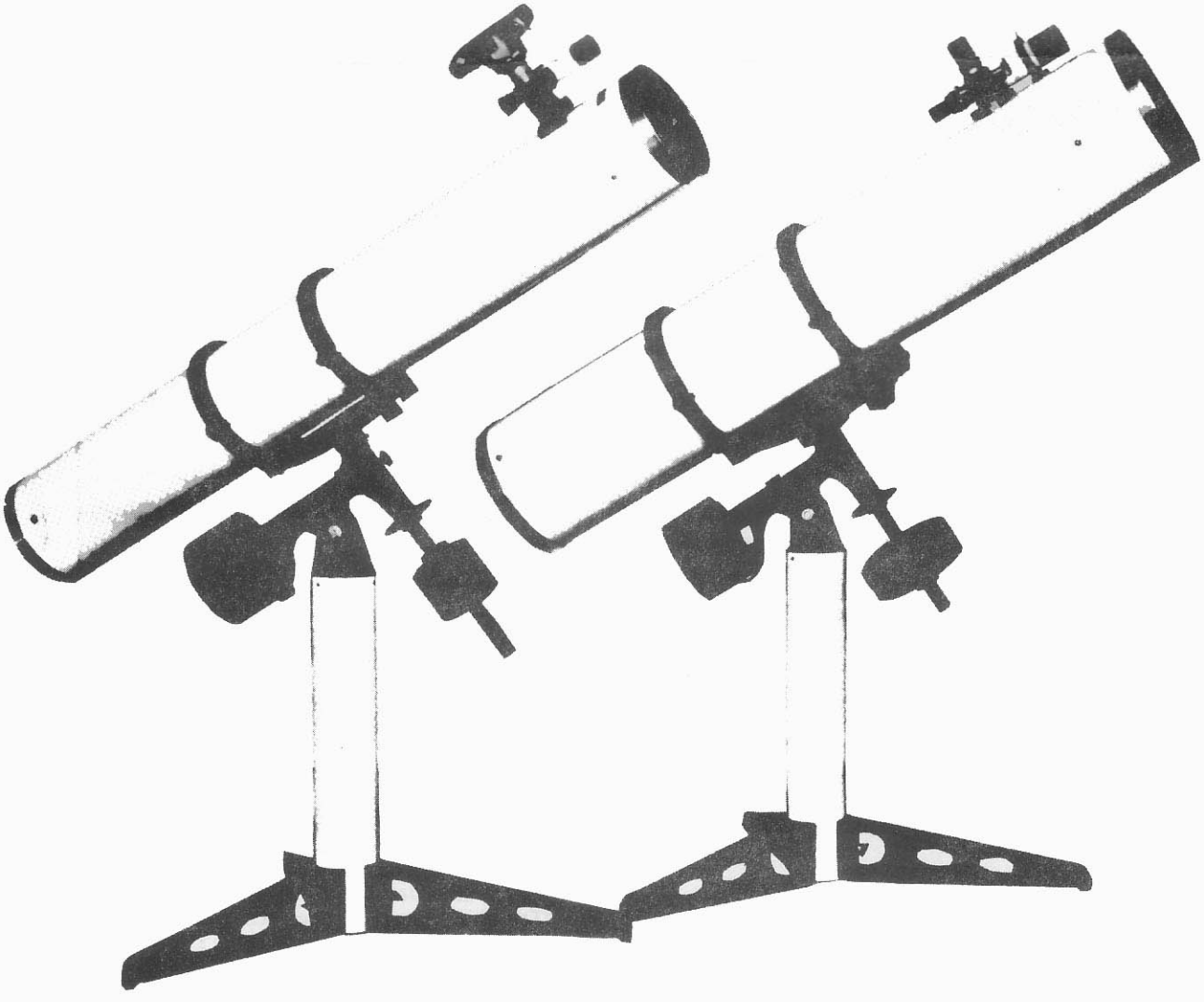
6" & 8" DISCOVERER

THE OPTICAL CRAFTSMEN

THE FINEST NAME IN NEWTONIAN AND NEWTONIAN CASSEGRAIN TELESCOPES



6 inch *8 inch*

(SHOWN WITH OPTIONAL OM-1 ASTROCAMERA)

DIXIE TELESCOPES

P O BOX 370
DOUGLASVILLE GA 30133-0370
(404) 942-2931

OPTICAL SYSTEM f/6

PRIMARY MIRROR — Fine annealed Pyrex, **hand figured** to better than 1/10th wave, aluminized and quartz overcoated. 1/10th wave matching secondary for maximum field coverage in deep sky photography as well as for visual observing. Aluminized and quartz overcoated.

EQUATORIAL MOUNT

Fully adjustable for latitude. Strong, correctly proportioned design. Declination and polar housings are machined precisely 90 degrees to each other (essential for accurate tracking and locating). Solid steel shafts are centerless ground to better than 0.0005 inch tolerance for absolutely no-play smooth operation, and hard chrome plated for lasting beauty. Legs are rigid cast iron. (Iron provides more mass at bottom of mount for greater stability; something aluminum, as used with other makes, cannot do). Our mounts are designed so that the legs can be attached or removed without turning the entire pier upside down, as must be done with other mounts. OPTICAL CRAFTSMEN mounts are nearly twice as massive as competitive brands.

MOTOR DRIVE SYSTEM

MOTOR DRIVE — Sidereal rate, synchronous drive. The most powerful in its field. Drive rate is correct to within four seconds per day. (Over 50 times greater accuracy than competitive drives.)

AUTOMATIC DRIVEN R.A. SETTING CIRCLE — One setting on a known star at the beginning of the evening permits direct reading thereafter. (There is never any need to compute sidereal time or hour angle, or to re-set the telescope on some reference object every few minutes, as must be done with other makes of instruments. Although this system is more costly to manufacture, it is far easier for the observer to use.

AUTOMATIC CLUTCH — Nylon clutch permits the telescope to be moved manually from one sky object to another, with the motor drive taking over and following accurately once the object is in view.

FULLY ROTATING TUBE

Tube can be rotated to any desired observing position. Cradle rings are stronger and spaced farther apart than competitive brands. (This is very important to achieve the stability needed to do serious astrophotography).

STRONGER, LIGHTER TUBE — After years of research and testing, we have developed a telescope tube that will not crack, split, chip or dent as can happen with materials commonly used in other brands. These tubes are much stronger and very rigid, yet are lighter and have excellent thermal stability. Our tubes are virtually unbreakable. Tubes have smooth off-white exterior with anti-reflective black interior. Polished aluminum end rings are included for added beauty.

TWO FULLY COATED EYEPIECES PLUS VARIABLE BARLOW

Our American standard achromatic and orthoscopic eyepieces give very sharp and crisply defined images, even at high magnifications. Apparent field is a full 50 degrees. A 1.6 to 3x variable barlow is included with each telescope to give you a wide range of magnifications for all types of viewing situations. The following focal lengths are included with each telescope:

6"f/6 26mm (35x)9mm Orthoscopic (100x) to (300x) with Barlow.

8"f/6 26mm (46x)9mm Orthoscopic (135x) to (405x) with Barlow.

See price list for optional eyepieces.

NOTE:

(60x per inch of aperture is the universal rule of thumb, recommended by professional astronomers, for measuring the maximum useful magnification obtainable with any given instrument under excellent "seeing" conditions. Beware of some manufacturer's claims of higher than 60x per inch obtainable with their instruments. We feel their claims are both misleading and unethical. In comparing some of these same manufacturer's instruments; we found them unable to deliver a usable image at only 40x per inch under excellent "seeing" conditions.

FOCUSER

Velvet action rack and pinion with heavy-wall draw tube; accepts all standard 1¼" eyepieces. Precision machined for no-play no-bind operation. Attractively finished in black wrinkle, with large adjusting knobs. Full 3 inches of travel for both visual and photographic applications.

FINDER

Deluxe 6x30 wide field, fully achromatic with coated optics, crosshair reticle; adjustable two ring mount.

FINISH

Pedestal stand has baked off-white exterior; remainder of mount is black wrinkle. Tube is off-white. All finishes are extra durable. (The Discoverer's appearance matches its excellence in workmanship and performance; here's an instrument you will be proud to own!)

A COMPLETE SET OF INSTRUCTIONS IS INCLUDED.

(220v-50Hz motor drive is available for foreign operation.)

DIXIE TELESCOPES

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THE OPTICAL CRAFTSMEN

PLACE ORDERS WITH
DIXIE TELESCOPES
P.O. BOX 370
DOUGLASVILLE, GA 30133
(404) 942-2931

RETAIL PRICE LIST

Effective February 1, 1982

DISCOVERER SERIES TELESCOPES

		Packing charge
4¼" f/10	$289.95 f.o.b.	$10
4¼" f/5	$299.95 f.o.b.	$10
4¼" f/5 or f/10 on 6" Mount	$399.95 f.o.b.	$15
6" f/6	$489.95 f.o.b.	$15
8" f/6	$569.95 f.o.b.	$20

DISCOVERER SERIES EQUATORIAL MOUNTS

		Packing charge
4¼"	$195 f.o.b.	$10
6"	$239 f.o.b.	$10
8"	$279 f.o.b.	$10

CONNOISSEUR SERIES TELESCOPES

		Packing charge
8" f/6	$1295 f.o.b.	$40
10" f/6	$1595 f.o.b.	$50
12½" f/6	$2595 f.o.b.	$60
14¼" f/6	$3495 f.o.b. *	

CONNOISSEUR SERIES EQUATORIAL MOUNTS

		Packing Charge
8"	$995 f.o.b.	$25
10"	$1095 f.o.b.	$30
12½"	$1695 f.o.b.	$40

* No packing charge. Shipped assembled via truck (Continental U.S. only)

16" and 20" - See Observatory Series Telescopes.

SEE DIXIE TELESCOPES PRICE-BUSTING SPECIAL #24

EYEPIECES

26mm Achromatic	$19.95 ppd
9mm Orthoscopic	$25.95 ppd
* Tele Vue Plossl	
7.4, 10.4, 13, 17, 21, 26mm	Each $55.00 ppd
40 mm	Each $70.00 ppd

*SEE OUR PRICE-BUSTING SPECIAL #14

BARLOWS

1.6x - 3x Variable Barlow Lens	$27.95 ppd
2.5x Tele Vue Barlow Lens	$55.00 ppd

NEBULAR FILTER 1¼" ..... $57.95 ppd

2x Economical Barlow Lens..... $23.95ppd

THREAD-IN COLOR FILTERS 1¼"
#8 light yellow, #11 yellow green, #12 yellow, #21 orange, #23A light red, #47 violet, #58 green, #80A blue, Polarizer (30% trans.) ..... Each $7.95 ppd

VIEWFINDERS

6x30 with bracket	$24.95 ppd
6x30 Right angle with bracket	$29.95 ppd
8x50	$47.95 ppd
8x50 Right angle	$54.95 ppd
8x50 Mounting Rings	$12.95 ppd

MANUAL DECLINATION

Discoverer Series	$35.95 ppd
Connoisseur Series	$74.95 ppd
Manual R.A.	
Discoverer Series	$14.95 ppd

TUBE COUNTERWEIGHTS ..... $29.95 ppd

SPIDERS/DIAGONAL HOLDERS

	Minor axis size					
Tube Size	1.33	1.55	1.83	2.14	2.6	3.1
5" O.D.	9.95	10.95	11.95	12.95	24.95	
7¼" O.D.	13.95	14.95	15.95	16.95	19.95	24.95
9 5/8" O.D.		16.95	17.95	18.95	21.95	26.95
12 1/8" O.D.			19.95	20.95	23.95	28.95
16 1/8" O.D.			21.95	22.95	25.95	33.95

All Spiders Shipped Postpaid

MIRROR CELLS

6" Cell (7¼" O.D. tube) ..... $13.95 ppd
8" Cell (9 5/8" O.D. tube) ..... $14.95 ppd
10" Cell (12¼" O.D. tube) ..... $31.95 ppd
12½" Cell (16½" O.D. tube) ..... $39.95 ppd

Telescope Tubing (same as used in our complete telescopes)

		Packing Charge
4¼" Mirror		
5" O.D. x 24"	$29.00 f.o.b.	$5
5" O.D. x 44"	$32.00 f.o.b.	$5
6" Mirror		
7¼" O.D. x 30" to 38"	$42.00 f.o.b.	$5
7¼" O.D. x 39" to 60"	$45.00 f.o.b.	$5
Aluminum end rings	per pair $10.95 ppd	
8" Mirror		
9 5/8" O.D. x 30" to 40"	$45.00 f.o.b.	$5
9 5/8" O.D. x 41" to 60"	$50.00 f.o.b.	$5
9 5/8" O.D. x 61" to 75"	$55.00 f.o.b.	$5
Aluminum end rings	per pair $12.95 ppd	
10" Mirror		
12¼" O.D. x 40" to 48"	$69.00 f.o.b.	$7
12¼" O.D. x 41" to 62"	$74.00 f.o.b.	$7
12¼" O.D. x 63" to 75"	$79.00 f.o.b.	$7
Aluminum end rings	per pair $14.95 ppd	
12½" Mirror		
16½" O.D. x 48" to 59"	$89.00 f.o.b.	$10
16½" O.D. x 60" to 69"	$99.00 f.o.b.	$10
16½" O.D. x 70" to 79"	$109.00 f.o.b.	$10
16½" O.D. x 80" to 100"	$129.00 f.o.b.	$10
Aluminum end rings	per pair $17.95 ppd	

Please call or write for quote on larger telescope tubing.

OPTICAL TUBE ASSEMBLIES

		Packing Charge
4¼" f/10	$119 f.o.b.	$ 5
4¼" f/5	$129 f.o.b.	$ 5
6" f/6	$260 f.o.b.	$10
8" f/6	$325 f.o.b.	$10
10" f/6	$619 f.o.b.	$20
12½" f/6	$1095 f.o.b.	$20

PRIMARY MIRRORS

ALUMINIZED & OVERCOATED

(all mirrors are hand figured to 1/10th wave or better)

4¼" f/10 ..... $49.00 ppd
4¼" f/5 ..... $59.00 ppd
6" f/6 ..... $79.00 ppd
8" f/6 ..... $109.00 ppd
10" f/6 ..... $179.00 f.o.b.
12½" f/6 ..... $329.00 f.o.b.
14¼" f/6 ..... $940.00 f.o.b.
16" f/5 to f/6 ..... $1595.00 f.o.b.
16" f/7 to f/8 ..... $1495.00 f.o.b.

Please call or write for quote on larger mirrors.

ELLIPTICAL SECONDARY MIRRORS

ALUMINIZED & OVERCOATED

(all mirrors 1/10th wave or better)

1.33 ..... $11.95 ppd
1.55 ..... $15.95 ppd
1.83 ..... $19.95 ppd
2.14 ..... $24.95 ppd
2.60 ..... $28.95 ppd
3.10 ..... $49.95 ppd

Please call or write for price quote on larger diagonals.

OLYMPUS OM-1 ASTROCAMERA

Includes: Camera body, T-Mount, Auto-set cable-shutter release, additional clear focusing screen (1-8) for astrophotography. ..... $289.00 ppd

OBSERVATORY SERIES TELESCOPES

All telescopes are supplied with list of standard equipment listed in brochure.

16" Newtonian f/5, 6, 7 or 8 ..... $13,750 f.o.b.
16" Cassegrainian
- f/11 ..... $17,375 f.o.b.
- f/13 ..... $16,875 f.o.b.
- f/16 ..... $16,875 f.o.b.
- f/20 ..... $16,875 f.o.b.

16" Newtonian-Cassegrainian
- f/13 ..... $17,850 f.o.b.
- f/16 ..... $17,850 f.o.b.
- f/20 ..... $17,850 f.o.b.

20" Newtonian f/5, 6 or 7 ..... $24,250 f.o.b.
20" Cassegrainian
- f/11 ..... $27,500 f.o.b.
- f/13 ..... $26,500 f.o.b.
- f/16 ..... $26,500 f.o.b.
- f/20 ..... $26,500 f.o.b.

20" Newtonian-Cassegrainian
- f/13 ..... $28,500 f.o.b.
- f/16 ..... $28,500 f.o.b.
- f/20 ..... $28,500 f.o.b.

ACCESSORIES:

4¼" Newtonian f/11 guide telescope ..... $250 f.o.b.
4¼" Cassegrainian f/20 guide telescope ... $550 f.o.b.
6" Cassegrainian f/20 guide telescope ..... $875 f.o.b.
Electric Slewing on both axes:
- 16" telescopes ..... $1550 f.o.b.
- 20" telescopes ..... $1850 f.o.b.

Variable frequency supply for polar axis drive (all models) ..... $600 f.o.b.
Extra counterweights, painted, 50 lbs ea. .... $95 f.o.b.

Consult factory for delivery dates and installation costs.

General Catalog $2.00

PRICES AND SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE.