

The present disclosure relates to determination of the weight of an animal, especially cattle, in a shed environment based on vision technology, in particular 3D imaging. A first embodiment relates to a method for determining the weight of an animal with known breed, the method comprising the steps of acquiring at least one 3D image of the back of the animal, extracting data from said at least one 3D image relating to the topology of the back of the animal, and calculating the weight of said animal by correlating the extracted data against a reference model comprising information of the topology of the back versus the weight for the breed of said animal.