

NEW PRODUCTS

ASI Cooled Cameras

<http://www.zwoptical.com/>



ZWO Cooled Cameras





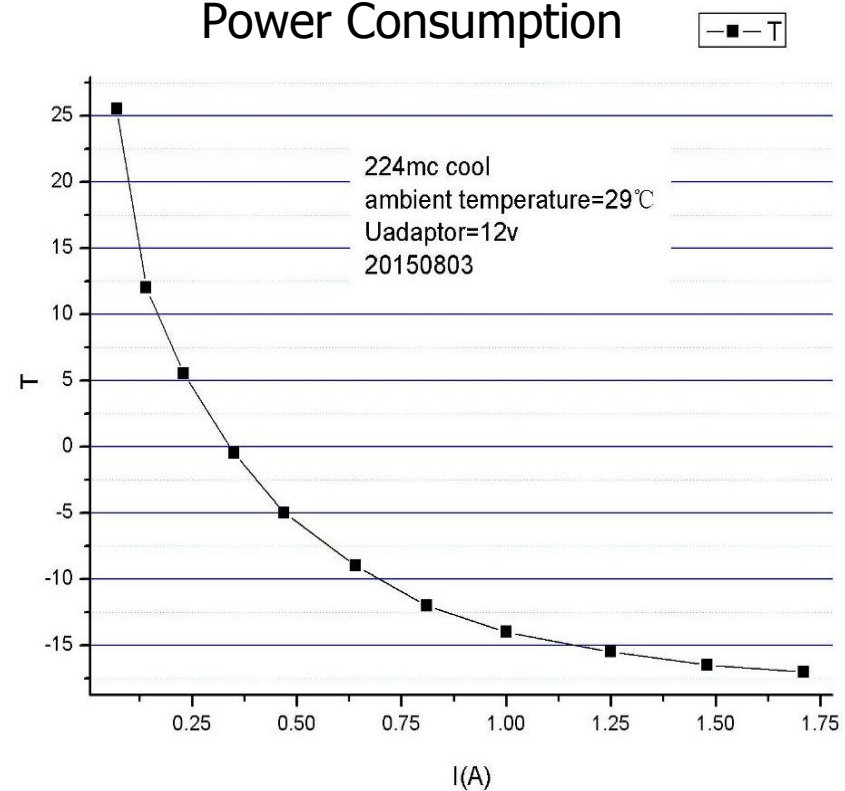
Regulated 2 Stage TEC Cooler

Diameter: 78mm
Weight: 400g (14 oz)

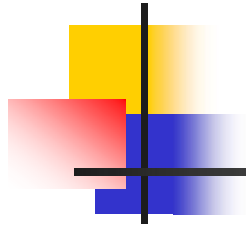
Nearly 2/3 of the
camera body is
A Huge Heat Sink



Power Consumption



The sensor can be cooled to 35~40C below ambient



5 Models to be released

ASI185MC-Cool

ASI224MC-Cool

ASI178MC-Cool



Sensor
Format:
From
1/3"
~
1"

Resolution:
From
1.2M pixels
~
6M Pixels

ASI174MC-Cool

ASI174MM-Cool

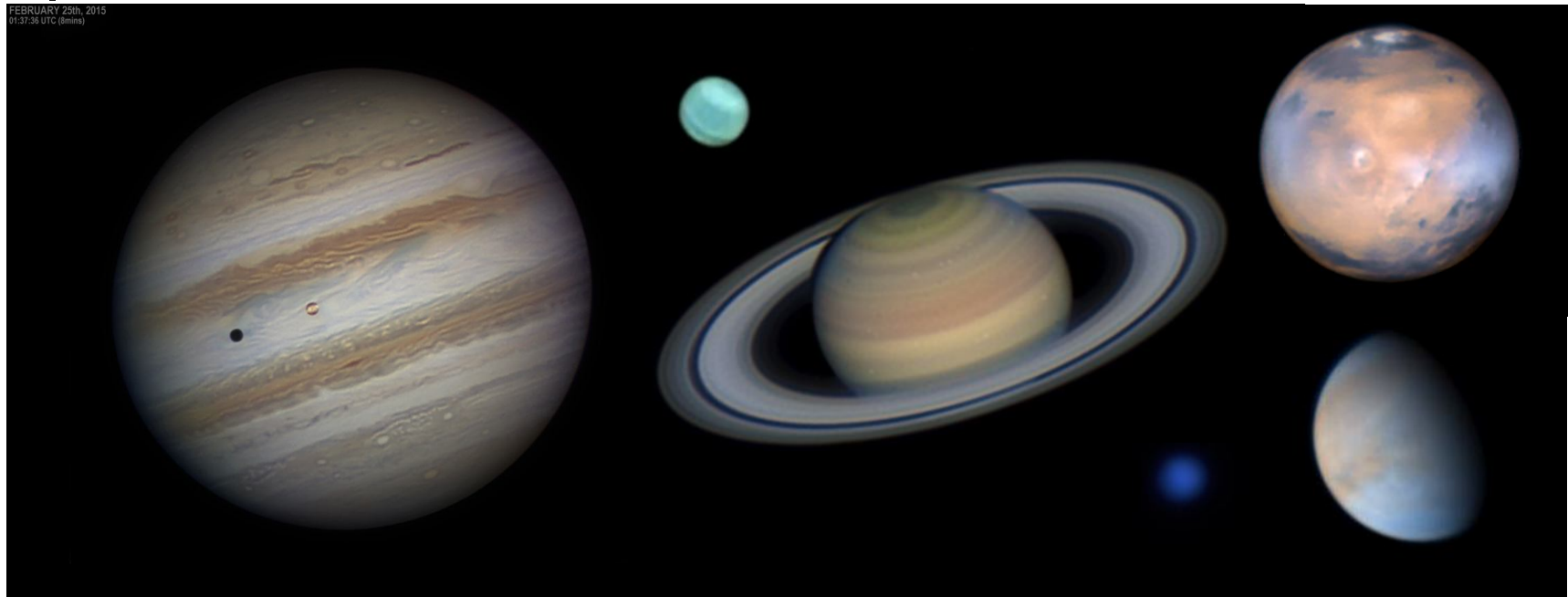


Specifications

Available Models	ASI224MC-Cool	ASI185MC-Cool	ASI178MC-Cool	ASI174MM/MC-Cool
Shutter	Rolling			Global
Pixel Size	3.75um	3.75um	2.4um	5.86um
Full Resolution	1304X976	1944X1224	3096X2080	1936X1216
ADC (Bits)	12-bit	12-bit	14-bit	12-bit
Max FPS	150fps	108fps	60fps	164fps
Back focus Distance	17.5mm			
Protect window	AR	AR	IR-CUT	AR/IR-CUT
Exposure Range	32us ~ 1000s			
Peak QE	TDB	TDB	TDB	78%
Read Noise (e-)	0.8e – 3.2e	1.5e – 3.2e	1.4e – 2.2e	3.5e – 6e
Saturation Capacity (Well Depth) (e-)	19.2 k	22.8 k	15 k	32 K
Cooler Power Supply	12 V @ 2A MAX			
Delta T	35-40 °C			

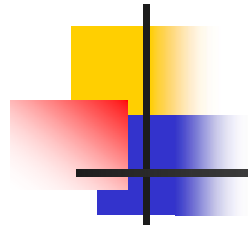


Planetary imaging

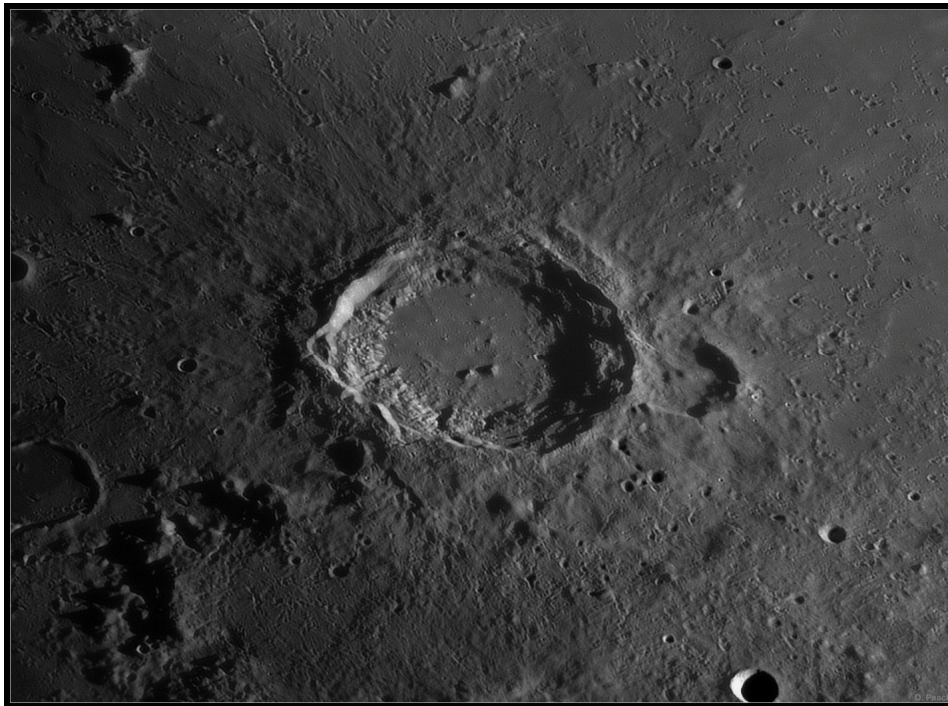


The old ASI Cameras without cooler

They are the **BEST** planetary imaging cameras!



Lunar & Solar Imaging



The old ASI Cameras without cooler

They are the **BEST** Lunar & Solar imaging cameras!



Planetary Nebulae

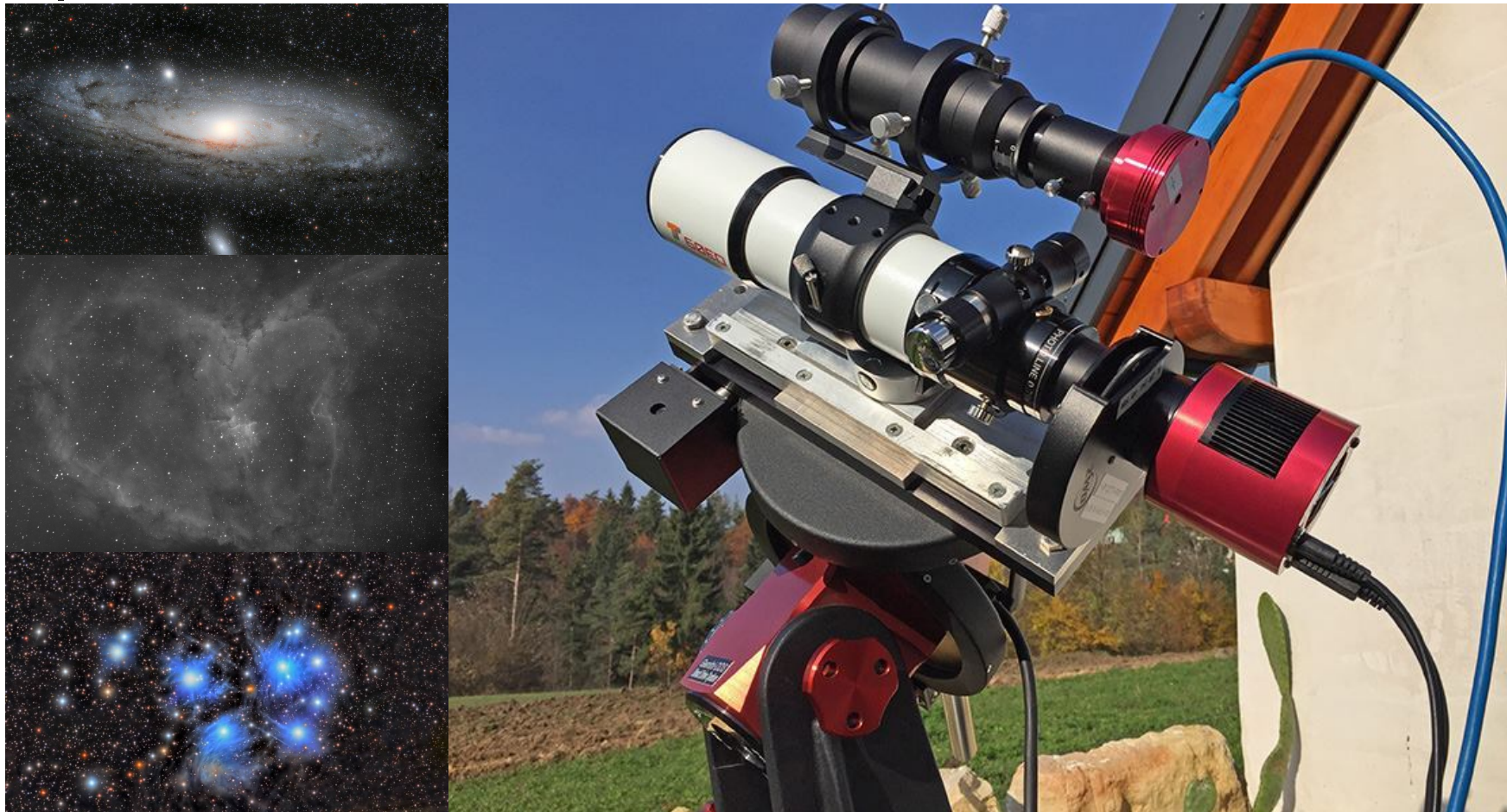


The old ASI Cameras without cooler

They are the **BEST** planetary nebulae imaging cameras!



DSO imaging with the new cooled ASI



Images from Matej with ASI174MM-Cool



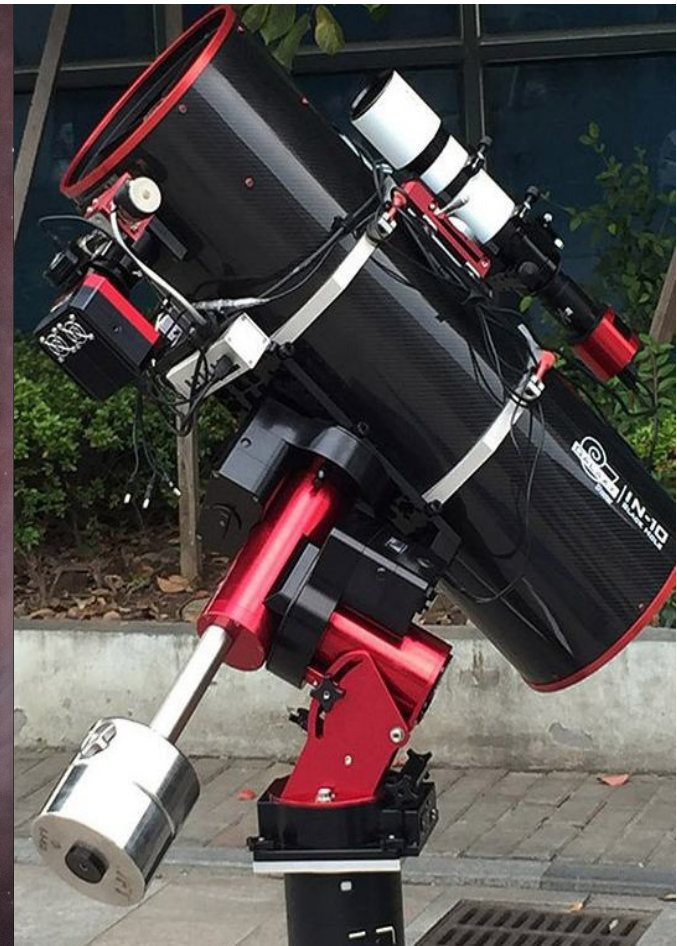
DSO imaging with the new cooled ASI



Images from Matej with ASI224MC-Cool



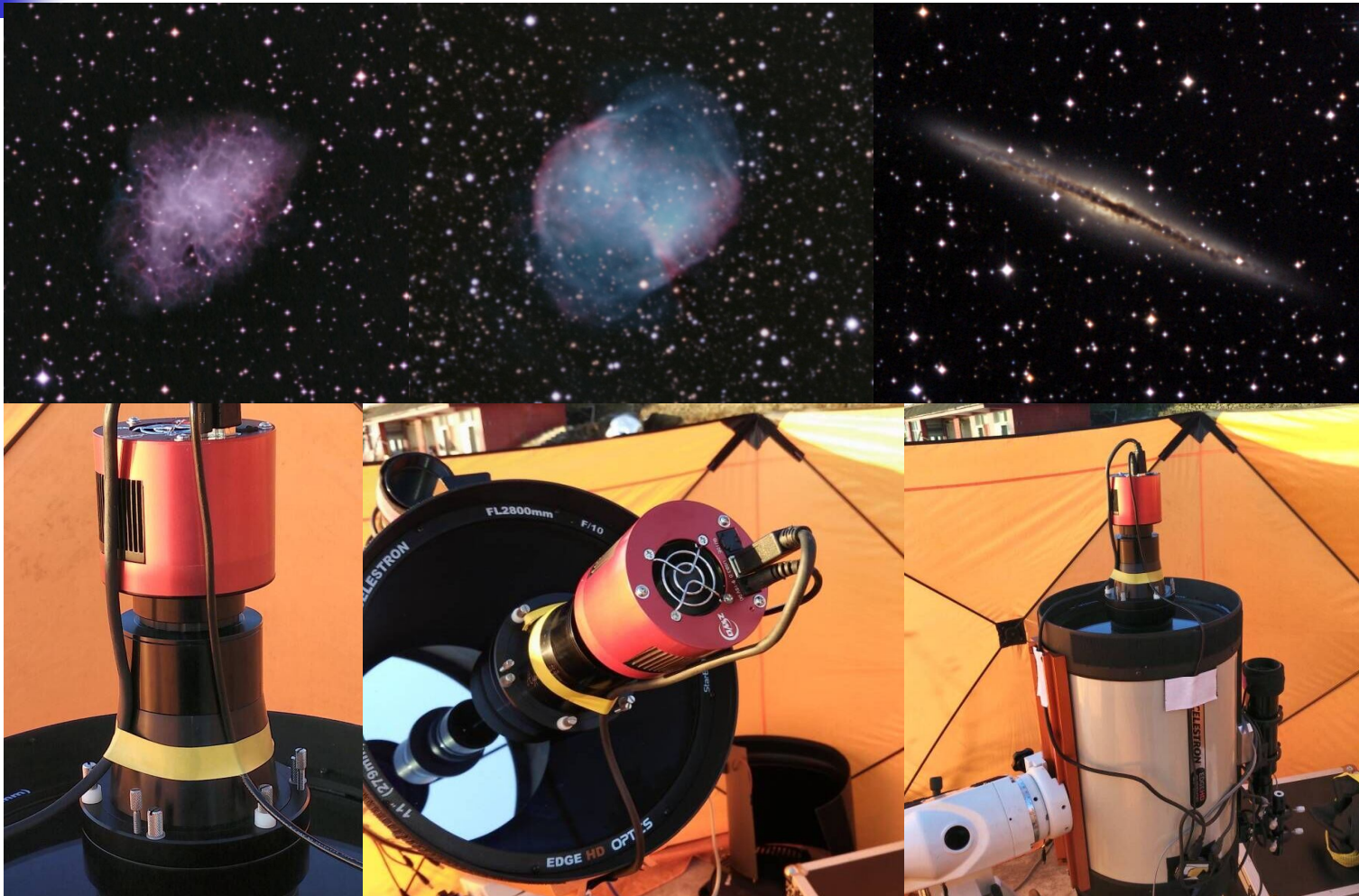
DSO imaging with the new cooled ASI



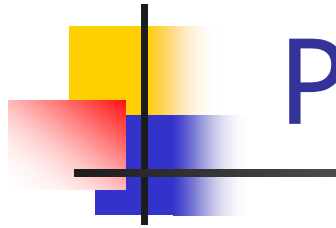
Images from WFT with ASI174MC-Cool



DSO imaging with the new cooled ASI



Images from Thor with ASI178MC-Cool



Pack Contents





Cleaning Sensor & Exchanging Desiccant Tablets



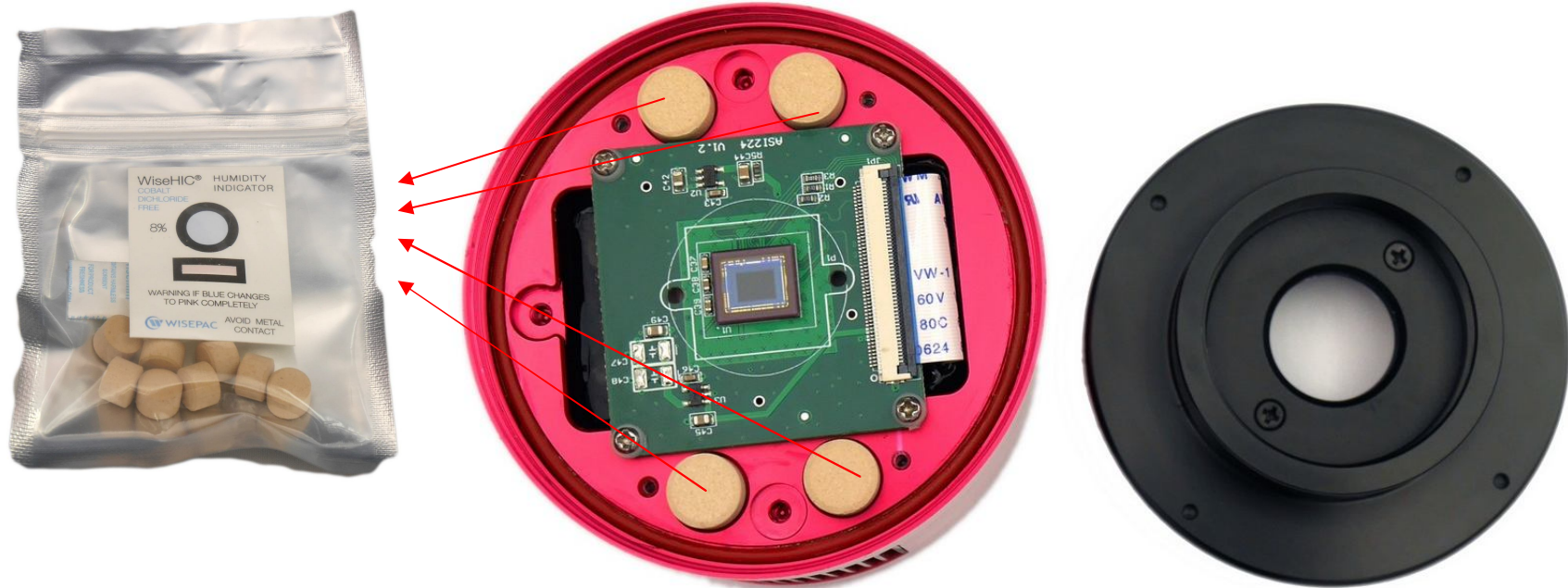
Open the Camera Sensor Room:
just hold the camera body and unscrew
the top part in anticlockwise direction

WARNING: Opening the sensor room is not recommended.
Do not do so unless the sensor is frosting.
Opening the sensor room exposes the tablets and the sensor to humid air.
Shortening the life of the tablets and increasing the risk of sensor frost.

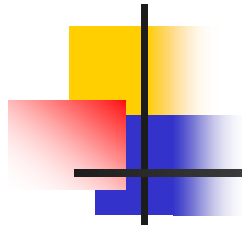


Cleaning Sensor & Exchanging Desiccant Tablets

The desiccant tablets can keep the sensor room dry for years



But if frost shows up on sensor, it is time to exchange them



Mechanical Drawing

单位:mm
Unit:mm

