CLAIMS

1. A sighting or spotting scope for observing an outside landscape comprising, in a single mechanical structure:

- a camera,
- a video microdisplay associated with an eyepiece,
- a luminous symbol or dot; and
- an optical device arranged to superpose an image of said luminous symbol or dot on the image of the video microdisplay,

characterized in that the eyepiece comprises, in this order, the optical device, at least one group of lenses and an optical combiner arranged so as to superpose an image of the video microdisplay and the image of said luminous symbol on the outside landscape.

2. The sighting or spotting scope as claimed in claim 1, characterized in that an optical chain composed of the camera, of the video microdisplay and of the eyepiece has a magnification of one, the image of the video microdisplay conforming to that of the outside landscape.

3. The sighting or spotting scope as claimed in claim 1 or 2, characterized in that the optical combiner comprises a flat semireflecting surface inclined at approximately 45 degrees to a sighting or spotting axis.

4. The sighting or spotting scope as claimed in claim 3, characterized in that the semireflecting surface is incorporated in a first splitter plate comprising two flat and parallel faces.

5. The sighting or spotting scope as claimed in claim 3, characterized in that the semireflecting surface is incorporated in a first splitter cube comprising two flat and parallel faces.

6. The sighting or spotting scope as claimed in claim 5, characterized in that the first splitter cube comprises a reflecting concave mirror, an optical axis of which is at right angles to the sighting or spotting axis, light rays from the video microdisplay being transmitted by the semireflecting surface, reflected by the concave mirror then by the semireflecting surface.

7. The sighting or spotting scope as claimed in claim 6, characterized in that the first splitter cube comprises a convex input face, an optical axis of which is at right angles to the sighting or spotting axis and opposite to the concave mirror.

8. The sighting or spotting scope as claimed in claim 1 or 2, characterized in that the optical combiner comprises a concave semireflecting surface of “freeform” or diffractive type inclined to the sighting or spotting axis and in that the eyepiece comprises a convex mirror associated with the concave semireflecting surface.

9. The sighting or spotting scope as claimed in claim 1, characterized in that the optical device comprises a second splitter plate or a second splitter cube disposed in front of the video microdisplay so that the image of the luminous symbol or dot is, by reflection or transmission by the second splitter plate or by the second splitter cube, merged with the video microdisplay.

10. The sighting or spotting scope as claimed in one of the preceding claims, characterized in that the camera is a thermal infrared camera.

11. The sighting or spotting scope as claimed in one of claims 1 to 9, characterized in that the camera is a low light level camera.