RECTIFIED PHOTOGRAPHY

Scale Accurate Photographic Recording of Structures and Surfaces

RECTIFIED PHOTOGRAPHY

Useful for Recording

Buildings, Facades, Walls, Piers
Doors, Windows, Fireplaces, Arches
Gates, Gateposts, Gravestones
Architectural Detail

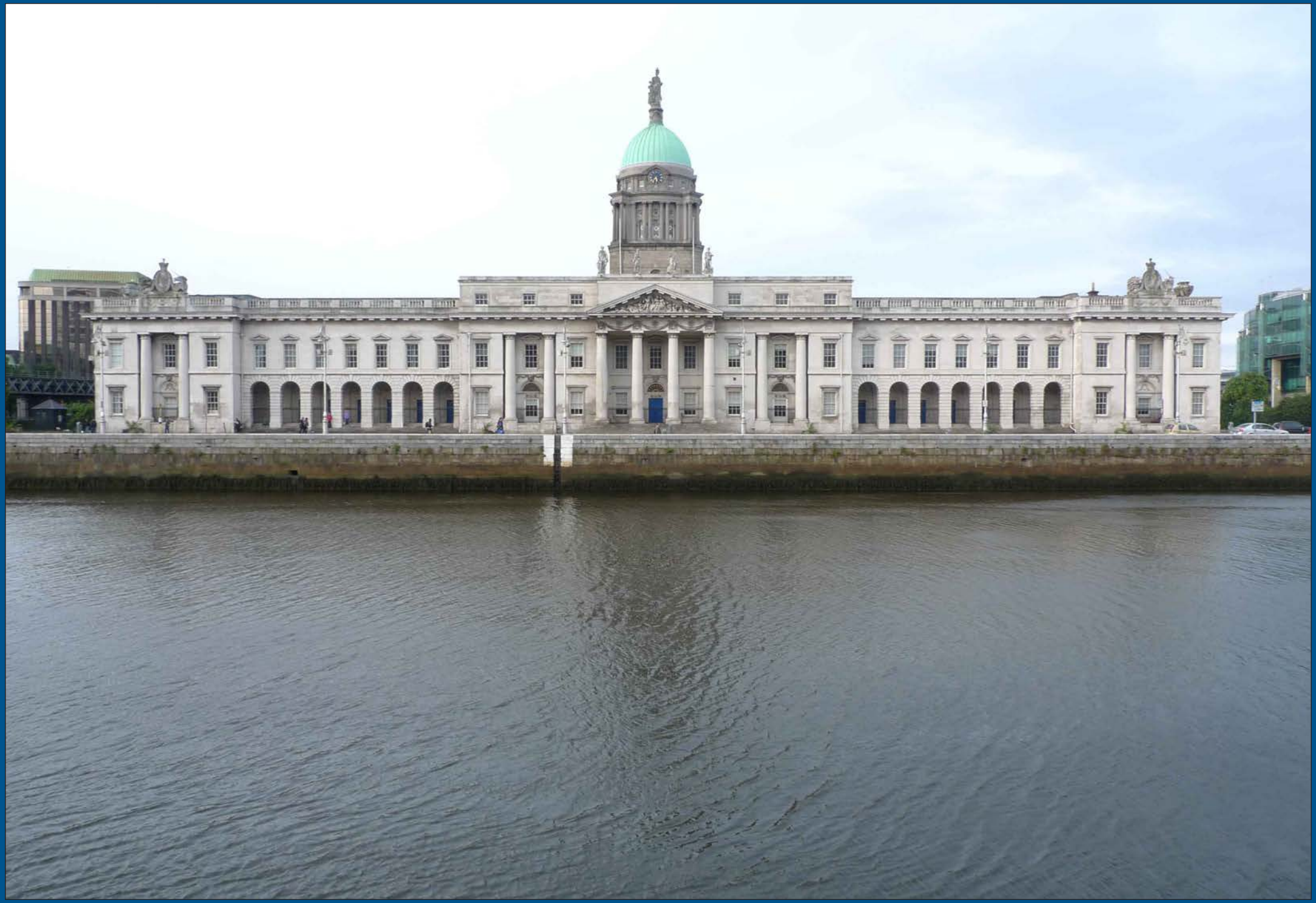
Anything that is flat or relatively flat

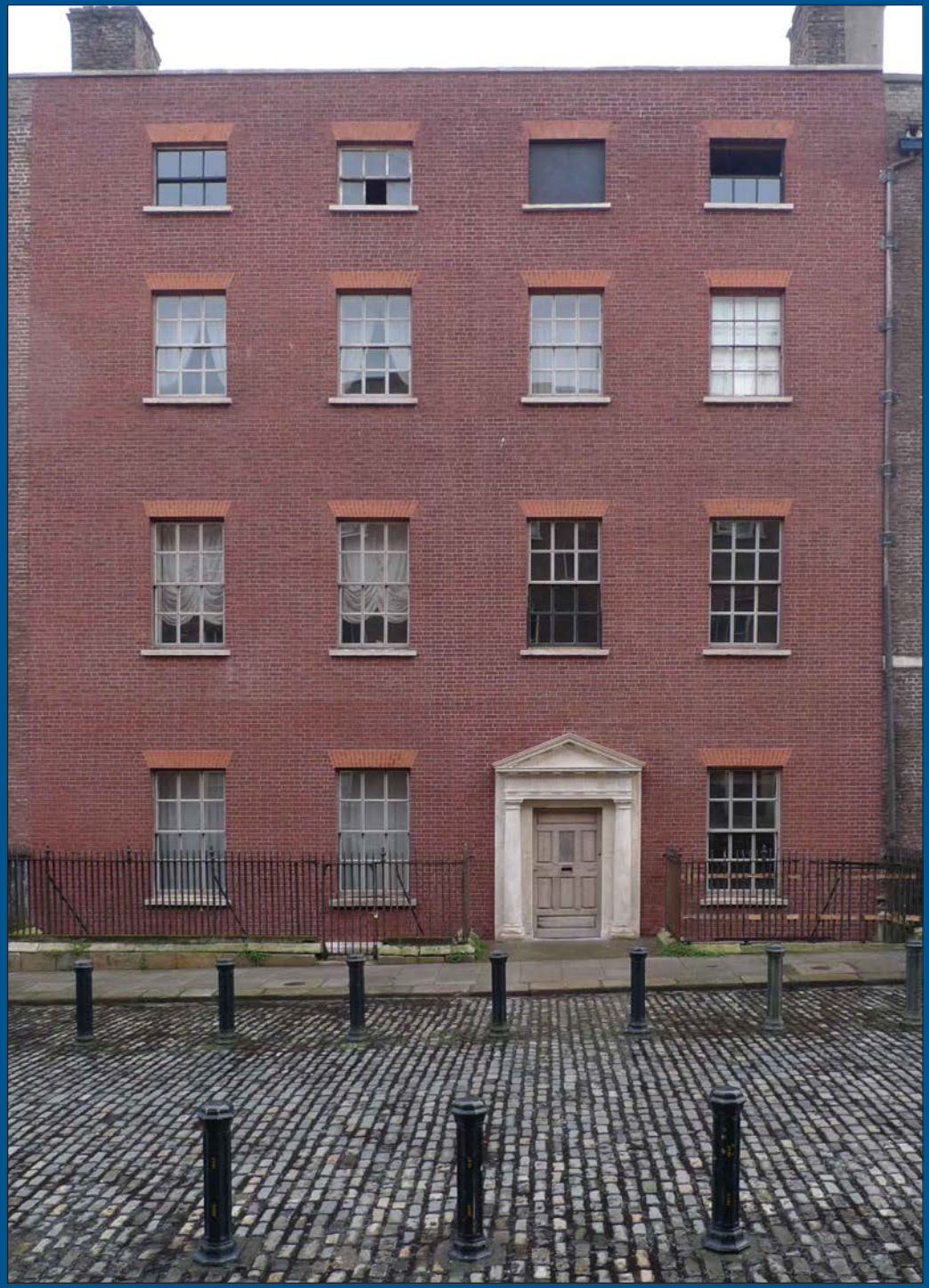
On the following pages there are examples
of square-on photographs that

could be scaled to produce

RECTIFIED PHOTOGRAPHIC ELEVATIONS

All that is needed to scale the photograph
are measured dimensions
ideally horizontal and vertical dimensions





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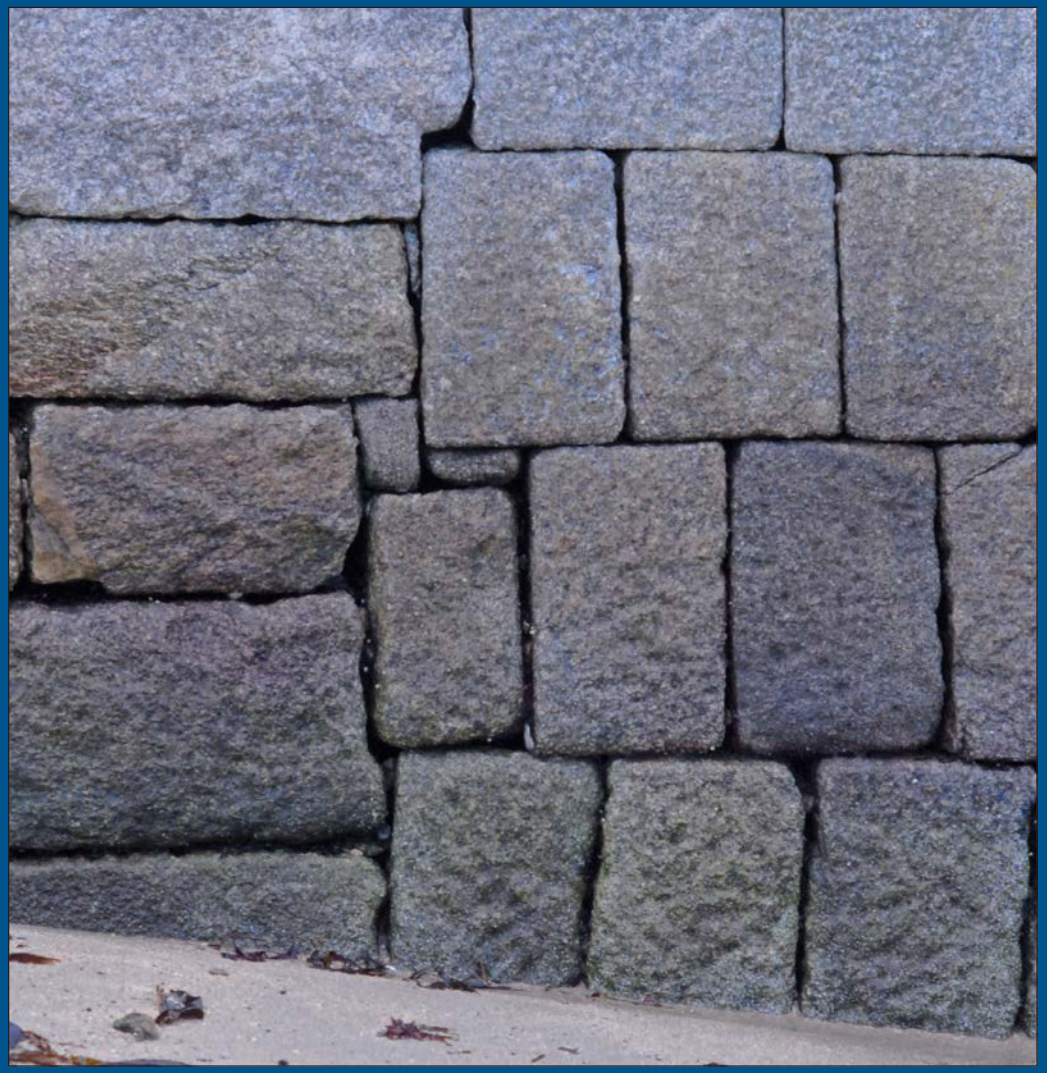
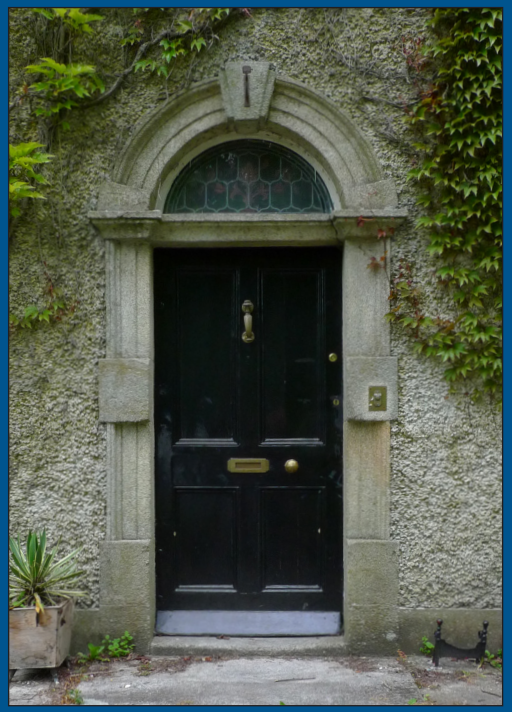
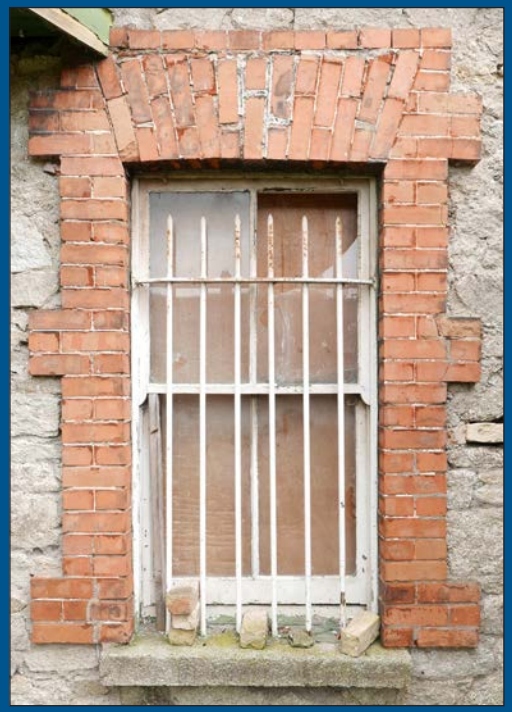
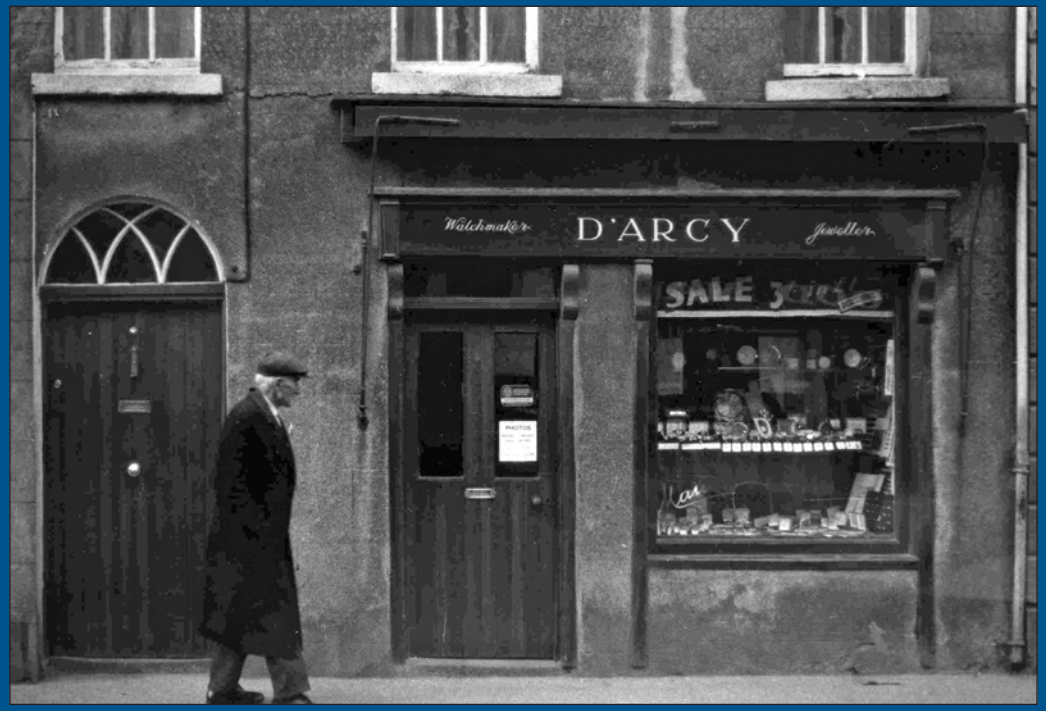


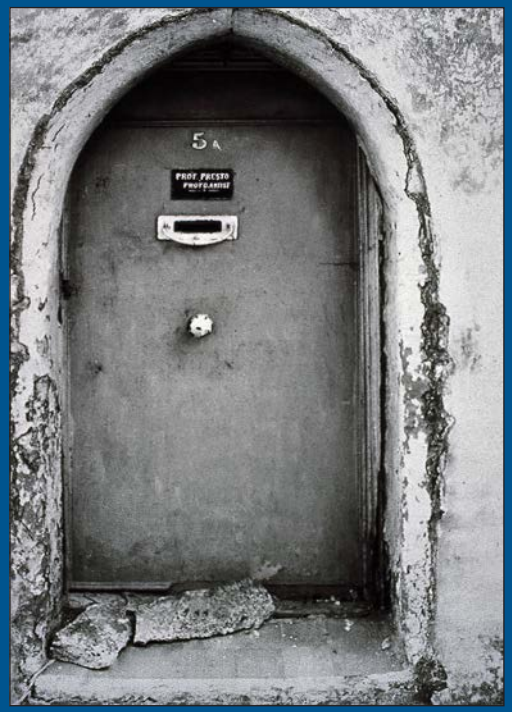


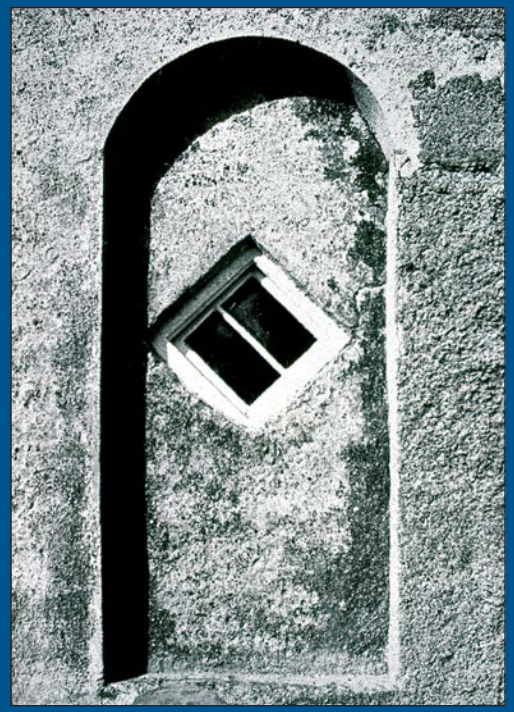


Sam.l Mathews Esq

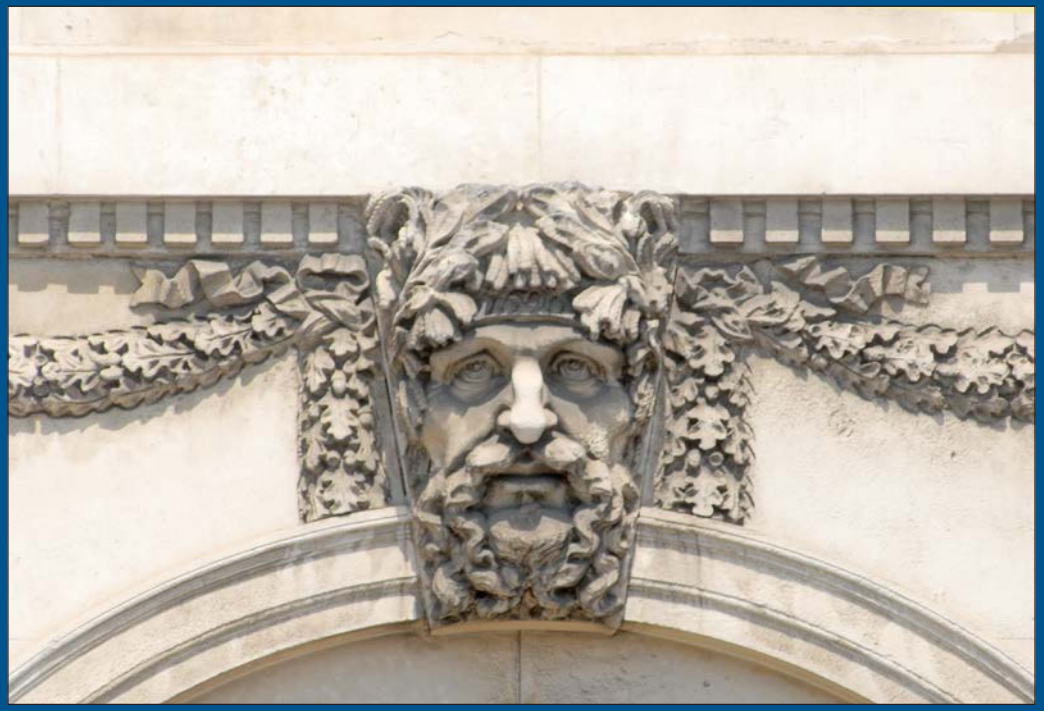
May the 4th 1821

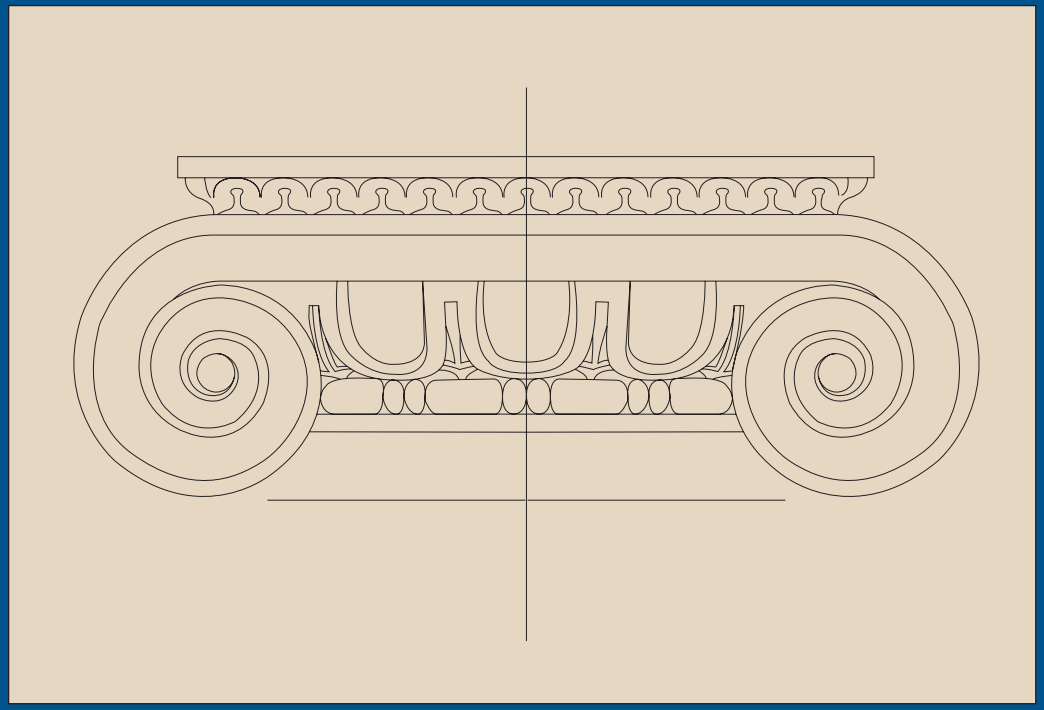

Watchmaker
D'ARCY
Jeweller
SALE


5A
PROF. PRESTO
PROFESSEUR



LPTI





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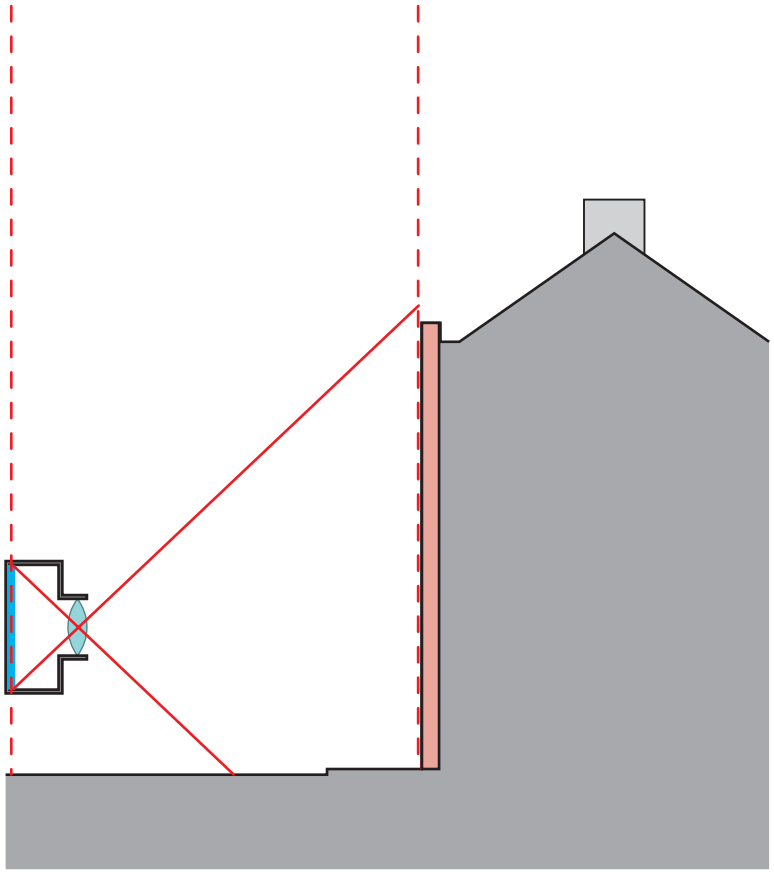
BRIDGE
1791

RECTIFIED PHOTOGRAPHY

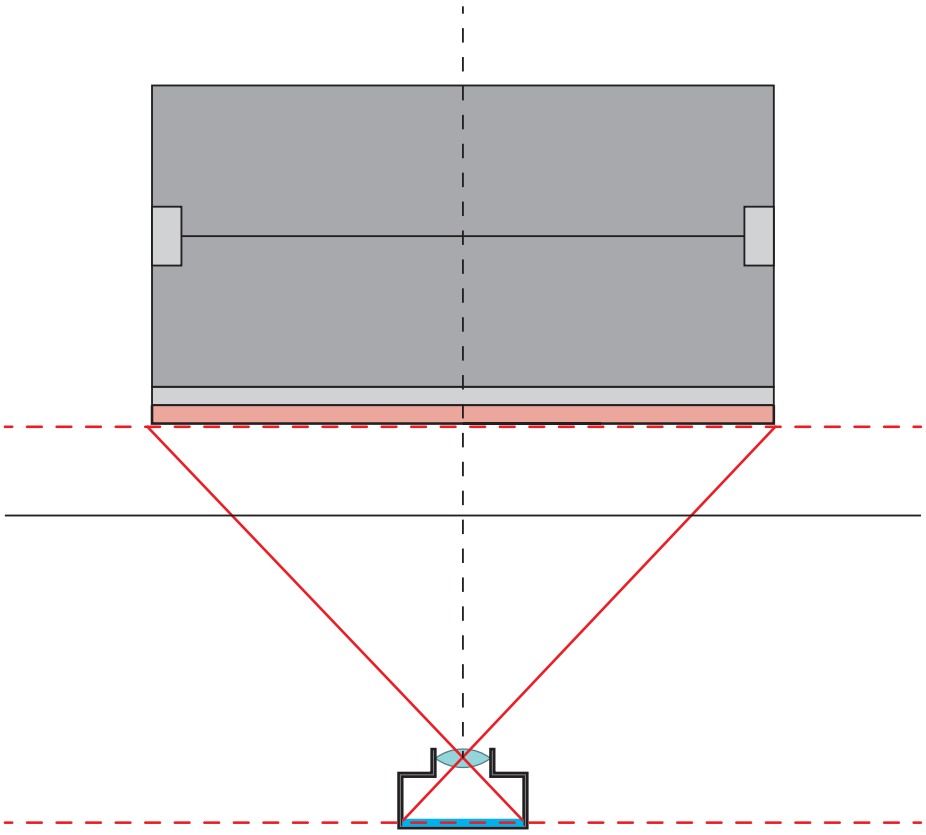
The Image Plane in the Camera

Must Be

Parallel to the Surface Being Recorded

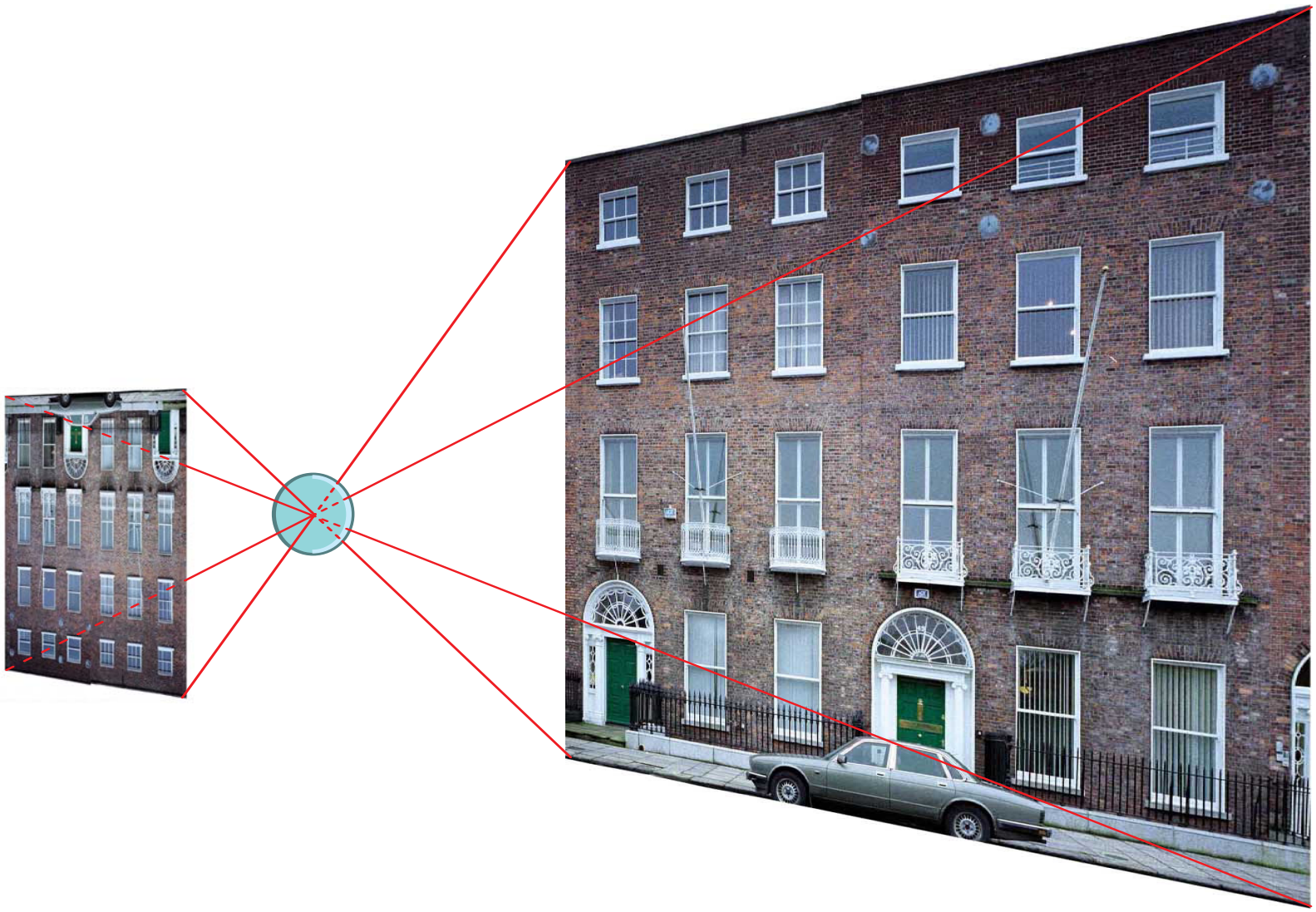


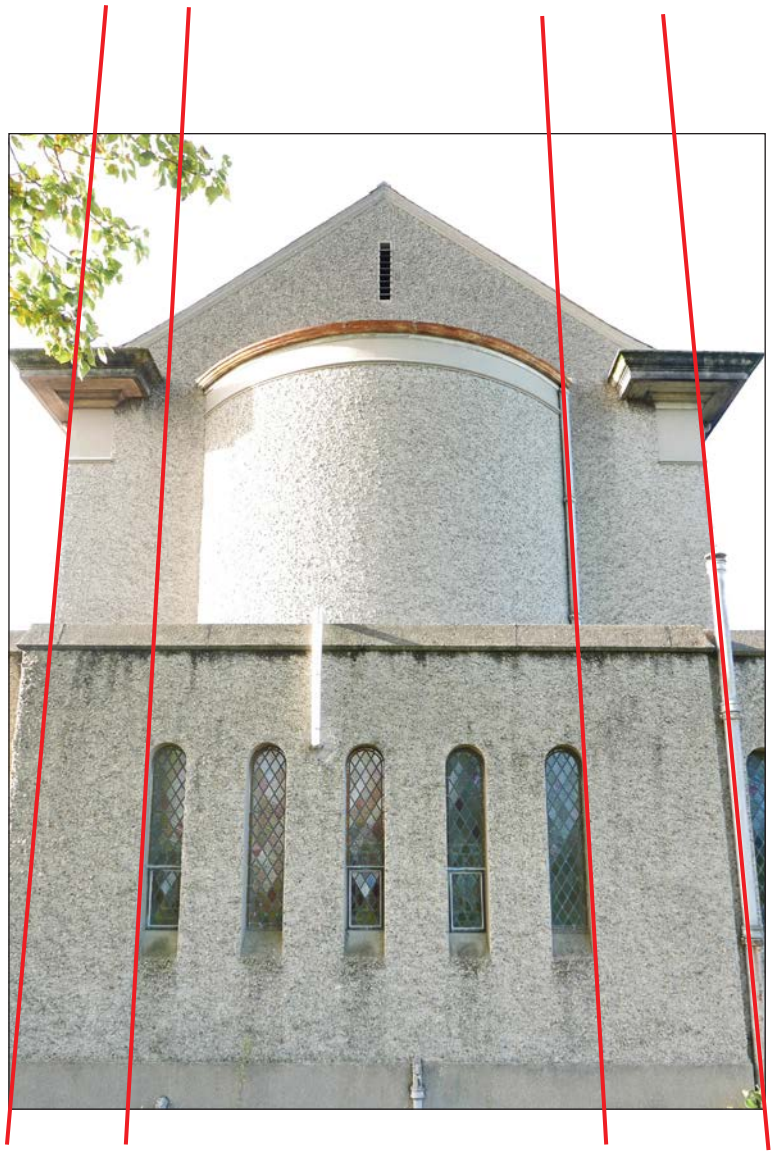
Parallel in the Vertical



Parallel in the Horizontal

The image plane is a model of the surface being photographed





Vertical Convergence
Camera Tilted Back

Horizontal Convergence
Camera Rotated Right

Most surfaces being recorded are vertical

so ensuring that the camera is level

will usually ensure that the image plane

is parallel to the surface being recorded

A grid in the camera will help ensure the horizontal rotation of the camera is parallel to the surface being recorded

Most cameras can be used for

RECTIFIED PHOTOGRAPHY

but lenses should not introduce distortions

Wide angle lenses should not exceed

24 mm full frame equivalent

Some zoom lenses may cause distortion

Barrel Distortion

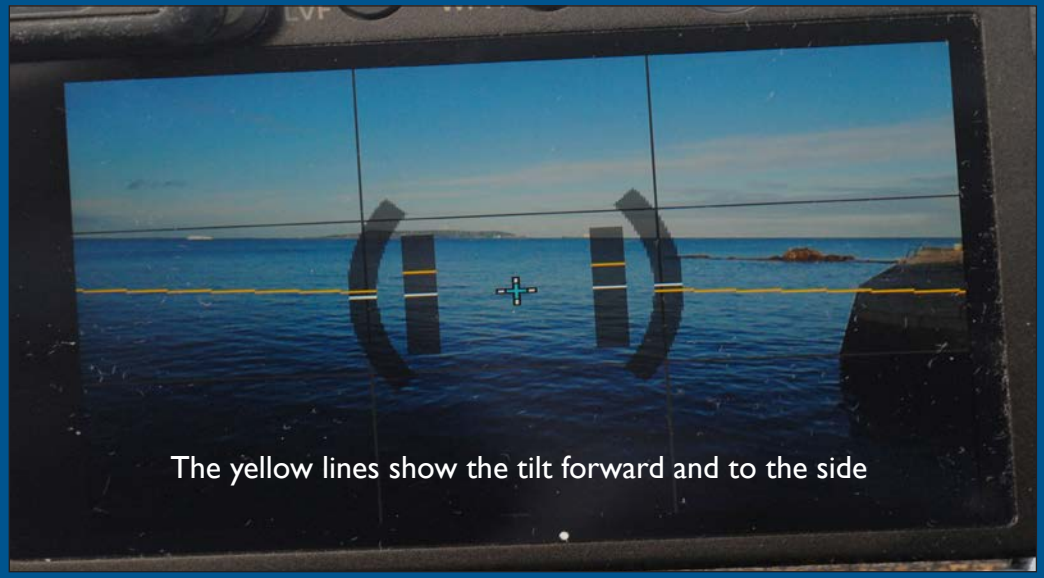
Pincushion Distortion

Mid range fixed lens camera on an adjustable tripod head

Back of the camera showing the Monitor Display

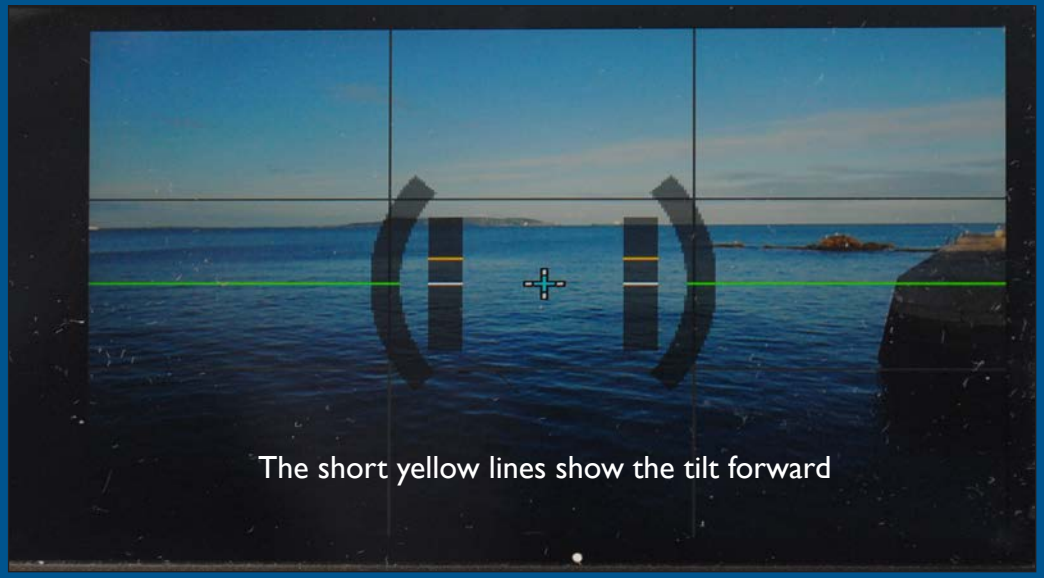
Monitor Display showing the level as green lines, the centre cross hairs in green and the grid in grey

Camera tilted forward and to the side



The yellow lines show the tilt forward and to the side

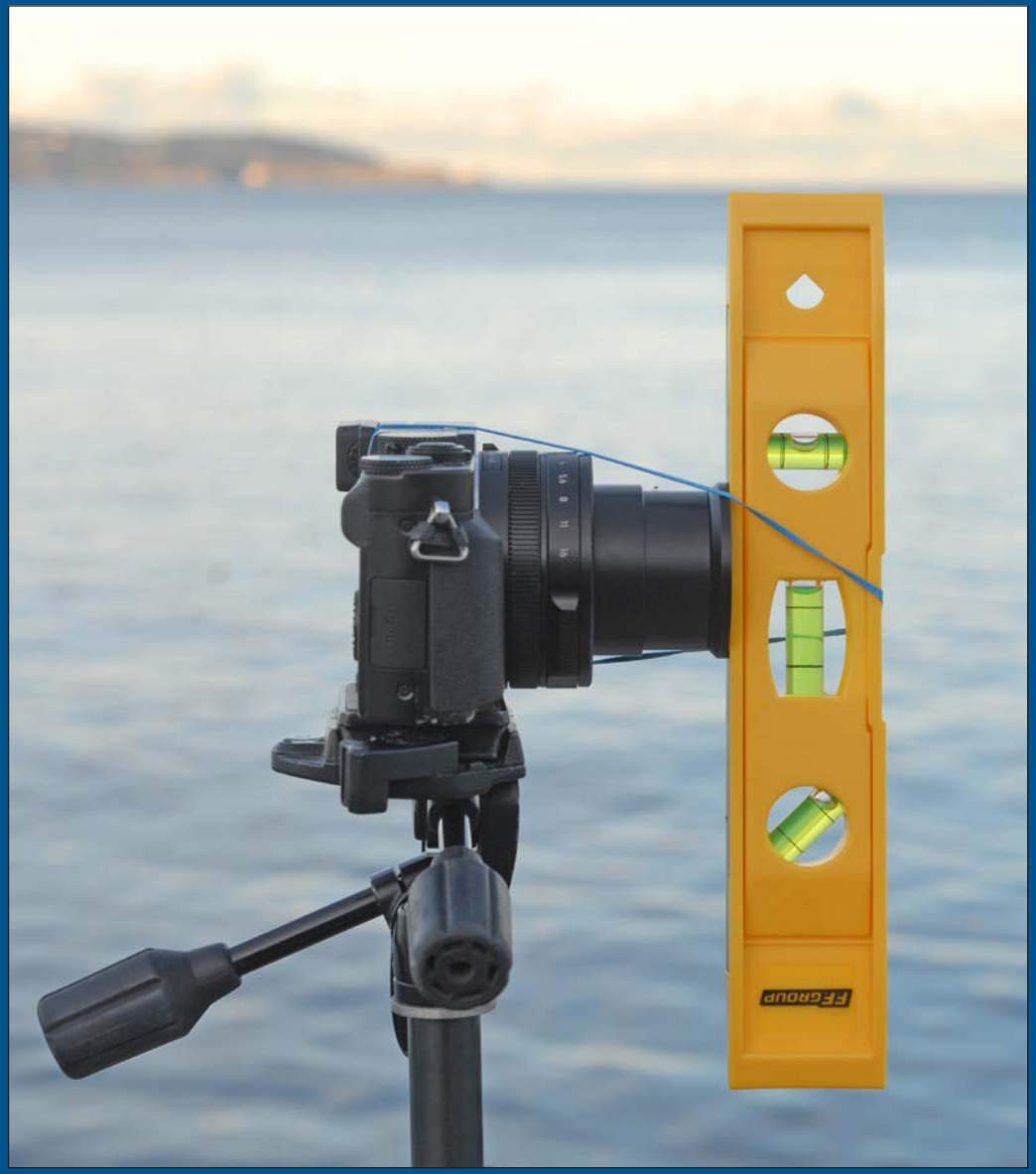
Camera tilted forward



The short yellow lines show the tilt forward

Light weight tripod

Using a spirit level



Sprung mounting for a phone

Sprung mounting on a mini tripod

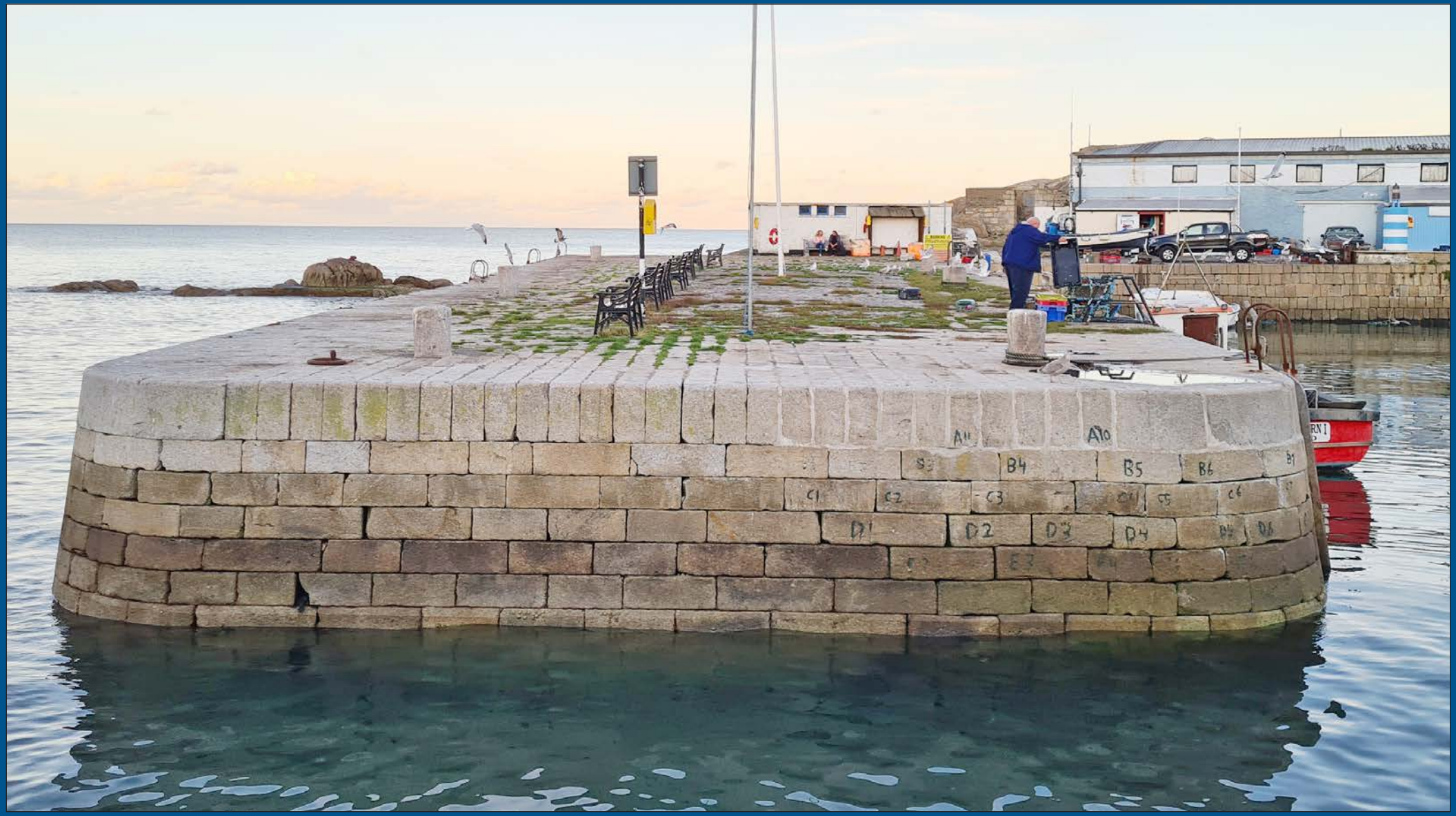
Desktop phone cradle

Sprung mounting on a flexible mini tripod

phone mounted on a tripod and levelled

Phone on a tripod with camera image on screen

Phone image of the end of the pier
Image centred on a paving line on the top of the pier

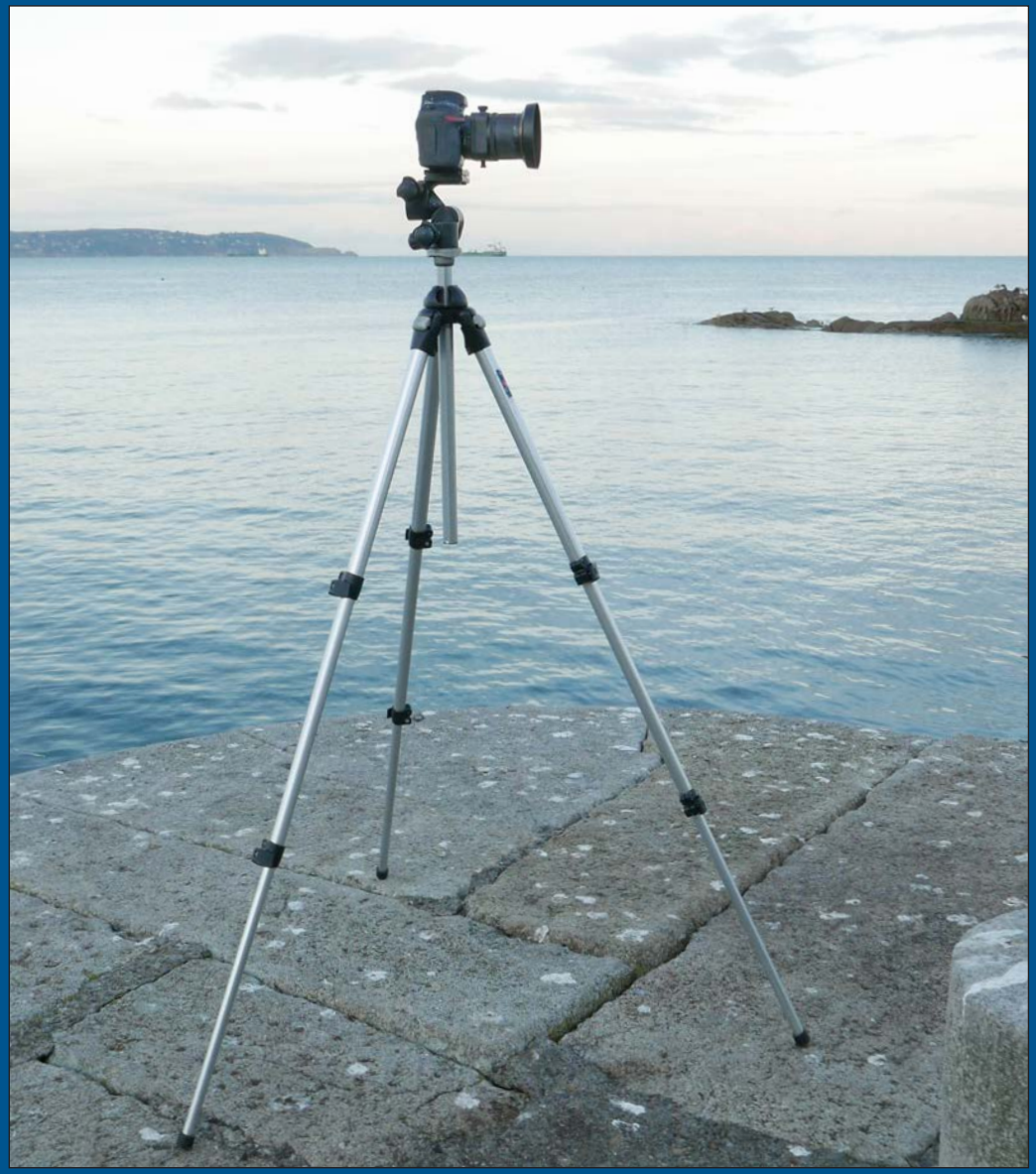


Level camera image of the end of the pier
The image plane and the face of the pier are not parallel

The camera is tilted to match the slope of the pier

The camera is tilted to match the slope of the pier
The image plane and the face of pier are parallel

SLR camera on a heavy tripod

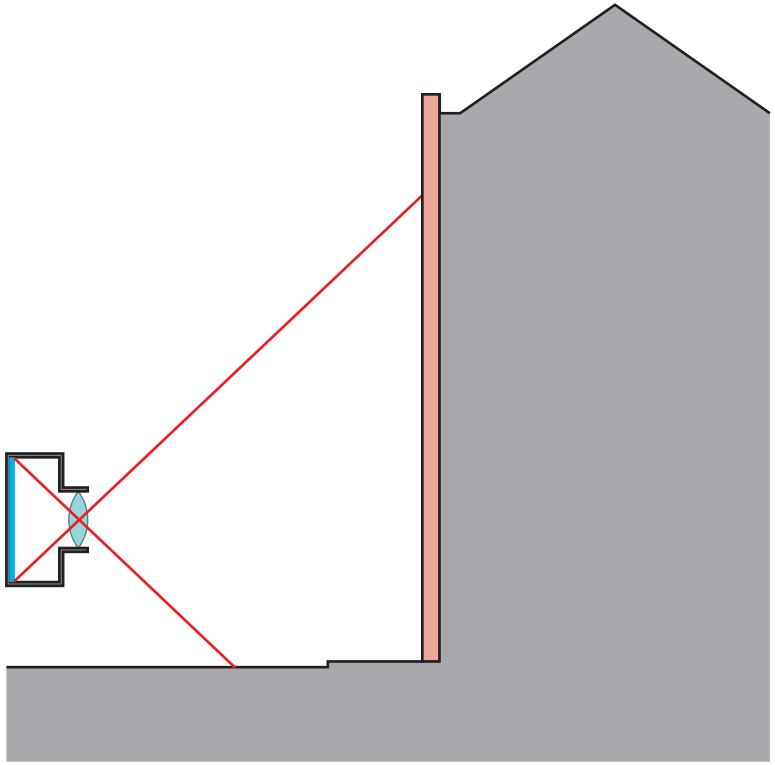


Nikon SLR camera with 24mm shift lens

24mm shift lens
no shift applied

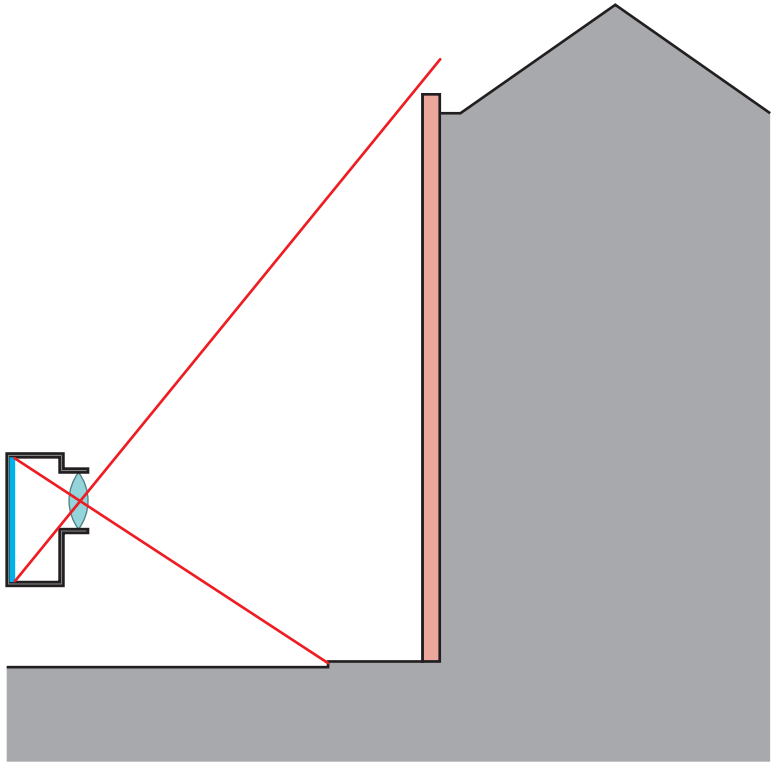
24mm shift lens
vertical shift applied

shift lens
no shift applied

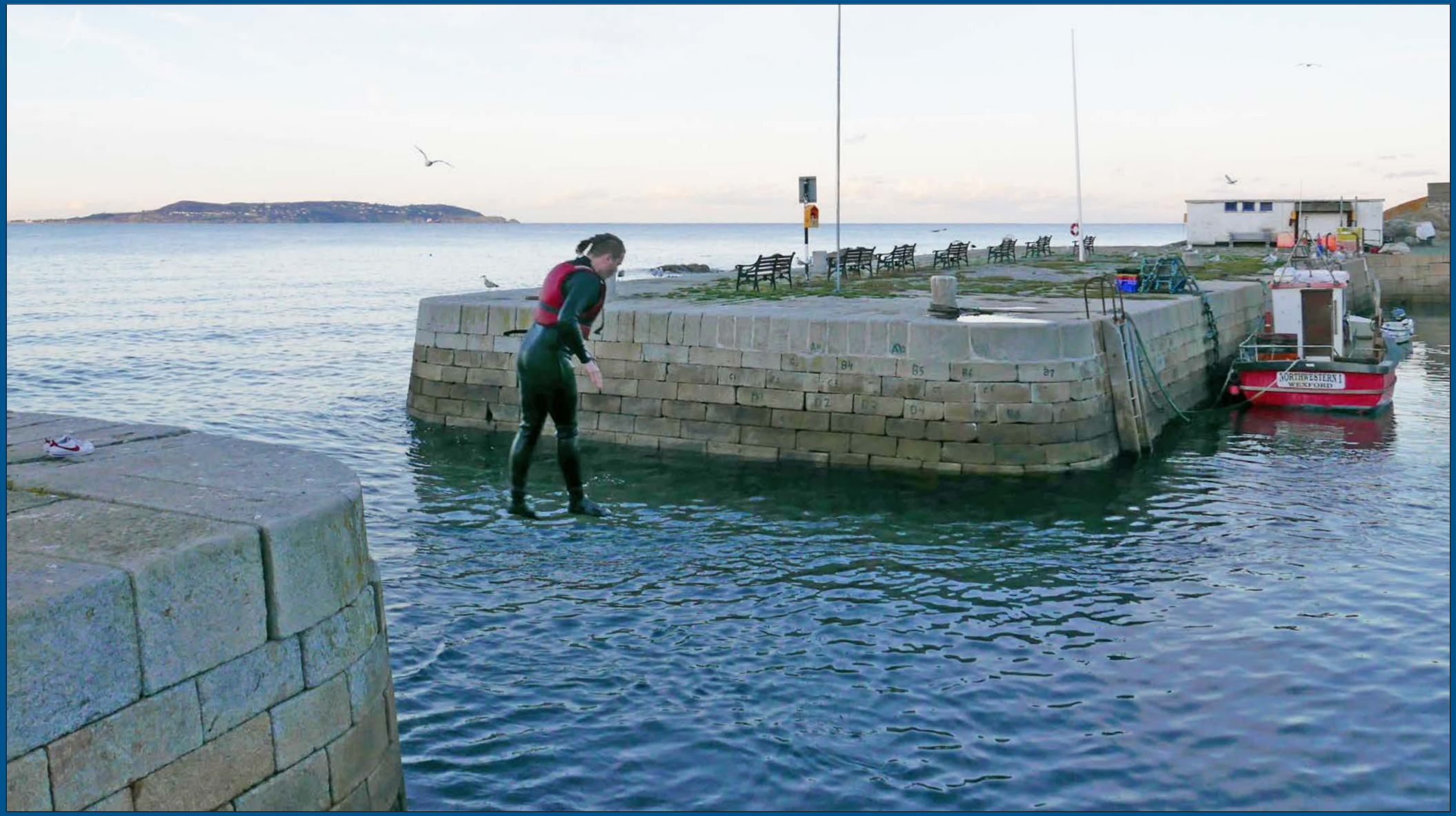


Top of facade excluded

shift lens
vertical shift applied



Top of facade included
(camera not tilted)

Surfaces to be recorded should be in shade
Sunshine and shadows hide detail

Don’t do this