

## JUMP EV Charging Station - Maintenance Plan of Management (MPoM)

During the life of the asset, JOLT shall:

- Undertake a routine maintenance visit to clean all visible of all Electric Vehicle Chargers and Additional Structure, in accordance with and using recommended cleaning products from the manufacturer of the Electric Vehicle Chargers and Additional Structures;
- Hold the necessary materials to replace all branding and customer service signage that is unable to be cleaned or is no longer fit for purpose at the routine maintenance visit;
- Undertake the routine maintenance visit in a manner that does not interfere with services to the public or introduce an unacceptable environment risk or safety risk to the public;
- Remove graffiti from all visible faces of the Electric Vehicle Chargers and additional structures;
- Make safe the Electric Vehicle Charger and Additional Structure site within agreed timeframe of notification in the event of the Electric Vehicle Charger and Additional Structure site becoming a safety risk to the public because of structural damage, including glass breakage. Electric Vehicle Charger and Additional Structure shall be completely repaired within agreed additional timeframe;
- Repair defects to the Electric Vehicle Charger and Additional Structure that do not create a safety risk to the public (excluding graffiti) at the next scheduled routine maintenance visit;
- Immediately notify the Council of any urgent maintenance activities undertaken that are not routine in nature.

### Customer Experience and Information

During the life of the asset, JOLT shall:

- Provide 24/7 communication channels for users, including a clearly advertised telephone number on their website, app and devices. JOLT must have a complaint handling process addressing the manner in which it will respond to queries and complaints, which shall be made available for inspection upon request by the Council.
- Make available to users of the Electric Vehicle Chargers the terms and conditions of use of which promote responsible and legal use, public safety and good behaviour.

### Incident reporting

During the life of the asset, JOLT shall:

- Notify and provide reports on any known incidents and injuries resulting in hospitalisation or paramedic attendance of a user or third party.

### Screen Maintenance

JOLT's electric vehicle charging infrastructure features LG-MRI BoldVu® LED screens. LG-MRI specify a comprehensive framework to operate and maintain the screens throughout the life of the asset. These include:

- Air Intake area of the BoldVu® Product must be kept free of debris and any matter that blocks air flow into the BoldVu® Product.
- The BoldVu® Product should remain powered during exterior maintenance of the BoldVu® Product
- BoldVu® Product Vandal Glass should be cleaned with a foaming cleaner approved for glass.

- Painted surfaces of the BoldVu® Product should be cleaned with a BoldVu® Product approved for use on painted metal surfaces
- While not recommended, if a Pressure Washer is utilized for cleaning the exterior of the BoldVu® Product:
  - Water should not be aimed into or around the Heat Exchanger/Open Loop Fan Cavity.
  - Chlorinated Water must not be used when cleaning the Exterior of the BoldVu® Product.

## **LG-MRI BoldVu® Product Features**

JOLT utilises LG-MRI BoldVu® products within each JUMP EV Charging Unit. This product includes a range of mechanical, optical and operational design features which optimise the long-term performance and safety of the asset. These enhancements include:

### **Mechanical Design**

#### ***CoolVu® | Thermal Management***

- Multi-patented, dual-loop thermal management system that keeps electronics and optics sealed from exposure to ambient air and contaminants • Inseparably integrated into the mechanical architecture of the display
- Ensures full performance in ambient environments of temperatures between -40°C~50°C (-40°F~122°F)
- No air filters, no resulting periodic maintenance; preventative maintenance per Operations Manual is recommended

#### ***ToughVu® | Outdoor Proofing***

- Multi-layered, laminated cover glass with high transmission and vandal resistance
- Anti-Reflective (AR) treatment on both sides of glass minimizes mirror and haze reflection
- Designed and/or certified to IP66 standard
- No additional vandal-proofing or environmental enclosure necessary

#### ***ReadyVu™ | Internal Integration***

- Capacity inside display chassis to house, power, and cool peripheral devices
- Easy peripheral integration grants ability to ship as a turnkey solution with pre-configured media player and connectivity device, which may include:
  - OS license and Content Management Software (by others)
  - IP address configuration with end-to-end communications established to customer Network Operations Center

#### ***SAM® | Service Access Module***

- Modular design allows for in-field replacement of individual components (i.e. power supply, fan)
- Perform on-site service without removing the display from the installed position

#### ***EcoVu® | Environmentally Conscious Design***

- No CFCs or freon, no mercury in LED backlight
- No use of materials that require scheduled replacement - no waste • Long system life for increased sustainability
- Power efficient design

### **Optical Design**

#### ***BrightVu® | Enduring Luminance***

- Maintains specified luminance for 10 years, without fading 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.)
- Correction and dynamic adjustments of black level, gamma values, and backlight luminance
- 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

#### **PolrVu™ | Polarized Glasses Visible**

- Ensures complete image visibility without visual obstructions when viewed through polarized sunglasses
- Ensures picture clarity when viewed from oblique angles

### **Operational Enhancement**

#### **DynamicVu® | Block Dimming**

- Autonomous, dynamic block dimming of LED backlight
- Improves colour saturation and contrast
- Reduces backlight power consumption and heat generation, extends backlight life

#### **GeoVu™, WeatherVu™ | Location-Based Optimization**

- GPS location and weather data algorithm used to modify BestVu™ parameters
- Uses historical and real-time data to modify decision parameters (weather, time of day, sun position, etc.)
- Eliminates false readings by physical light sensors that may see shadows from nearby objects (trees, buildings, vehicles, etc.)

#### **AmpVu®, VoltVu®, WattVu® | Energy Monitoring**

- Monitors line current, voltage, and wattage to report power consumption
- Dynamically sheds power load to prevent tripped circuit breakers when available power fluctuates
- 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 for longer than a specified duration
  - Video resolution is correct
  - Errant behavior is addressed via configured power cycle on media player

#### **StatusVu® | Data & Diagnostics**

- System reporting of 150+ data / operational parameters accessible via secure web interface, including:
  - IP connectivity status
  - Backlight luminance (desired vs. actual)
  - PCB temperatures

- Fan speeds
- Video status
- Power metrics

***RemoteVu® | Remote Recovery***

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