UFO Capture - Leeds

Recommended settings for camera and capture device

General:

Exposure - 25 fps (non-integrating mode)

Gain – AGC Lo (Hi is often too noisy)

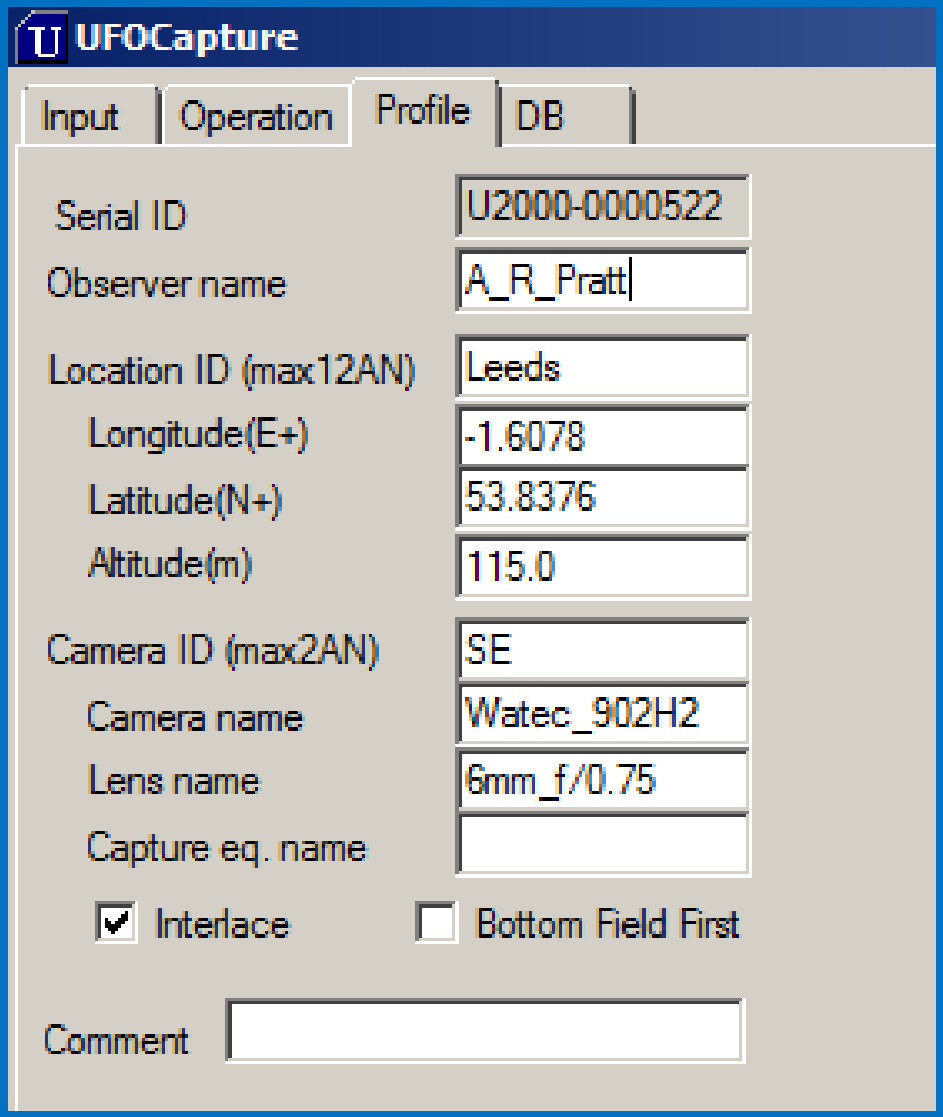
Gamma – Off (=1.0 - to increase contrast, also adjust capture device)

Specific to the Watec 902H Ultimate:

Shutter mode ON
AE Mode Control 8 EI:OFF (stops it ‘hunting’ in twilight)

UFO Capture - Leeds

Profile tab



UFO Capture - Leeds

Operation tab

UFOCapture

Input | Operation | Profile | DB

Single File Mode — Start Detect at Activation

Logging — Do Not Use Trash Box

Still Image Capture

SnapShot(*) — PeakHold(*) — *bmp — *jpg

Thumbnail X: 200 Y: 150 — +Mark

Map bmp — Leave Image of Long Clip

Detect Schedule (LT)

	h	m		h	m	Settings
☐	6	53	to	19	30	...
☑	19	5	to	6	53	...

Auto Adjust to Sun — settings

Auto Restart Interval — 1 hour 0 min

HDD Free Space Check

Minimum Free Space 100 MB (now 25267 MB)

Stop — Delete Oldest in dir

Action

Beep at Capture Start *.wav ...

Action at Capture End *.bat ...

Mail Transfer

Mail — S/Pjpeg — Tjpeg — Mail Settings

FTP Transfer

FTP — S/Pjpeg — Tjpeg — wmv

+no. 8 Clear — FTP Settings

Maintenance

UFOCapture V 2.24

Read Settings — Save Settings

save as template

Registration — re-install ax

UFOCapture Detect Schedule Adjust Settings

Longitude : -1.6078, Latitude : 53.8376

Month 09 Day 23 (LT) Sunrise 06:53 Sunset 19:05

Schedule1 (Day) 06:53 to 19:05

Sunrise + 0 min To Sunset + 0 min

Schedule2 (Night) 19:05 to 06:53

Sunset + 0 min To Sunrise +

Start with Replay sheet (power save)

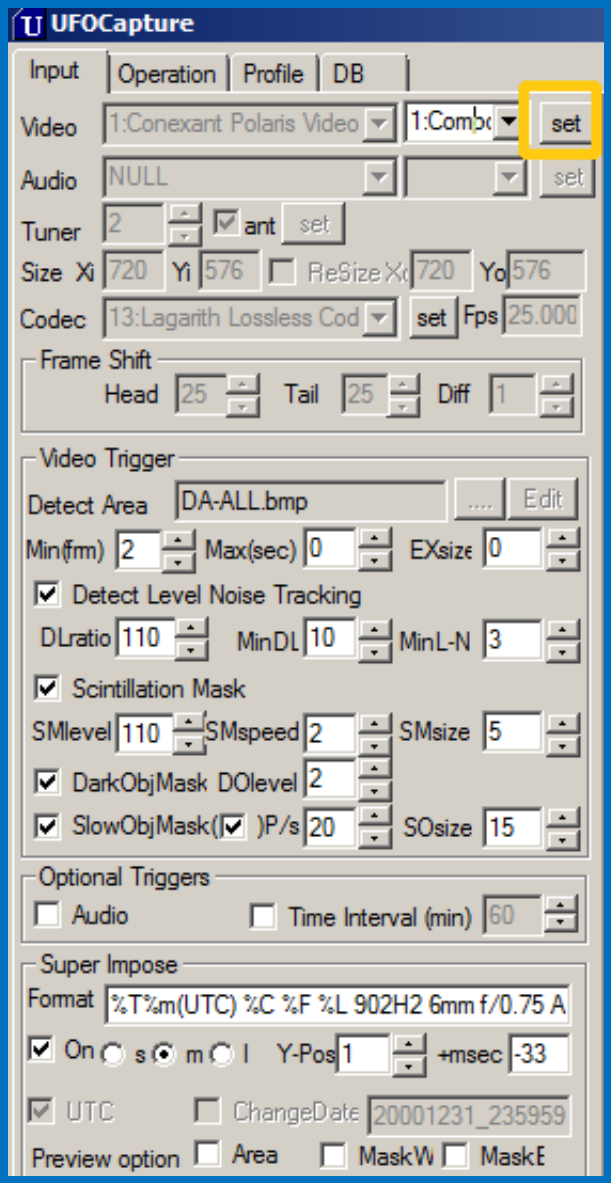
Shutdown after detect end

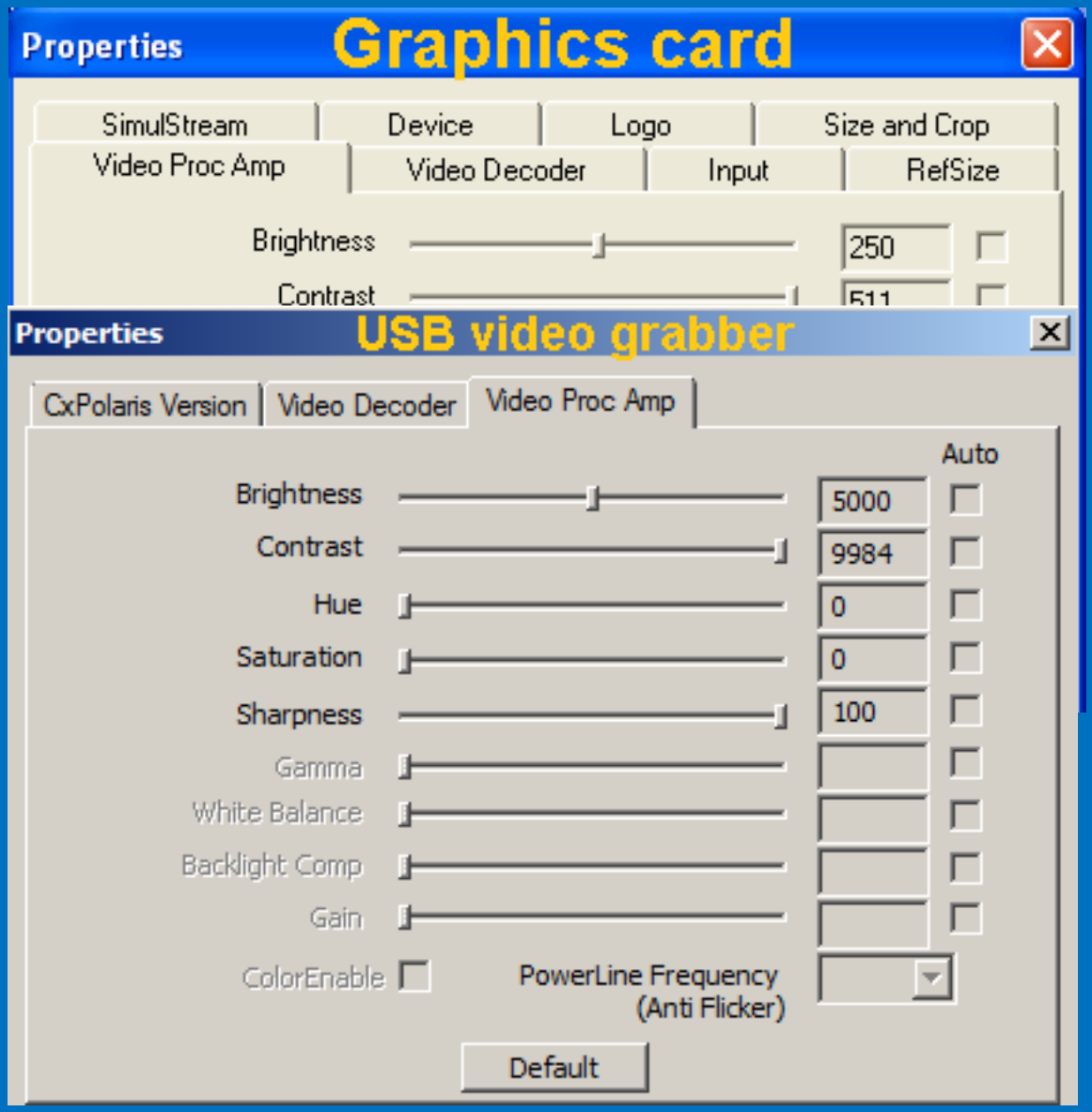
Manual startup

Automatic shutdown

UFO Capture - Leeds

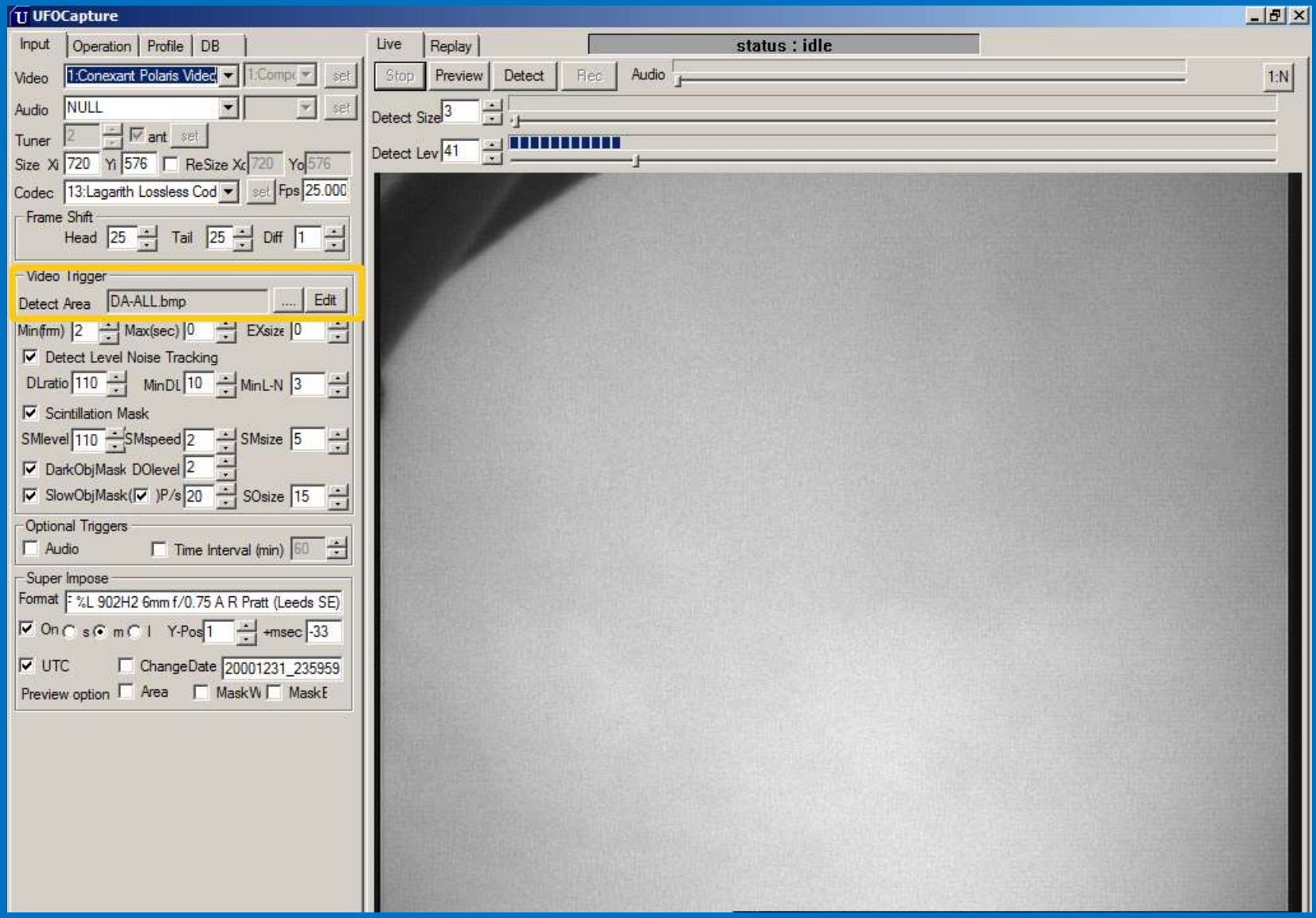
Input tab – Capture device settings





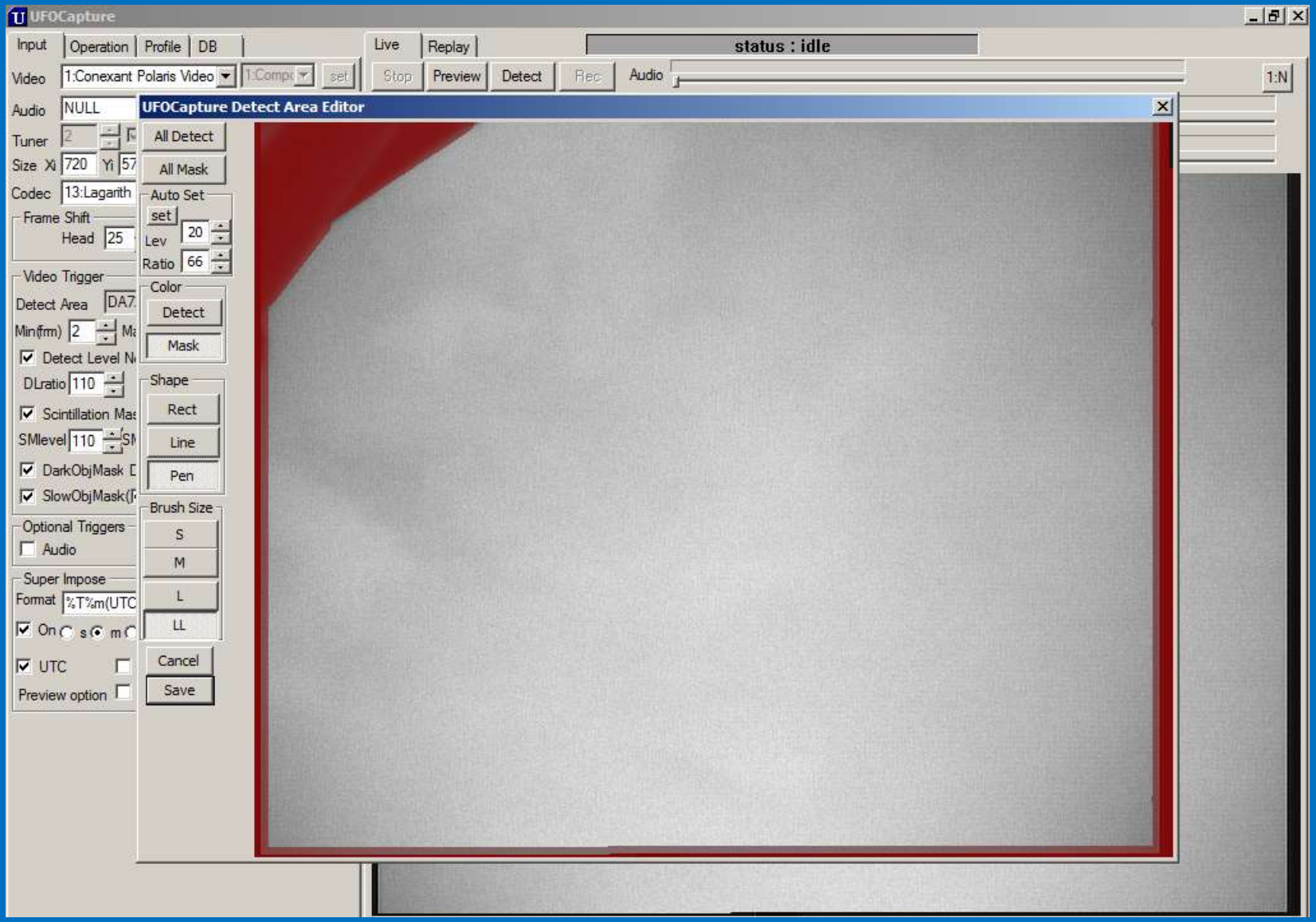
UFO Capture - Leeds

Input tab – Detect Area mask



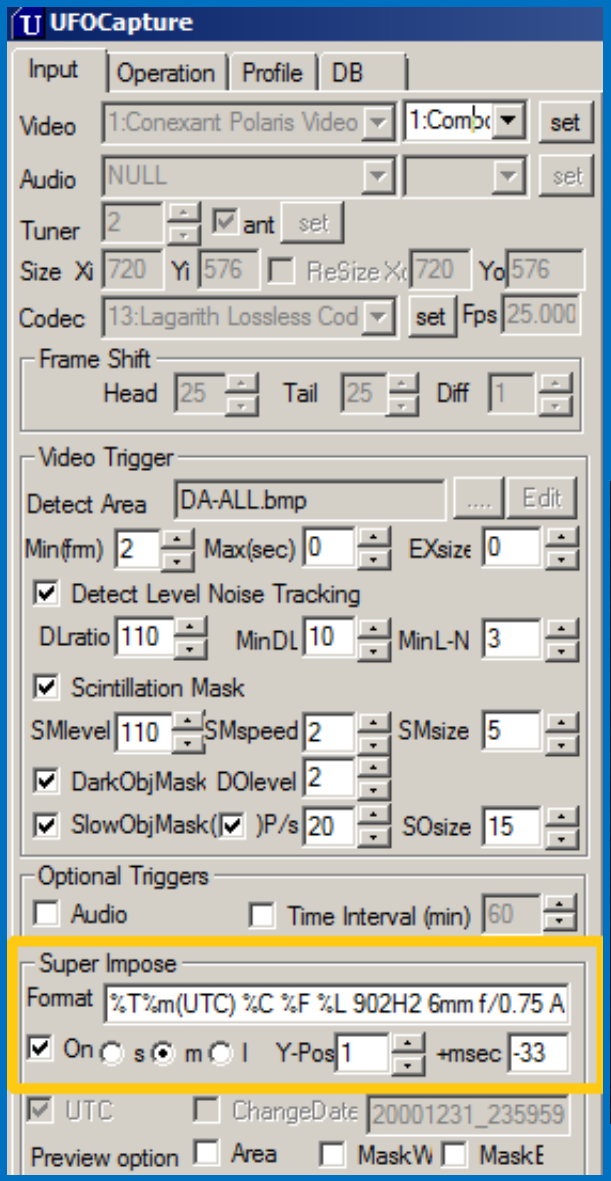
UFO Capture - Leeds

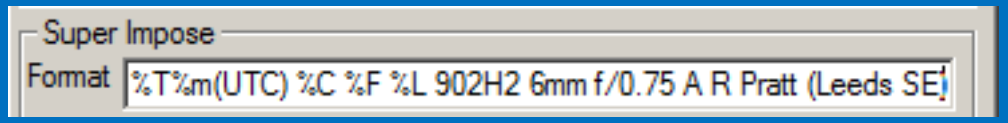
Input tab – Detect Area mask



UFO Capture - Leeds

Input tab – Superimpose setting





Auto-documents camera, lens and site details

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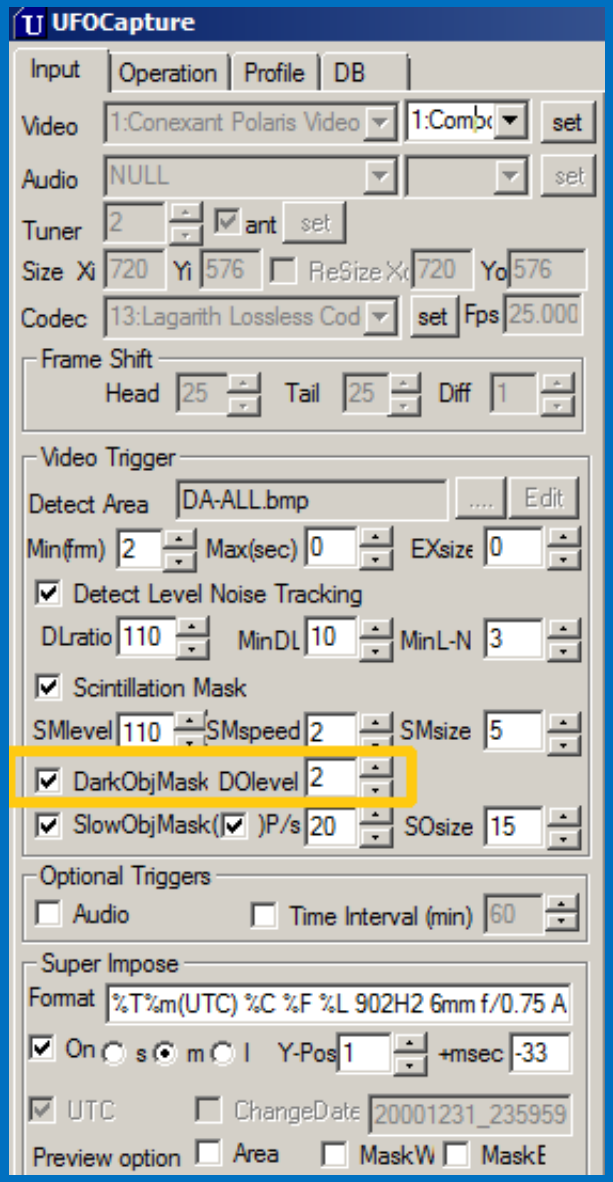
Input tab – Dark Object mask



Reduces detection of birds in silhouette, etc

Set DOlevel to 0, 1 or 2

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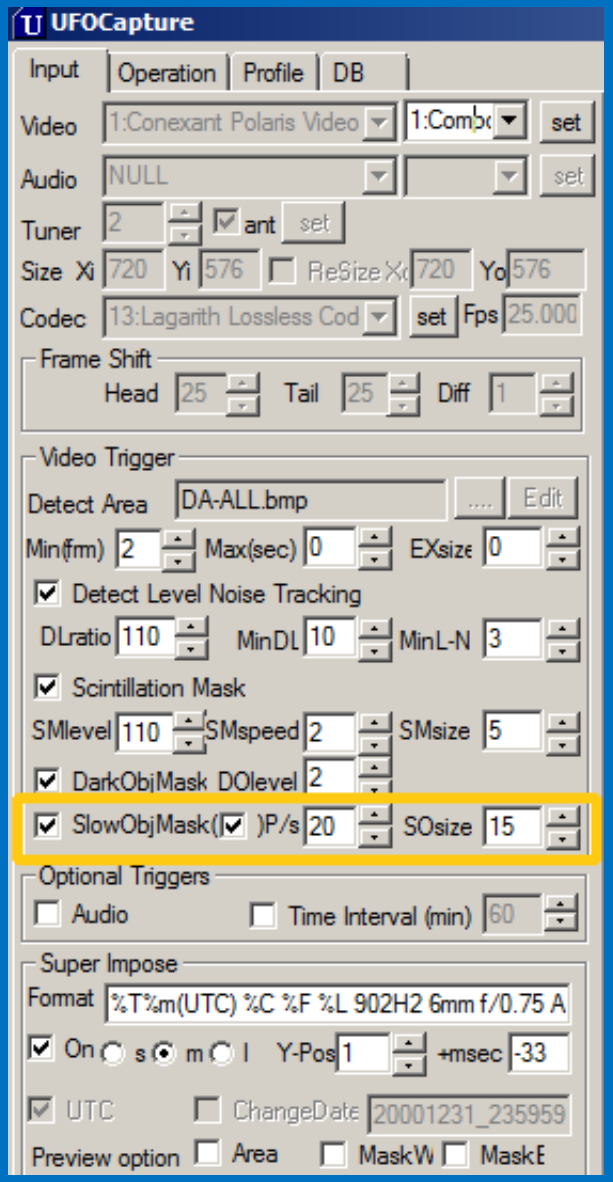
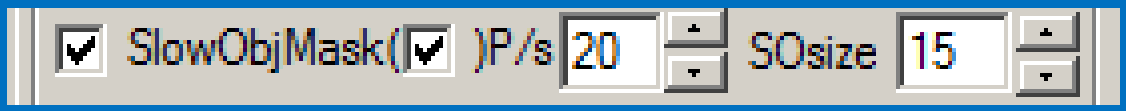
Input tab – Slow Object mask





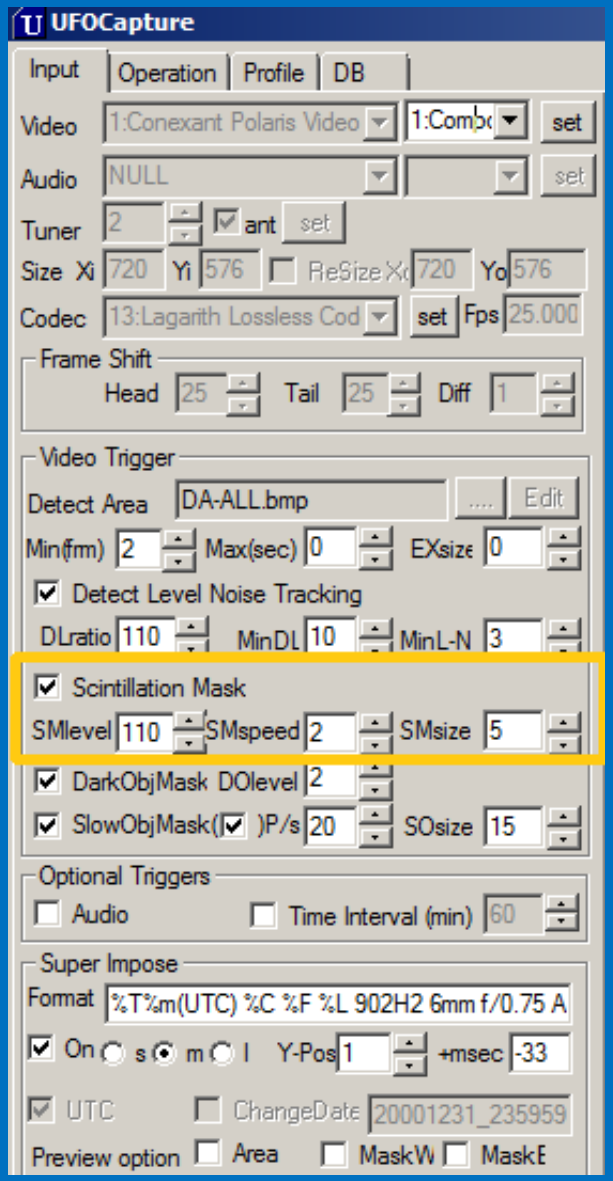
Reduces detection of ‘planes and satellites

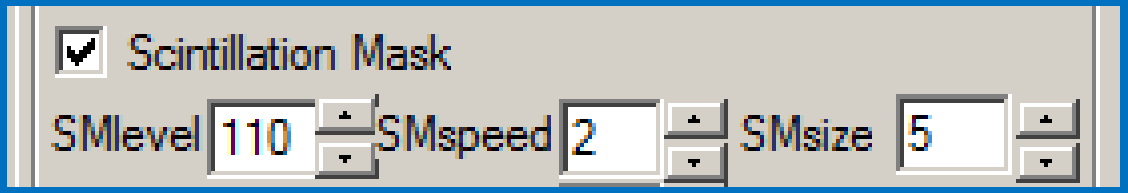
Set Pixel/s to:
15 for a 3.8mm lens
40 for a 12mm lens

Default value of SOsize is 15

UFO Capture - Leeds

Input tab – Stellar scintillation mask





An SMlevel of 110 detects scintillation values 10% above average background level

Default SMspeed is 2
Increase this if heavy scintillation

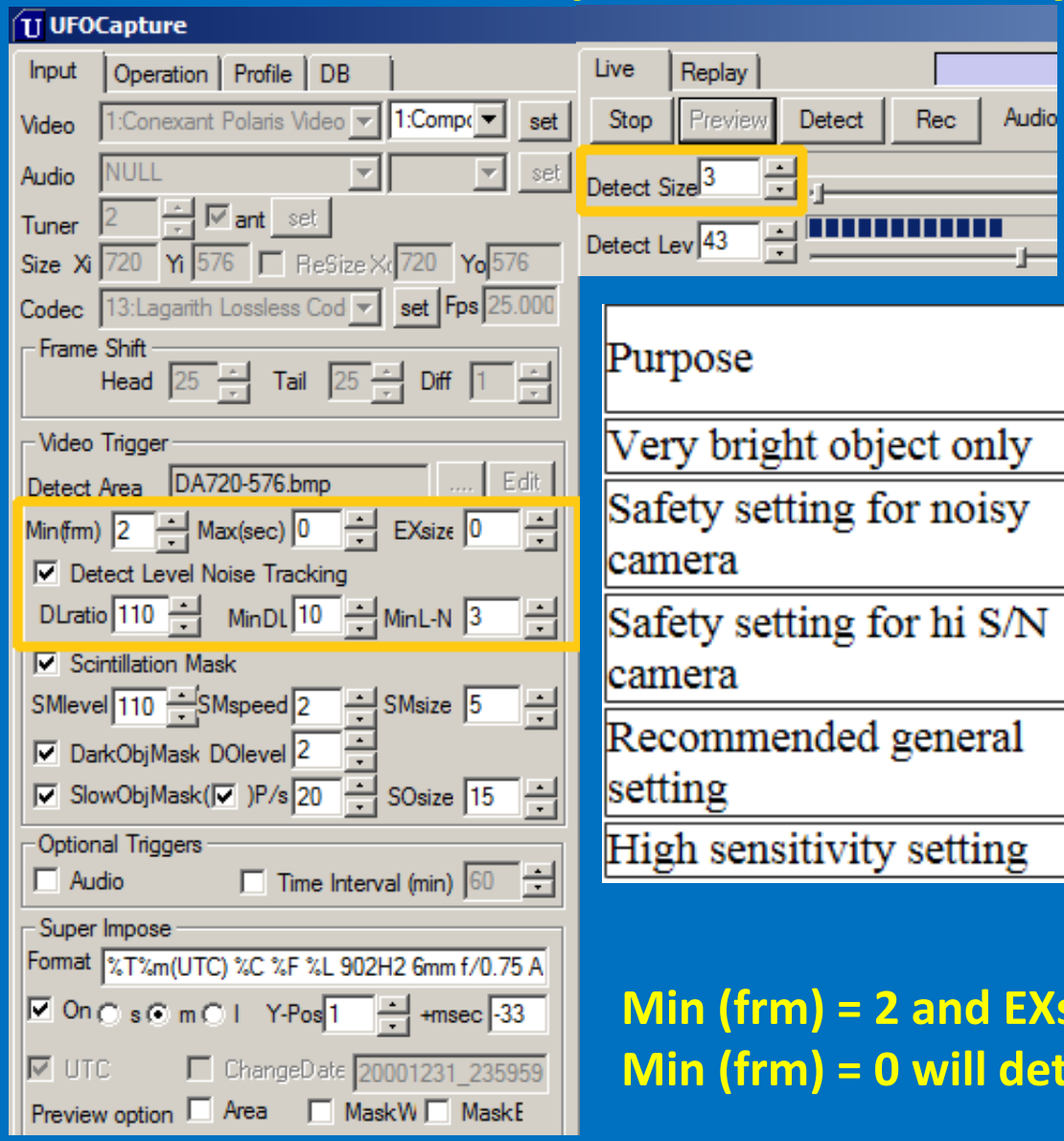
Default SMsize is 5
Increase if poor seeing / unsharp images
Decrease if good seeing / sharp images

UFO Capture - Leeds

Input tab – Stellar scintillation mask

UFO Capture - Leeds

Input tab – Sensitivity tuning



Purpose	DLratio	MinDL	MinL-N	Detect Size
Very bright object only	200	20	10	30
Safety setting for noisy camera	120	20	8	5
Safety setting for hi S/N camera	110	10	5	5
Recommended general setting	110	10	3	3
High sensitivity setting	105	5	2	2

Min (frm) = 2 and EXsize = 0 – recommended for meteors
Min (frm) = 0 will detect meteors, sprites, noise…

UFO Capture - Leeds

Recommended reference sources

UFO Capture Night Sky Observation Guide

http://sonotaco.com/soft/NSOG/index.html

UFO Capture User's Manual

http://sonotaco.com/soft/UFO2/help/english/index.html