



## AR22 PROTOCOL

# Light Communication

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CONFIDENTIAL ASSIGNMENT

### **TOP-DEFENSE CLASS 3 DOCUMENT**



## LIGHT COMMUNICATION PROTOCOL

The AR22 protocol must be implemented when an operational team needs help to manufacture a light communication device.

Hardware: the support team must use the standard Arduino kit.

**Objective:** to provide the operational team with a simple and robust protocol for communicating with light. The device must be able to emit a signal and pick up a response. Other constraints may be issued by the operational team.

Criteria: the devices must be as reliable as possible.

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## LIGHT COMMUNICATION PROTOCOL

The support team will follow a "competition mode" procedure working in multiple teams:

- user manual for the operational team.
- 2. An official test of the devices is then organised. All correctly.

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Each team designs a protection system and tests it to improve it as much as possible. It must also produce a

devices must be tested in real conditions: a message of 3 letters is given which must be sent and detected

3. The support team chooses the most reliable device and its instructions are sent to the operational team.

