Application Reference Manual for Smart Camping

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1. Introduction

This reference manual provides detailed instructions for using the application for semi-automatic tent setup. The application guides you through the processes of selecting the setup area, placing poles, adjusting protective cloths, and setting up lighting for a comfortable and safe camping experience.

2. Interface for Semi-Automatic Tent Setup

2.1 Setup Area Selection

Description: This section helps you identify the ideal location for setting up the tent, taking into account terrain and environmental data.

- **Step 1**: Open the application and navigate to the interactive map.
- **Step 2**: Review the available data on the map, such as ground stability, humidity, and sun exposure.
- **Step 3**: Move the pointer on the map. The system will provide real-time suggestions for the best tent site.
- **Step 4**: Select the desired site by clicking on it.

2.2 Pole Placement Guidance

Description: After choosing the site, the application provides instructions to accurately place poles so the tent remains stable.

- **Step 1**: After selecting the site, follow the instructions for placing the poles.
- **Step 2**: Adjust the angle of the poles according to the on-screen guidelines.
- **Step 3**: The system will provide feedback on the accuracy of the placement.
- **Step 4**: Adjust the pressure and angle until you receive confirmation that the placement is correct.

3. Interactive Placement of Protective Cloths

3.1 Cloth Selection and Placement

Description: This section allows you to place protective cloths that provide shelter from the weather.

- **Step 1**: Go to the cloth placement section.
- **Step 2**: Select and drag the virtual cloth to the desired position over the tent.
- **Step 3**: The system may suggest cloth adjustments based on weather conditions, such as wind direction.
- **Step 4**: Decide whether to apply the system's suggestions.
- **Step 5**: Confirm the placement. The system will automatically position the cloths accordingly.

4. Lighting Adjustment

4.1 Lighting Adjustment Based on Environmental Conditions

Description: This section enables you to adjust the tent's lighting according to environmental conditions.

- **Step 1**: Open the lighting section in the application.
- **Step 2**: The system will suggest adjustments to brightness or color based on current conditions, such as nighttime settings.
- **Step 3**: Select the desired brightness level.
- **Step 4**: Choose the desired color or lighting effects, such as pulsating lighting for a more atmospheric experience.
- **Step 5**: The system will execute the commands and automatically adjust the lighting.

4.2 Customized Event Lighting

Description: This option allows you to set up lighting for special events or group activities.

- **Step 1**: Choose the special event lighting option from the available settings.
- **Step 2**: Select specific colors and effects to create the desired atmosphere.
- **Step 3**: The system will automatically configure the LED lights according to your preferences.