

PRICE LIST

OF

Engineering and Surveying Instruments

MADE BY

STARKE & KAMMERER

713 LARKIN STREET

SAN FRANCISCO, CAL.

All instruments enumerated in this price list are of our own manufacture and *warranted first-class in every respect.*

Particular attention is called to the fine optical qualities of our telescopes.

The graduations are made on our own dividing engines, and can be relied upon as perfectly correct. The lines are well defined and easy to read.

We were awarded the *Grand Silver Medal for Surveying Instruments of superior workmanship* at the Exhibitions of the Mechanics' Institute in 1889 and 1890.

All our instruments are carefully adjusted and ready for immediate use.

Instruments of any make repaired and adjusted at very moderate prices.

SMALL DUMPY LEVEL.

In box $4\frac{1}{2} \times 5\frac{3}{4} \times 10$ inches; without tripod \$60 00

Erecting telescope 9 inches long, clear aperture $\frac{3}{4}$ inch, magnifying power 16 diameters.

Weight of instrument 2 lbs.

Split-leg tripod (4 lbs.) 9 00

Extension tripod (3 lbs.), according to quality \$6 00, \$10 00 and 13 00

These tripods may also be used for our *Light Reconnaissance Transit.*

SMALL WYE LEVEL.

In box $4\frac{1}{2} \times 5\frac{3}{4} \times 10$ inches; without tripod \$75 00

Erecting telescope 9 inches long, clear aperture $\frac{3}{4}$ inch, magnifying power 16 diameters.

Weight of instrument $2\frac{1}{4}$ lbs.

Split-leg tripod (4 lbs.) 9 00

Extension tripod (3 lbs.), according to quality \$6 00, \$10 00 and 13 00

These tripods may also be used for our *Light Reconnaissance Transit*.

ENGINEERS' WYE LEVEL.

With box and split-leg tripod \$140 00

Erecting telescope 18 inches long, clear aperture $1\frac{3}{8}$ inches, magnifying power 30 diameters.

Weight of instrument 11 lbs.

Weight of tripod $7\frac{1}{2}$ lbs.

This tripod may also be used for our *Engineers' and Surveyors' Transit*.

LIGHT RECONNOISSANCE TRANSIT.

Plain; *graduation on solid silver*; single center, not shifting; in box $6 \times 7\frac{3}{4} \times 8\frac{1}{2}$ inches; without tripod \$115 00

Erecting telescope $6\frac{3}{4}$ inches long, clear aperture $\frac{3}{4}$ inch, magnifying power 16 diameters.

Horizontal circle 4 inches, with one vernier reading to minutes.

Magnetic needle $2\frac{3}{4}$ inches.

Weight of instrument $3\frac{1}{4}$ lbs.

Split-leg tripod (4 lbs.) 9 00

Extension tripod (3 lbs.), according to quality \$10 00 and 13 00

These tripods may also be used for our *Small Levels*.

Same instrument as preceding, with the addition of spirit level, clamp and tangent screw to telescope 140 00

Same instrument as preceding, with the addition of 4-inch vertical arc and double vernier reading to minutes, *graduated on solid silver* 155 00

Fixed stadia hairs 3 00

Variation plate 8 00

SMALL ENGINEERS' AND SURVEYORS' TRANSIT.

Plain; *graduation on solid silver*; double centers, shifting; in box 7x7x8¾ inches; without tripod, \$150 00

Erecting telescope 6¾ inches long, clear aperture ¾ inch, magnifying power 16 diameters.

Horizontal circle 4 inches, with two double verniers reading to minutes.

Magnetic needle 2¾ inches.

Weight of instrument, 4¼ pounds.

Split-leg tripod (4 lbs) 9 00

Extension tripod (3 lbs.), according to quality \$10 00 and 13 00

Same instrument as preceding, with the addition of spirit level, clamp and tangent screw to telescope 175 00

Same instrument as preceding, with the addition of 4-inch vertical arc and double vernier reading to minutes, *graduated on solid silver* 190 00

Fixed stadia hairs 3 00

Variation plate 8 00

ENGINEERS' AND SURVEYORS' TRANSIT.

Plain; *graduation on solid silver*; double centers, shifting; with box and split-leg tripod \$180 00

Erecting telescope 9¾ inches long, clear aperture 1⅛ inches, magnifying power 24 diameters.

Horizontal circle 5½ inches, with two double verniers reading to minutes.

Magnetic needle 4 inches.

Weight of instrument 10 lbs.

Weight of tripod 7½ lbs.

This tripod may also be used for our *Engineers' Wye Level*.

Same instrument as preceding, with the addition of spirit level, clamp and tangent screw to telescope 210 00

Same instrument as preceding, with the addition of 5½-inch vertical arc and double vernier reading to minutes, *graduated on solid silver* 225 00

Same instrument as preceding, but with 5½-inch full vertical circle instead of arc, <i>graduated on solid silver</i>	\$230 00
Graduation of horizontal circle reading to 30'	10 00
Gradienter attachment	5 00
Fixed stadia hairs	3 00
Variation plate	8 00

7-INCH THEODOLITE.

For triangulation; in box 11x13½x14 inches, with very strong shifting tripod \$375 00

Inverting telescope 12 inches long, clear aperture 1¼ inches, magnifying power 30 diameters.

Striding level to telescope axis.

Horizontal circle 7 inches, *graduated on solid silver*, shifts for position, and has two micrometer-microscopes reading to seconds.

Weight of instrument 16½ lbs.

Weight of tripod 17 lbs.

This theodolite may be furnished with a larger and more powerful telescope.

3-inch vertical circle and vernier reading to minutes, *graduated on solid silver* 25 00

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