

This is a copy of GOI catalogue(album) 1963. Original book made by Lishnevskaya E.B., editor prof. Tzarevsky E.N. Catalogue contain information about lens calculated and made in GOI from 1930 to 1963. Exact name: "Photographic and projections lens, developed in GOI".

Page from 3 to 5 contain useful info, explaining how to use catalogue info. Short translations here, if it's not enough, please ask that exactly part needed to be additional explained.

Page3:

-time interval of described lens 1930-1961 and add-on up to 1963,

-lens described at individual card in order of date of calculation of scheme,

-for simplifying of use made 7 tables, lens grouped:

1 - date of calculation,

2 - by aperture,

3 - by focal length,

4 - by angle of view,

5 - by linear field of view,

6 - by highing of optical scheme,

7 - in alphabet order,

-added tables for proections, reproections, mirror-, UV- and IR- lens and zooms,

-first table - lens schemes.

-card number setted in right bottom angle,

-tables of lens content:

-serial number,

-names of released experimental samples,

-maximum aperture,

-focal length(rounded),

-calculated angle and linear field of view,

-lens card number,

-sometimes instead linear field of view wroted diagonal of near film frame.

-lens card content:

-names of released experimental samples,

-maximum aperture,

-focal length(rounded),

-calculated angle and linear field of view,

-nearest film frame,

-date of calculation,

-serial number of calculation,

-code of experimental sample paper,

-lens pirpose,

-foto of experimental sample,

-weight(massa),

-scaled lens scheme,

-lens formula,

-glass types,

-focal length from last surface of lens(rounded),

-field resolution with type of used filter and film type,

-date of testing,

-number of card.

End of page 3.

Page 4:

- Sometimes part of data are absent(no sample or else reasons),
- Pirpose of lens maybe not only described, example: Industar-51 are aerolens, but can be used as portrait, technical and e.t.c.,
- Old lens(glass no more available or small resolutions or any other reasons) marked with "*",
- Lens barrels may be any, not only as in sample,
- If need construct sample, lens paper need be revised, weigh maybe varios,
- How minded lens formula: example formula for Helios-type lens: simple lens(1)-small distance-two-lens component(2)-big distance(-)-two-lens component(2)-small distance-simple lens(1), third and fourth lens are negative(34):

12-21

34

- In upper part of mirror-lens first reflex surface coded as "-0-", if reflex from inner mirror surface coded as "101".
- In bottom part - sequential number of negative lens, and negative reflex surfaces,
- Any reflex surface has own sequential number(as separated element), If rays meet lens twice(before and after reflection), lens have two sequential number. Example "OB-59":
- a - spherical mirror, b - reflex mirror, v - image surface,

EndOfPage4

Page5

formula are:

1-101-0-11

2456

.

- Resolutions was tested in various time, at various materials, don't trust resolutions curves "blind".
- Resolutions of used films(small list):
- type.....resolutions(lpm).
- In bottom right angle of card as number used date of calculations of lens(year and month - xalmaz); if letter added - mean another lens calculated in same time.

EndOfPage5.