

ROWE-ACKERMANN 8

F/2.0 SCHMIDT ASTROGRAPH

The ideal low-cost solution for
Sky Surveys, NEO Search, Wide-Field Imaging
and Space Situational Awareness



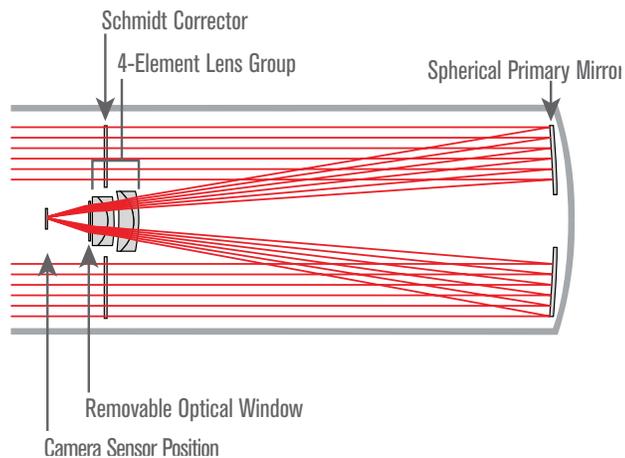
PROFESSIONAL FEATURES

Aperture	8 inches (203.0 mm)
Focal Ratio	f/2.0
Spectral Range	390 - 800 nm
RMS Spot Diameter	< 4.55 μ m
Field of View	3.15° on 22.0 mm diagonal sensor Usable field extends to 4.6° covering 32 mm sensor
Focuser	Ultra-Stable Focus System virtually eliminates image shift
Total instrument weight	17 lbs

WITHOUT A PROFESSIONAL PRICE

Suggested Retail	\$2,199
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8-inch aperture
 f/2.0 focal ratio
 3.15° field of view
 22.0 mm image circle
 < 4.55 μ m RMS spot size
 across field of view



ROWE-ACKERMANN F/2.2 SCHMIDT ASTROGRAPH

11 v2

An affordable choice for deeper
**Sky Surveys, NEO Search, Wide-Field Imaging
and Space Situational Awareness**



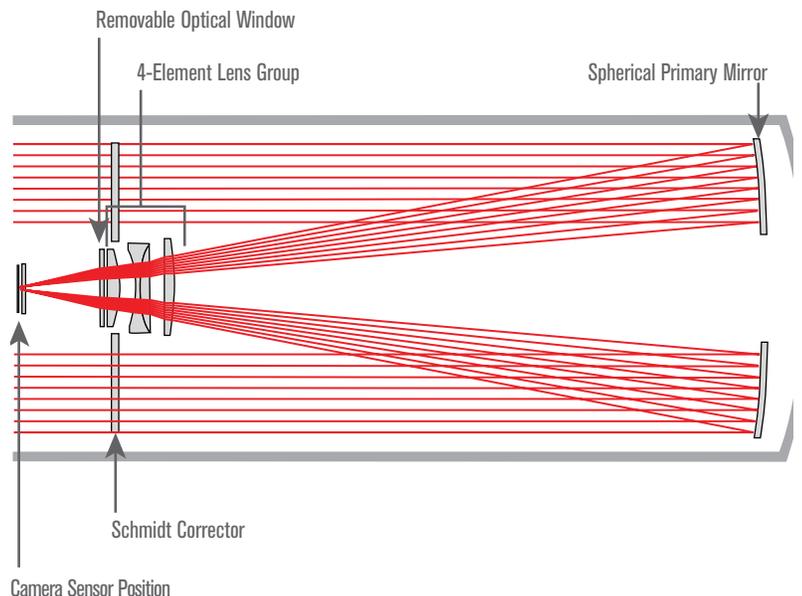
PROFESSIONAL FEATURES

Aperture	11 inches (279.4 mm)
Focal Ratio	f/2.2
Spectral Range	400 - 700 nm
RMS Spot Diameter	< 4.4 μm RMS across FOV
Field of View	4.0 degrees on 43.3 mm diagonal sensor Usable field extends to 4.8 degrees covering 52 mm sensor
Focuser	Ultra-Stable Focus System virtually eliminates image shift
Total instrument weight	35 lbs

WITHOUT A PROFESSIONAL PRICE

Suggested Retail	\$4,499
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11-inch aperture
f/2.2 focal ratio
4.0 ° field of view
43.3 mm image circle
< 4.4 μm RMS spot size
across field of view



ROWE-ACKERMANN 36cm v2

F/2.2 SCHMIDT ASTROGRAPH

The ultimate practical instrument for
Sky Surveys, NEO Search, Wide-Field Imaging
and Space Situational Awareness



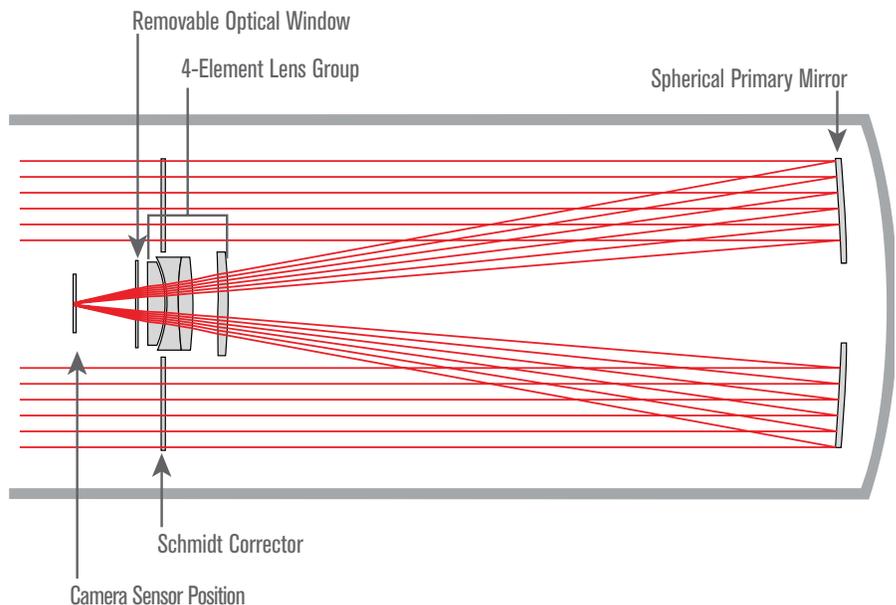
PROFESSIONAL FEATURES

Aperture	36 cm (355.6 mm)
Focal Ratio	f/2.2
Spectral Range	400 - 900 nm
RMS Spot Diameter	< 6.25 μm across field of view
Field of View	4.4 degrees on 61.3 mm diagonal CCD Usable field extends to 5.1 degrees covering 70 mm CCD
Focuser	New Ultra-Stable Focus System virtually eliminates image shift
Total instrument weight	75 lbs

WITHOUT A PROFESSIONAL PRICE

Suggested Retail	\$14,999
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14-inch aperture
 f/2.2 focal ratio
 4.4 ° field of view
 60.1 mm image circle
 <6.3 μm RMS spot size
 across field of view



COMPARE WITH THE COMPETITION

MANUFACTURER	MODEL	APERTURE (MM)	FOCAL RATIO	FIELD OF VIEW (DEG)	CENTRAL OBSCURATION (AREA)	SPECTRAL RANGE (NM)	PRICE (\$)	GEO SEARCH SENSITIVITY (VIS MAG)	TYPICAL GEO SEARCH RATE (SQ DEG/HR)	NEO SEARCH SENSITIVITY 100 SEC EXPOSURE
Celestron	RASA 8	203.2	2.0	3.15	21.0%	390-800	\$2,199	13.9	1080	19.0
Celestron	RASA 11 v2	279.4	2.2	4.00	16.6%	400-700	\$4,499	15.4	1,694	19.7
Celestron	RASA 36 cm	355.6	2.2	4.44	19.7%	400-900	\$14,999	15.8	2,091	20.2
Celestron	C-11 HyperStar	279.4	2.0	2.86	12.3%	486-656	\$4,599	14.9	869	18.7
Celestron	C-14 HyperStar	355.6	1.9	2.76	12.3%	486-656	\$8,199	15.3	809	19.2
Officina Stellare	RiFAst 300	300.0	3.8	3.00	30.3%	410-750	\$18,900	14.6	946	19.9
Officina Stellare	RiFAst 400	400.0	3.8	2.96	30.3%	410-750	\$27,000	14.8	543	20.4
Officina Stellare	Veloce RH 200 AT	200.0	3.0	4.01	30.3%	430-700	\$8,995	14.4	1,702	18.9
Officina Stellare	Veloce RH 350 AT	300.0	3.0	3.82	30.3%	430-700	\$35,986	14.8	1,544	19.7
Takahashi	Epsilon 180	180.0	2.8	5.04	19.8%	436-656	\$4,670	14.2	2,688	18.9
Takahashi	CCA-250 (0.7x)	250.0	3.6	3.86	25.0%	436-656	\$17,990	14.2	1,579	19.5

All specifications based on advertised values. Prices as of August, 2025. Sensitivity calculations assume FLI ML50100 CCD camera, 6 μm pixels, 1x1 pixel binning, 12 electrons read noise, 6:1 signal to noise ratio, observing site near equator, 0.1 km above sea level, 1 arc sec seeing, 7 days to or from full moon. Search rate assumes 4 frames per field at 3 sec per frame (integration + read) followed by a 5 sec move to the next field.

For more information visit:
celestron.com/rasa

For further technical inquires email:
RASA@celestron.com