CLAIMS

1. A device (10) for representing hits by shots and/or rockets, comprising a flight propulsion unit (11), providing flight capability for the device (10), characterized in that
at least one means (12) for optical and/or acoustic representation of a hit is provided,
a transmission unit (13) providing bidirectional communication capability for the device (10) is provided,
the transmission unit (13) is capable of remotely controlling the flight propulsion unit (11) to guide the device (10) to a target area (60), and
the transmission unit (13) is capable of remotely controlling the means (12) for optical and/or acoustic representation of a hit.

2. The device (10) according to claim 1, characterized in that the flight propulsion unit (11) is implemented by multiple rotors, the device (10) thus being implemented as a multicopter.

3. The device (10) according to claim 1 or 2, characterized in that at least one camera is provided and the transmission unit (13) comprises at least one electric wire and/or a wireless communication capability to transmit captured images as data (21) to receivers.

4. The device (10) according to one of claims 1 to 3, characterized in that the means (12) for optical and/or acoustic representation of the hit are implemented as pyrotechnical means and/or flash of light and/or at least one laser.

5. The device (10) according to claim 4, characterized in that the laser beam of the laser is moveable and controllable and control of the laser beam is performed by a programmed control of the device (10) or the laser beam is remotely controllable by the transmission unit (13).

6. The device (10) according to one of claims 1 to 5, characterized in that the means (12) for acoustic representation of a hit is implemented as at least one loudspeaker.

7. The device (10) according to one of claims 1 to 6, characterized in that batteries and/or a terminal for transmitting electrical energy are provided, for providing electrical energy to the device (10), wherein disconnection of the electrical energy supply by the terminal is configured to be remotely controllable.

8. A system for representing hits by shots and/or rockets, comprising at least one device (10) according to one of the claims 1 to 7, characterized in that
at least one landing point (20) is provided for the device (10), which is provided with an energy supply for the device (10),
a control centre (30) remotely controls the flight propulsion unit (11),
at least one shooting- and/or rocket station (40) is provided, which is connected to the control centre (30) by at least one electrical wire and/or by wireless communication.

9. The system according to claim 8, characterized in that the shooting- and/or rocket station (40) is implemented locatable by position satellites (50) and transmits its position to the control centre (30).

10. The system according to claim 8 or 9, characterized in that the receiver of the image data (21) is also the control centre (30) and/or at least one mobile imaging device (31), which comprises receiving means capable of receiving the image data (21).

11. The system according to one of claims 8 to 10, characterized in that at least one additional device (10) according to one of the claims 1 to 7 is provided, which employs its transmission unit (13) to relay received data (21) to other devices (10) and/or to the control centre (30).

12. The system according to one of claims 8 to 11, characterized in that the landing point (20) comprises at least one induction circuit, which provides inductive electrical energy to the landed device (10).

13. The system according to one of claims 8 to 11, characterized in that the landing point (20) comprises terminals, which provide electrical energy to the device (10) when it lands.

14. A method for representing hits by shots and/or rockets, characterized in that a system according to one of claims 8 to 13 transmits the position and alignment of the shooting- and/or rocket station (40) to the control centre (30), the control centre (30) uses the position, the alignment and the physical flight properties of the used shot and/or rocket to calculate the target area (60) of the hit,
the target area (60) is used to guide a device (10) according to one of claims 1 to 7 by the control centre (30),
the device (10) is prompted in the target area to release the means (12) for optical and/or acoustic representation of the hit, and that
the device (10) sends images and/or videos by the camera via the transmission unit (13) to at least one receiver.

15. The method according to claim 14, characterized in that after sending the images and/or videos, the device (10) is guided to the landing point (20) by the control centre (30) and
after landing on the landing point (20) the device (10) is provided with electrical energy and/or is equipped with new means for optical and/or acoustic representation of hits.

CLAIMS

1. A device for representing hits by shots and/or rockets, comprising a flight propulsion unit, providing flight capability for the device, characterized in that at least one means for optical and/or acoustic representation of a hit is provided, a transmission unit providing bidirectional communication capability for the device is provided,
the transmission unit is capable of remotely controlling the flight propulsion unit to guide the device to a target area, and
the transmission unit is capable of remotely controlling the means for optical and/or acoustic representation of a hit.

2. The device according to claim 1, characterized in that the flight propulsion unit is implemented by multiple rotors, the device thus being implemented as a multicopter.

3. The device according to claim 1 or 2, characterized in that at least one camera is provided and the transmission unit comprises at least one electric wire and/or a wireless communication capability to transmit captured images as data to receivers.

4. The device according to one of claims 1 to 3, characterized in that the means for optical and/or acoustic representation of the hit are implemented as pyrotechnical means and/or flash of light and/or at least one laser.

5. The device according to claim 4, characterized in that the laser beam of the laser is moveable and controllable and control of the laser beam is performed by a programmed control of the device or the laser beam is remotely controllable by the transmission unit.

6. The device according to one of claims 1 to 5, characterized in that the means for acoustic representation of a hit is implemented as at least one loudspeaker.

7. The device according to one of claims 1 to 6, characterized in that batteries and/or a terminal for transmitting electrical energy are provided, for providing electrical energy to the device, wherein disconnection of the electrical energy supply by the terminal is configured to be remotely controllable.

8. A system for representing hits by shots and/or rockets, comprising at least one device according to one of the claims 1 to 7, characterized in that
at least one landing point is provided for the device, which is provided with an energy supply for the device,
a control centre remotely controls the flight propulsion unit,
at least one shooting- and/or rocket station is provided, which is connected to the control centre by at least one electrical wire and/or by wireless communication.

9. The system according to claim 8, characterized in that the shooting- and/or rocket station is implemented locatable by position satellites and transmits its position to the control centre.

10. The system according to claim 8 or 9, characterized in that the receiver of the image data is also the control centre and/or at least one mobile imaging device, which comprises receiving means capable of receiving the image data.

11. The system according to one of claims 8 to 10, characterized in that at least one additional device according to one of the claims 1 to 7 is provided, which employs its transmission unit to relay received data to other devices and/or to the control centre.

12. The system according to one of claims 8 to 11, characterized in that the landing point comprises at least one induction circuit, which provides inductive electrical energy to the landed device.

13. The system according to one of claims 8 to 11, characterized in that the landing point comprises terminals, which provide electrical energy to the device when it lands.

14. A method for representing hits by shots and/or rockets, characterized in that a system according to one of claims 8 to 13 transmits the position and alignment of the shooting- and/or rocket station to the control centre,
the control centre uses the position, the alignment and the physical flight properties of the used shot and/or rocket to calculate the target area of the hit,
the target area is used to guide a device according to one of claims 1 to 7 by the control centre,
the device is prompted in the target area to release the means for optical and/or acoustic representation of the hit, and that
the device sends images and/or videos by the camera via the transmission unit to at least one receiver.

15. The method according to claim 14, characterized in that after sending the images and/or videos, the device is guided to the landing point by the control centre and
after landing on the landing point the device is provided with electrical energy and/or is equipped with new means for optical and/or acoustic representation of hits.