

Claims

1. A multi-sensor camera (1) comprising at least one housing (2) extending along a camera longitudinal axis (KLA) and having a housing base (3) running, at least in sections, perpendicularly to the camera longitudinal axis (KLA) and a plurality of image sensor units (6, 6', 6.1-6.6), wherein an image sensor unit (6, 6', 6.1-6.6) comprises a lens (6a, 6a') and an image sensor (6b, 6b') adjoining thereto along a sensor longitudinal axis (SLA), wherein the image sensor units (6, 6', 6.1-6.6) are distributed concentrically around the camera longitudinal axis (KLA) and arranged within the housing (2) in such a way that the lenses (6a, 6a') of the image sensor units (6, 6', 6.1-6.6) are oriented towards the camera longitudinal axis (KLA) or point outwards from the camera longitudinal axis (KLA), wherein at least one further image sensor unit (8) is provided in the housing (2), the sensor longitudinal axis (SLA) of which runs parallel to the camera longitudinal axis (KLA) and at least one still further image sensor unit (8') comprising a fisheye lens is received in the housing base (3), the sensor longitudinal axis (SLA) of which runs parallel to the camera longitudinal axis (KLA).
2. The multi-sensor camera according to Claim 1, characterized in that the sensor longitudinal axes (SLA) of the image sensor units (6, 6', 6.1-6.6) each define an acute angle (w , w') with the camera longitudinal axis (KLA).
3. The multi-sensor camera according to Claim 1 or 2, characterized in that the housing base (3) comprises an image capture aperture (4), which can be closed by means of an optically transparent, flat and preferably detachable cover plate (5).
4. The multi-sensor camera according to any one of Claims 1 to 3, characterized in that the image sensor units (6, 6', 6.1-6.6) are arranged in at least one mounting plane (ME) running perpendicularly to the camera longitudinal axis (KLA).
5. The multi-sensor camera (1) according to Claim 4, characterized in that the at least one mounting plane (ME) runs parallel to and at a distance from the housing base (3) or cover plate (5) of the housing (2).
6. The multi-sensor camera according to any one of Claims 1 to 5, characterized in that the image sensor units (6, 6', 6.1-6.6) are arranged diagonally to one another in the housing (2) in such a way that the sensor longitudinal axes (SLA) thereof and the

camera longitudinal axis (KLA) intersect in a common virtual intersection point (S) outside the housing.

7. The multi-sensor camera according to any one of Claims 1 to 6, characterized in that the image sensor units (6, 6', 6.1-6.6) are arranged annularly distributed around the camera longitudinal axis (KLA) within the housing (2).
8. The multi-sensor camera according to any one of Claims 1 to 7, characterized in that the image sensor units (6, 6', 6.1-6.6) each have the same radial distance from the camera longitudinal axis (KLA).
9. The multi-sensor camera according to any one of Claims 1 to 8, characterized in that holding means (7) are provided within the housing (2) for receiving the image sensor units (6, 6', 6.1-6.6).
10. The multi-sensor camera according to Claim 9, characterized in that the holding means (7) open in a dome-like manner towards the image capture aperture (4) or towards a housing top (2.3).
11. The multi-sensor camera according to any one of Claims 1 to 10, characterized in that at least four image sensor units (6, 6', 6.1-6.6) and at least two further image sensor units (8, 8') are provided.
12. The multi-sensor camera according to any one of Claims 1 to 11, characterized in that four, six or eight image sensor units (6, 6') are arranged diagonally to the camera longitudinal axis (KLA) and concentrically distributed around the camera longitudinal axis (KLA) within the housing (2).
13. The multi-sensor camera according to any one of Claims 1 to 12, characterized in that the housing (2) is designed to be installed in a building ceiling (D) with the housing base (3) flush therewith.
14. The multi-sensor camera according to any one of Claims 1 to 13, characterized in that the image sensor units (6, 6', 6.1-6.6) have lenses (6a, 6a') having the same or different focal distances.

15. The multi-sensor camera according to any one of Claims 1 to 14, characterized in that the acute angle (w, w') is between 15° and 80° , preferably between 35° and 65° .
16. The multi-sensor camera according to any one of Claims 1 to 15, characterized in that the image sensor units (6, 6', 6.1-6.6) and/or the further image sensor units (8, 8') are designed for capturing individual high-resolution digital images.
17. The multi-sensor camera according to any one of Claims 1 to 16, characterized in that the image sensor units (6, 6', 6.1-6.6) comprise detection zones (EB, EB'), which cross one another in the area of the housing (2), in particular in the area of the housing interior (2').
18. The multi-sensor camera according to Claim 17, characterized in that the detection zones (EB, EB', EB'') of the image sensor units (6, 6', 6.1-6.6) and of at least one of the further image sensor units (8, 8') cross one another.