Sealed Unit Confirmation

- Electronic sensors to detect when door assemblies are not properly closed, latched, and locked
- Automatically sends alerts to NOC for notification and action



ShockVu™ | Impact Detection

- Electronic sensors detect shock or impact to the unit due to vandalism or other damage
- Automatically sends alerts to NOC for notification and action



RemoteVu® | Remote Recovery

- Remote or automatic reboot of media player or modem to restore expected operation
- Remote disk / image recovery via BIOS-level tools (if enabled on media player)

