**PURCHASE SPECIFICATIONS FOR THE CONTROL & MONITORING UNIT**(FOR S4GA RADIO CONTROLLED EQUIPMENT)

MODEL: UR-201

Control & Monitoring unit Specification

Control & Monitoring Unit (CMU) provides User with the ability to remotely control and monitor S4GA Helipad Lighting (light model SP-401). It provides remote control over the lights from the Trailer, ATC Tower, pilot radio (on defined 118-136 MHz frequency) and over cellphone (GSM-based).

Control & Monitoring Unit shall allow for:

* Remote control and monitoring for Helipad Lighting System and other S4GA radio controlled equipment,
* 3-way remote control over helipad lighting:
* From the UR-201 Unit , manually – by using knobs located on the control unit front panel,
* Via Air-Band Radio: frequency range 118-136 MHz,
* Via GSM Phone (voice call or SMS),
* Independent control (activation and change of brilliancy) over minimum 3 separate groups of helipad lighting (for example FATO, TLOF, Taxiway Lights),
* Automatic Alarm SMS: in case of light’s critical failure (e.g. lack of wireless control over the light or low battery) – user will automatically receive alarming SMS informing about critical failure.

Control & Monitoring Unit shall offer the following features:

* Rechargeable back-up battery providing minimum 24 hrs of continuous operations   
  (with all functions operations at all times),
* Power supply via 90-240 VAC,
* Detachable antennas,
* Externally mounted (on the high mast) antenna for optimal radio range,
* Immediate and simultaneous on/off control of the helipad lights,
* Grouping entire helipad lighting/equipment in at least 3 major groups   
  (controlled separately),
* Control of entirely lighting system or separate groups of lights,
* Selecting preferable operating modes such as NVG, dusk-till-dawn, remote (allows for remote activation of lights) or flash,
* Ability to remotely activate the system via VHF, GSM and manual switches,
* Minimum 3-step intensity level of group of lights,
* Setting timer for remotely activated lights,
* Built-in circuit breaker protecting against short circuit / overload,
* Built in antennas lighting strike arresters,
* Built-in transportation fuse,

**Wireless Control Range**

The system shall be capable of reliable wireless control up to a 1.400 meters line-of-sight distance between the controller and the closest helipad light.