



## Busch WWII 10 X 80 Flakglass Observation Binoculars

Sold



REF: 30007

Height: 25 cm (9.8")

Width: 49 cm (19.3")

Depth: 44 cm (17.3")

## Description

German Busch Observation Binoculars, 10 X 80.

A pair of German ex-military observation binoculars mounted on a modern aluminium cradle and gimble with adjustable 'WILD' wooden tripod. The binoculars with 45° incline eyepieces and are marked D.F. 10 x 80, X cxn ?, 90065, 27843. cxn is the secret manufacturing code assigned to Emil Busch Optical Industries of Rothenau by the German Army Ordnance Department. There are two knobs on the top of the binoculars, the knob on the right-hand side is for interocular distance adjustment, the left knob is for the four shade settings for the lenses, 'hell, klar, dunkel, mittel', light - clear - dark - medium. The eyepieces can be focused individually and the optical quality of the lenses is remarkable and equal to any modern equivalent and having an outstanding visual clarity. This is a fine pair of binoculars with a highly polished finish, giving it a sculptural look. Size shown is without tripod.

These large aperture binoculars produced during the Second World War were developed for their superior magnification and were manufactured for their specific military purposes where quality and dependability were more important than cost. They were used for long range land observation, aircraft identification or to facilitate the direction of anti-aircraft fire. Being large they were usually mounted onto heavy tripods and were also used on coastal installations as 'look-outs' or mounted to large heavy deck mountings on war ships. The last three images are taken from the book - *Militarische Fernglaser und Fernrohre* by Hans Seeger, one being a wartime photograph showing the flakglass mounted onto the flak direction apparatus being used by female assistants.

The DF 10 X 80 Flak Glass was manufactured in abundance during WWII by a number of German companies. The original design was by Emil Busch Optical Industries of Rathenow, their manufacturing code was cxn. The German Army Ordnance Department assigned secret manufacturing codes to the different companies, some of the other well known manufacturers were Josef Schneider (dkl), Carl Zeiss (blc), Ernst Leitz (beh), R. Fuess, vorm. J.G. Greiner & Geissler, Optische Industrie, Berlin (cro), Optische Anstalt C.P. Goerz GmbH, Wien 75, Sonnleithnergasse 5 (bpd) and Optische Präzisionswerke GmbH, Warschau (eug).

The D.F. engraved before 10x80 on the binoculars stands for Doppel-Fernrohr (double telescope) and they are mechanically joined together along the horizontal axis with both the left and right sides being separate entities. In addition to DF 10 X 80 and the serial number symbols such as ?, ? and X can be found engraved on the body of the binoculars. These give the indication of grease used on the devices and the different symbols appeared in different years as improvements in lubricant performance or availability changed. It is not unusual to have several markings as some instruments returned for servicing, repair or were re-greased and would have had the latest lubricants applied and thus the current symbol being added even if a previous one already existed.

An approximate date of some of the different lubricant symbols are

K.F. : 1940-41

O : 1942

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