

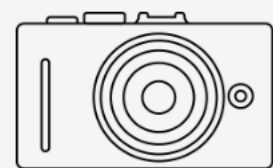
Smooth Seascapes

A1 CC

Simon Williams January 2021

Creating Calm

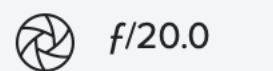
*Know **why** you
are using the
effect - what you
want to achieve.*



Fujifilm X-H1

XF16-55mmF2.8

R LM WR



f/20.0



24.9 mm



240

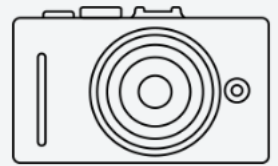


100



Creating Drama

Cloud movement



Fujifilm X-H1

XF16-55mmF2.8
R LM WR



f/22.0



16.0 mm



60



ISO 500

NB. too long and the sun will become a blur!



Smoothing movement

Device make: FUJIFILM

Device model: X-H1

Colour space: RGB

Colour profile: sRGB IEC61966-2.1

Focal length: 17.6 mm

Alpha channel: No

Red-eye: No

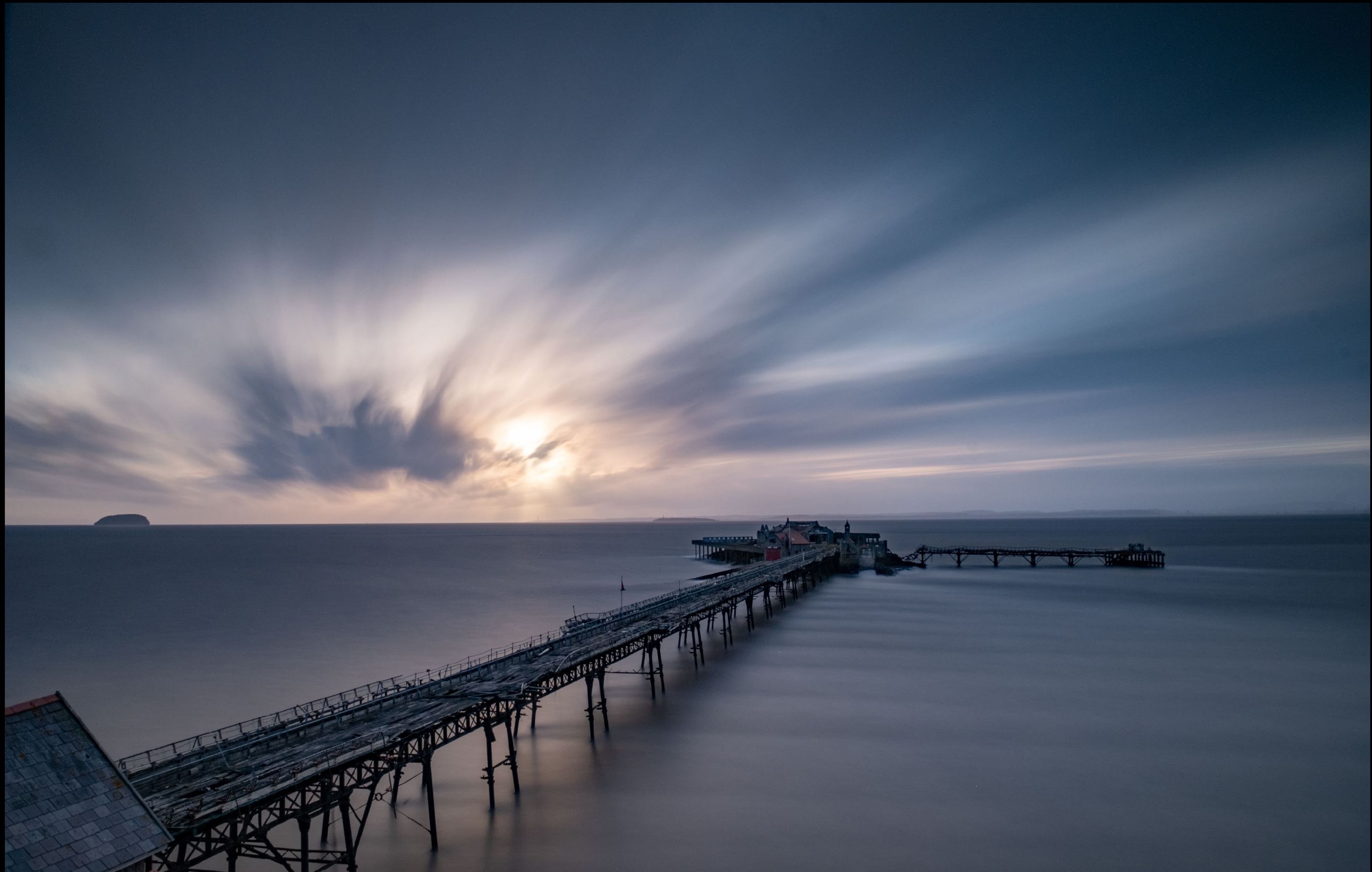
Metering mode: Pattern

F number: f/10

Exposure program: Manual

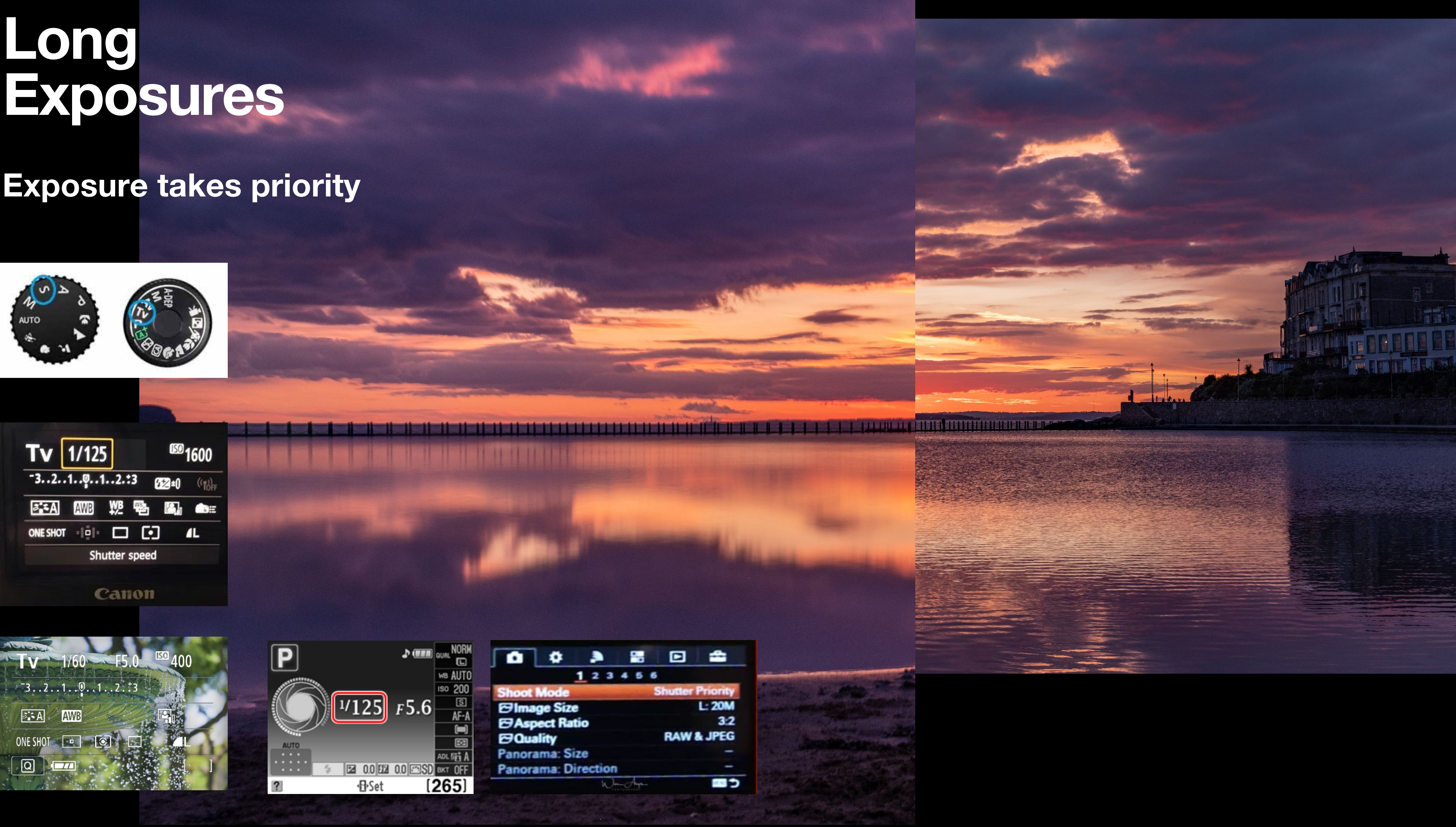
Exposure time: 08:00

*NB. can create interesting artefacts
- such as the channels behind the
pier legs.*



Long Exposures

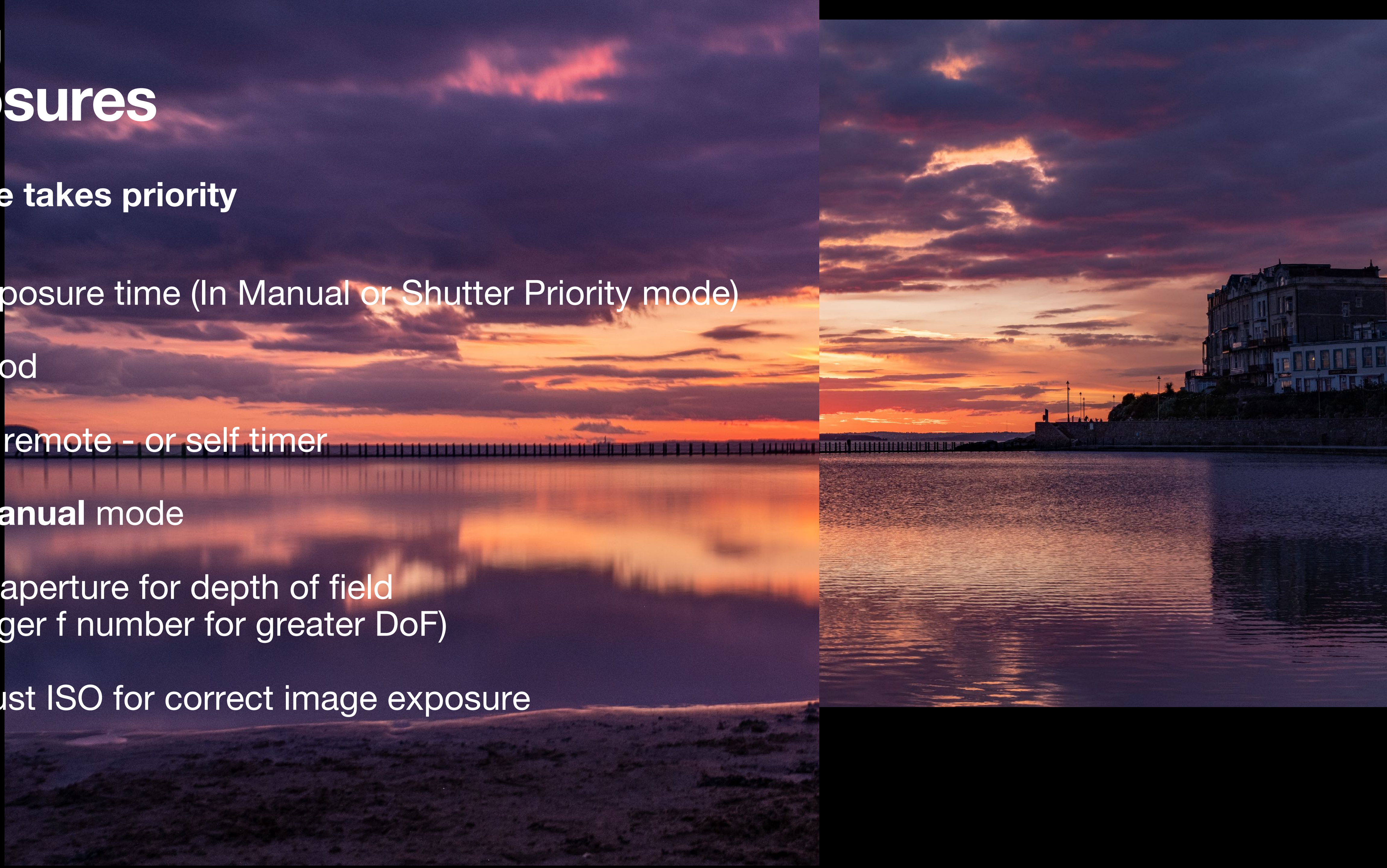
Exposure takes priority



Long Exposures

Exposure takes priority

- Set exposure time (In Manual or Shutter Priority mode)
 - Tripod
 - use remote - or self timer
- If in **Manual** mode
 - Set aperture for depth of field
(Larger f number for greater DoF)
 - Adjust ISO for correct image exposure



Check your
image for
unwanted
movement .

Device make: FUJIFILM
Device model: X-H1
Colour space: RGB
Colour profile: sRGB IEC61966-2.1
Focal length: 16 mm
Alpha channel: No
Red-eye: No
Metering mode: Pattern
F number: f/16
Exposure program: Manual
Exposure time: 1/4



Smoothing movement even more

Add a Neutral Density filter

- Might need to set focus without filter and then switch camera to manual focus and not touch the focus ring
- Add filter (decrease amount of light hitting sensor - allowing for a longer exposure time and more shooting of movement)
- Set exposure time
- Use Liveview (SLRs) to see the effect on exposure of the changes you are making.
- If in Manual mode
 - Set aperture for depth of field
 - Adjust ISO for correct image exposure



Neutral density filters

More expensive ones are glass and give little or no colour tint (cast) to the images.

Cheap ones turn images purple

They can come as kits with a special holder - square or rectangular filters. Or as screw-in filters that fit on the end of your lens.

NB: with the holder system you can't use a lens hood - this can lead to lens flare if the sun or a bright light source shines directly onto the lens/filter combination - a hat or umbrella can help here!



Hoya 58 mm Pro ND 64 Filter

★★★★★ 1,314

£45⁸²

£3.50 delivery

More buying choices

£43.50 (3 new offers)



Lee Filters LEE100 Deluxe Kit

🏠 Home Delivery

■ In Stock for home delivery

Order in the next 2hrs 33mins for delivery on Wednesday, 23 September, [alternative delivery options available.](#)

📍 Buy in Store

[Check stock near you.](#) - Items in stock in store can be reserved for same day pickup, or order online for collection within 1 to 2 working days



Elite Bundle Kit

Featuring essential items to get the very best from our Elite Filter System.

£89.85 **£79.85**

SRB



Rangers Series ND + Graduated ND2,

★★★★☆ 508

£22⁹⁹ ~~£23.99~~

✓prime FREE One-Day

Get it Tomorrow, Sep 23

Only 5 left in stock.

More buying choices

£18.99 (3 new offers)



Cokin Z-Pro Expert Kit

🏠 Home Delivery

■ In Stock for home delivery

Order in the next 2hrs 51mins for delivery on Wednesday, 23 September, [alternative delivery options available.](#)

📍 Buy in Store

[Check stock near you.](#) - Items in stock in store can be reserved for same day pickup, or order online for collection within 1 to 2 working days

RRP: £269.99

£199.00

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Save 25%

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📝 Reviews

Buy Now Pay Later

19.9% Representative

Credit subject to approval. Credit limit may vary. Offer valid on orders of £500 or more. See [terms and conditions](#) for full details.

Special Offer with

The Z-Pro Expert Kit features 3 essential filters – An ND4 Neutral Density filter, A ND4 Grad Gradual Neutral Density Filter, and a ND8 Grad Gradual Neutral Density filter. The kit also comes with a Z-Pro filter holder, plus 4 adapter rings (67mm, 72mm, 77mm, and 82mm diameters).

Included:

- Neutral Density ND4 filter (Z153) with 2-stop density
- Gradual Neutral Density GND4 filter (Z121M) with 2-stop density and hard-edged transition
- Gradual Neutral Density GND8 filter (Z121) with 3-stop density and hard-edged transition
- Z-Pro filter holder ('L' size)
- Everything you need to get started, including set of 4 adapter rings in 67,72,77 & 82mm diameters
- Z-Pro filter sizes: ND=100x100mm, GND=100x150mm

Neutral density filters

ND filters are created in **stops**. A **stop** in photography is either halving or doubling the amount of light e.g. making the picture 1 **stop** darker or 1 **stop** lighter. In the case of **ND filters**, you are always halving or reducing the amount of light. So a 1 **stop ND filter** will be stopping the light by 50% or half.

Typical values:

ND 0.6 - 2 stops 1/4 of light gets through

ND 3.0 - 10 stops of light 1/1024 of light gets through

Effect on an original shutter speed of 1s:

ND 0.6 - 2 stops- new exposure is 4s

ND 3.0 - 10 stops of light new exposure is 16 minutes

No need to remember this the digital camera's exposure system calculates this for you!




Long exposure times


Exposure times of more than 30s can be difficult on some cameras such as Canon SLRs. To achieve longer exposure times we use the “Bulb” B setting on the exposure dial with an external shutter release.

The external shutter release can be simply a manual switch you hold open for the required exposure time - or an electric timer switch can be used. Make sure you buy the one for your camera make


Sponsored




ABUYCS Remote Shutter Release Controller Set
Time Lapse Intervalometer Timer...
★★★★☆ 8
£13.99 ✓prime



Pixel TW-283 DC0 2.4G Wireless Shutter Release Remote Control for Nikon Cameras
★★★★☆ 1,106
£39.99 ✓prime




JJC JM-B Wireless Shutter Release Remote Control MC-30 Controller Replacement for Nikon...
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£19.99 ✓prime



Time Lapse Intervalometer Timer Shutter Release Remote Control Cord for Nikon...
★★★★☆ 5
£13.99 ✓prime

Customers who viewed this item also viewed



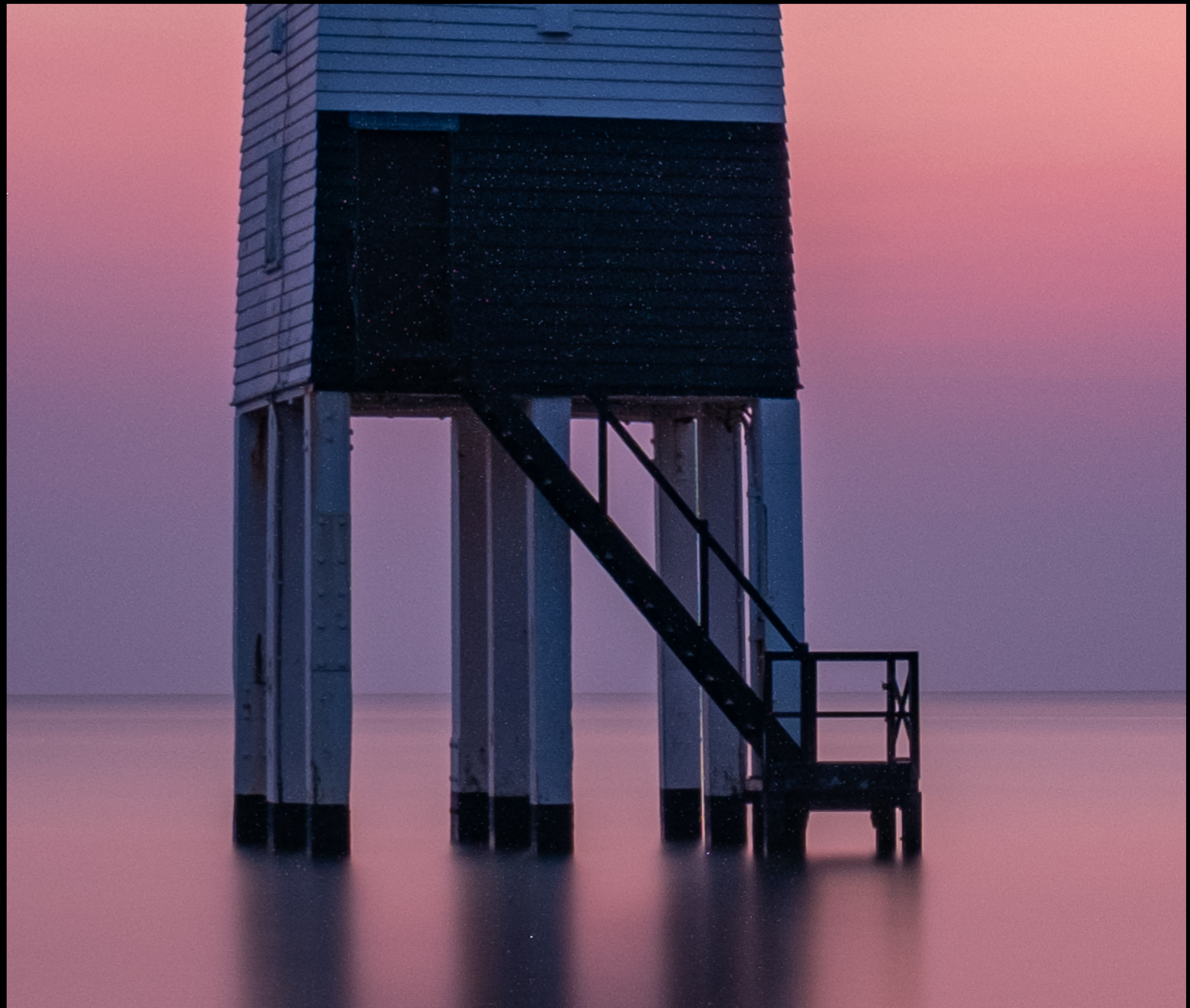
UR-232M Shutter Release Cable Remote Control for Nikon Z5 Z6 Z7 Df D90 D600 D750...
★★★★☆ 119
£10.99

4.4 out of 5 stars

Long exposure Issues

- Colour casts from cheaper filters
 - shoot in RAW and adjust white balance in Lightroom/Faststone
- Noise - the electronics of the sensor can generate speckles
 - Use one of the de-noise filters in Lightroom/Faststone (masking)
 - Use the camera's long exposure noise reduction facility - NB this takes as long as the original exposure took
- Hot Pixels - like noise - only these are usually pixels that show up as white in the same place on the sensor in a long exposure
 - edit out in Lightroom/Faststone
 - Map hot pixels in your camera (if your camera has this facility)





Black Church Rock Devon



F number: f/20
Exposure program: Manual
Exposure time: 1/30

Black Church Rock Devon



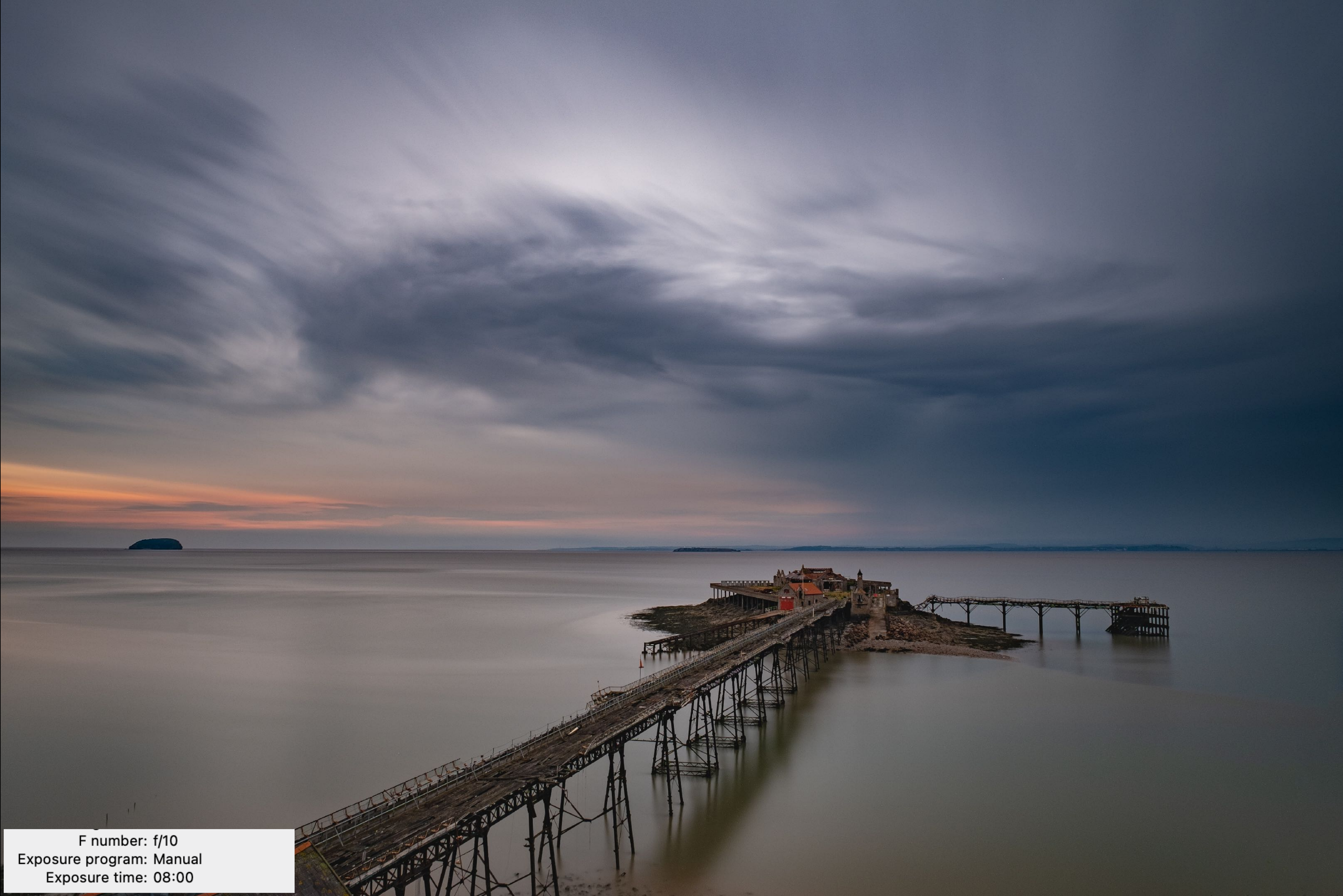
F number: f/16
Exposure program: Manual
Exposure time: 00:20



F number: f/2.8
Exposure program: Aperture priority
Exposure time: 1/280

Device make: FUJIFILM
Device model: X-H1
Colour space: RGB
Colour profile: sRGB IEC61966-2.1
Focal length: 17.6 mm
Alpha channel: No
Red-eye: No
Metering mode: Pattern
F number: f/2.8
Exposure program: Manual
Exposure time: 00:40





F number: f/10
Exposure program: Manual
Exposure time: 08:00

X ray film - ISO 100
F64
40 seconds





F number: f/16
Exposure program: Manual
Exposure time: 01:00

Black Nore Lighthouse Portishead



F number: f/22

Exposure program: Manual

Exposure time: 1/15

Black Nore Lighthouse Portishead



F number: f/22
Exposure program: Manual
Exposure time: 04:00



F number: f/10
Exposure program: Manual
Exposure time: 02:00

Stop Press!

Phone apps will do this now E.g. “Spectre” for iphone



Spectre Camera 4+

Brilliant Long Exposures

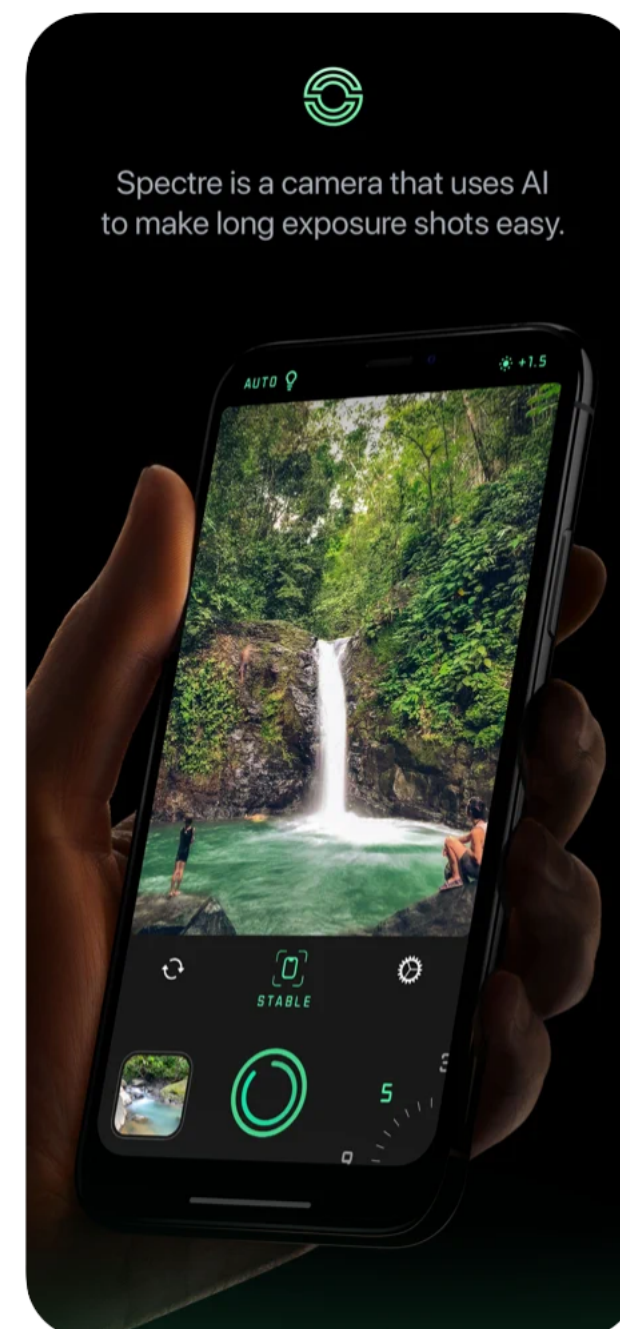
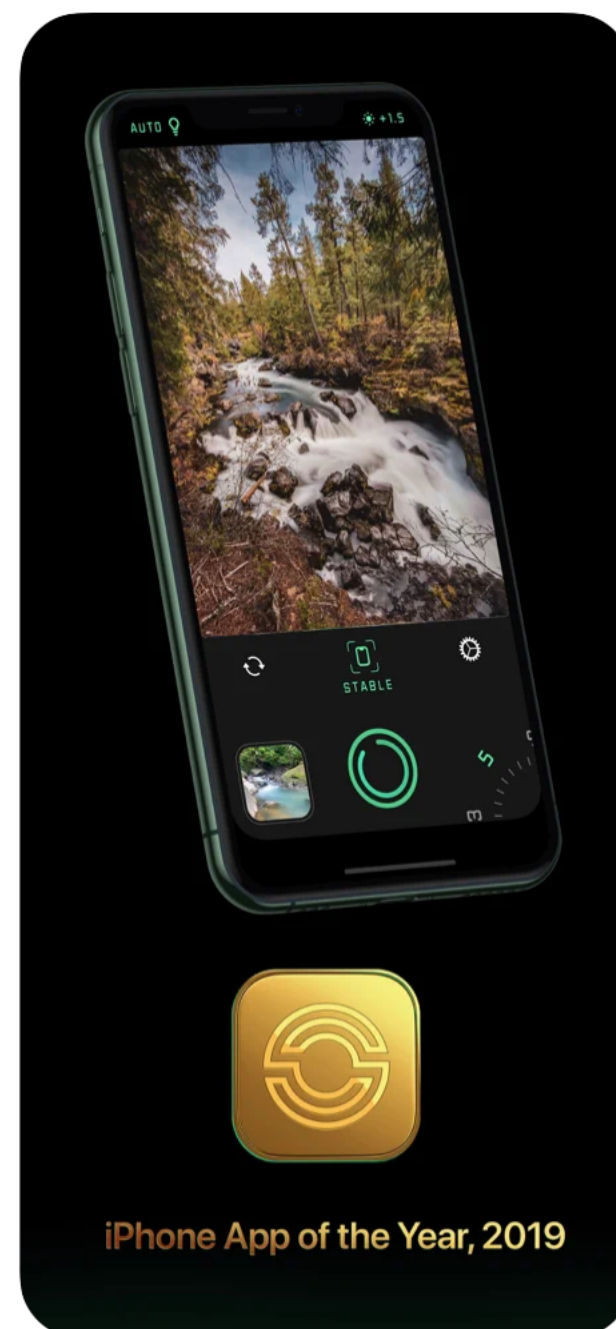
[Lux Optics Incorporated](#)

#53 in Photo & Video

★★★★★ 4.3 • 1.8K Ratings

\$3.99

iPhone Screenshots



"Spectre is a new iOS camera app that uses AI to create stunning long exposures" — the Verge