3D Transformations

```
pose_invert.hdev
pose_compose.hdev
```

Object Model 3D

```
set_object_model_3d_attrib.hdev
    set_object_model_3d_attrib(_mod)
    visualize_object_model_3d
    gen_plane_object_model_3d
    distance_object_model_3d

gen_primitives_object_model_3d.hdev

select_object_model_3d.hdev
    xyz_to_object_model_3d
    prepare_object_model_3d
    select_points_object_model_3d
    connection_object_model_3d
    volume_object_model_3d_relative_to_plane
    max_diameter_object_model_3d
    affine_trans_object_model_3d
    select_object_model_3d
```

Camera Calibration

```
camera_calibration_multi_image.hdev
    gen_cam_par_area_scan_division
    create_calib_data
    set_calib_data_cam_param
    set_calib_data_calib_object
    find_calib_object
    get_calib_data_observ_contours
    get_calib_data_observ_points
    calibrate_cameras
    get_calib_data
    set_origin_pose
    image_points_to_world_plane
check_calib_image_quality.hdev
```

Stereo Reconstruction: Calibration

```
calibrate_cameras_multiple_camera_setup.hdev
    get_calib_data
        'camera_setup_model'
        'reference_camera'
        'calib_obj_pose'
        'params_labels'
    set_camera_setup_param
        'coord_transf_pose'
```

stereo_calibration.hdev

Stereo Reconstruction: Binocular

Stereo Reconstruction: Multi-View

```
locate_pipe_joints_stereo.hdev
          create_camera_setup_model
          create_stereo_model
          set_stereo_model_param
          reconstruct_surface_stereo
```

Shape-Based Matching

```
create_shape_model_3d_lowest_model_level.hdev
    read_shape_model_3d
    read_object_model_3d
    prepare_object_model_3d
    create_shape_model_3d
    find_shape_model_3d
    project_shape_model_3d
```

Surface-Based Matching