



BARCO Projection Systems

SECTION **B**

service sheet

BARCO PROJECTION SYSTEMS

BARCO

BARCO DATA
701

R9000719 - HD6 (120 VAC)

GENERAL INFORMATION

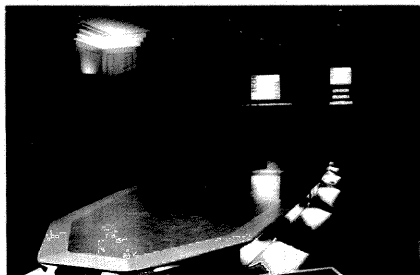
BARCODATA 701

Powerful Large Screen Presentation Tool



Compact, Digitally Controlled Video and Data Projector

BARCO has introduced a new high-performance Video and Data projector: the **BARCODATA 701**. It offers an outstanding array of technical features and a compact, light weight design, which makes it ideally suited for a wide range of presentation and training applications for medium-sized audiences, such as boardroom meetings, training sessions, trade shows, multimedia events, sales seminars,...



▲ Thanks to its compact and ergonomic design, the **BARCODATA 701** is ideally suited for boardrooms and conference rooms.

UNIVERSAL VIDEO AND DATA PROJECTOR

The **BARCODATA 701** offers a broad autolock frequency range of 15 to 50 kHz, wideband 45 MHz RGB amplifiers and a full complement of signal input connections. This makes the **BARCODATA 701** compatible with most of today's graphics boards up to a resolution of 1024 by 768/60 Hz.

In addition, the **BARCODATA 701** can display video signals (PAL, SECAM, NTSC), S-VHS (Y/C) signals as well as Component Video (Y, R-Y, B-Y) and HDTV signals in 4:3 or 16:9 aspect ratio.

COMPACT, LIGHT WEIGHT DESIGN

The **BARCODATA 701** has a beige cabinet and features the compact and light-weight ergonomic design of the **BARCO 700 Series** projectors, with on the inside state-of-the-art digital circuitry based on superior micro-electronics.

EXTREMELY USER-FRIENDLY CONTROL AND SET-UP

The **BARCODATA 701** is based on **BARCO's** advanced digital architecture which provides user-friendly remote control of all set-up and display functions. Extremely precise, yet simple adjustments are accomplished through an intuitive, on-screen menu-driven display.

▲ Its outstanding technical features and compact design make the **BARCODATA 701** the product of choice for large screen software and computer training applications. (Photo: National Power, Harrogate - Photo Courtesy of the Saville Group Ltd Systems Engineering, UK).

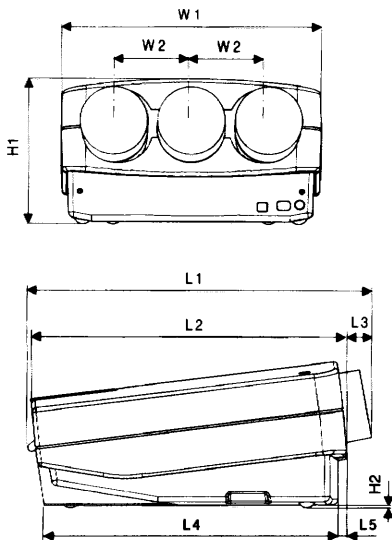
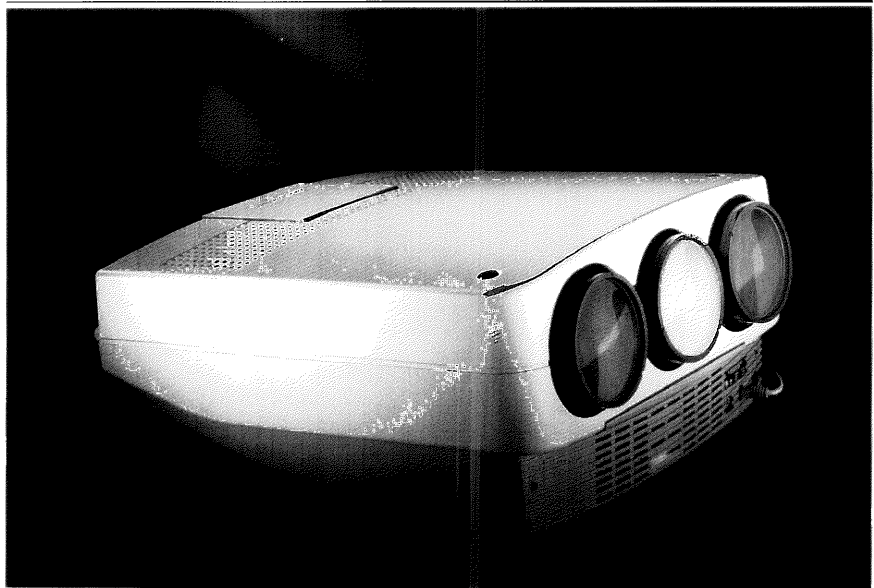
Utilizing **BARCO's** optional **IRIS 800 Auto-Convergence** unit, on-screen convergence can be achieved in less than three minutes.

SUPERB IMAGE QUALITY

The **BARCODATA 701** is provided with high definition colour corrected optics. The unit also incorporates new high light output CRTs with improved phosphors and a high resolution electron gun. This results in true-colour projection of ultra sharp and crystal clear images, on screens up to 6 m (20 ft) wide.

Technical Specifications

► The BARCODATA 701 is equipped with improved high-brightness 7" CRTs and high-definition F1.03 lenses, which provide extremely sharp and bright projected images.



| Dimensions | mm | inch |
|------------|-----|-------|
| W1 | 550 | 21.65 |
| W2 | 164 | 6.46 |
| L1 | 727 | 28.62 |
| L2 | 669 | 26.34 |
| L3 | 52 | 2.05 |
| L4 | 621 | 24.45 |
| L5 | 19 | 0.75 |
| H1 | 302 | 11.89 |
| H2 | 5 | 0.19 |

LIGHT OUTPUT*

At 10 % peak white: 725 lumen
At 20 % peak white: 486 lumen

CRTS

Significantly improved high brightness, high definition liquid cooled 7" CRTs (5.5" phosphor area) with improved phosphors and high resolution gun

LENSES

High definition F1.03 lenses with a combination of glass and plastic aspherical elements, with centre+edge focus adjustment

OPTIONAL LENSES

Hybrid lenses with short throwing distance, for projection cube applications

SCREEN SIZE

Min.: 1.4 x 1.05 m (4.6' x 3.5')
Max.: 6 x 4.5 m (20' x 15')

SCAN FREQUENCIES

Horizontal: 15-50 kHz autolock
Vertical: 37-140 Hz autolock

MINIMAL RETRACE TIME

Horizontal: < 4.7 µs
Vertical: < 450 µs

OPTICAL RESOLUTION

10 lp/mm at 50 % MTF throughout the field

HORIZONTAL LINEARITY

> 97 % accuracy in the full horizontal frequency range

RGB BANDWIDTH

45 MHz [±3 dB]

INPUTS

- Dual function input: RGB analog or R-Y, B-Y, Y on BNC connectors, sync on green or separate sync, standard sync or Tri-level sync
- Video (PAL, SECAM, NTSC 3.58, NTSC 4.43), loop through (2xBNC) with 75 Ohm termination switch
- S-Video input (4-pin mini-DIN), looped through with 75 Ohm termination switch
- RS232 input (loop-through) for projector control through PC

REMOTE CONTROL

A user-friendly backlit infrared remote control controls:

- source switching
- user settings per source (sharpness, hue, colour, brightness, contrast)
- geometry per source (password protectable)
- convergence per source (password protectable)

An optional executive remote control unit is available for control of source switching and user settings per source

* Measurement method available upon request

SPECIAL FEATURES

- 32 frequency-related memory banks
- External auto-diagnosis LEDs for ease of maintenance
- L.D.I. (Linear Digital Interpolation)
- Effective on-screen display: installation screens, help screens, barscale display of user settings, on-screen display of source frequencies
- Automatic storing of all adjustments
- Ability to set parameters to midposition
- Colour temperature adjustment (3200 K, 6500 K, 9300 K, or custom)
- Adjustable Scheimpflug correction in 3 discrete steps, for optimal top-bottom and left-right focussing in different installations
- Superb Colour reproduction through Colour Transient Improvement, Automatic Black Level, Gamma-tracking and new phosphors
- Hand grips on the side of the projector facilitates carrying
- Text generators for other languages are available

OPTIONAL PERIPHERALS

- RCVDS 800:

The RCVDS 800 source selector makes it possible to connect up to ten sources to the projector and to adjust all picture settings via the projector's infrared remote control.

- IRIS 800 automatic convergence system:

The IRIS 800 is an optional fully automatic convergence system which automatically aligns the projected images on the screen in a matter of only a few minutes.

- Projector Control software:

The optional Projector Control software package makes it possible to control up to 16 projectors from one central computer (DOS) and to store image settings for each source for future use on a computer hard disk or diskette.

- Suspension system:

BARCO's suspension system allows the BARCODATA 701 projector to be mounted from the ceiling, adapting the projector perfectly to the local mounting requirements.

- Flight case:

Sturdy, easily transportable flight case for the BARCODATA 701.

- Special options:

BARCO offers a series of special options for non-standard applications (for multi-screen applications, non-standard projection angles,...): these include contrast modulation kit, orbiting kit, convergence on green, automatic colour temperature alignment system,...

WEIGHT

| | | |
|------------------|---------|----------|
| Net weight: | 38 kg - | 84 lbs. |
| Shipping weight: | 55 kg - | 121 lbs. |

POWER CONSUMPTION

300 W

ORDER INFORMATION

BARCODATA 701:

| | |
|--------|----------|
| 230 V: | 90 00710 |
| 120 V: | 90 00719 |

RCVDS 800:

| | |
|--------|----------|
| 230 V: | 98 27450 |
| 120 V: | 98 27459 |

Projector Control software: 98 27530

IRIS 800: 98 27695

Executive remote control: 98 27970

Remote infrared receiver: 98 27515

Communication cables:

| | |
|-----------------|----------|
| 5 m (16 ft.): | 98 27770 |
| 15 m (50 ft.): | 98 27560 |
| 30 m (100 ft.): | 98 27570 |

Suspension system:

| | |
|--------------------------|----------|
| - With pulley system: | 98 27990 |
| - Without pulley system: | 98 27991 |

Flight case: 98 27830

Special add-in boards:

| | |
|----------------------------|----------|
| - Contrast modulation kit: | 98 27800 |
| - Orbiting kit: | 98 27781 |
| - Convergence on green: | 98 28080 |

Contact

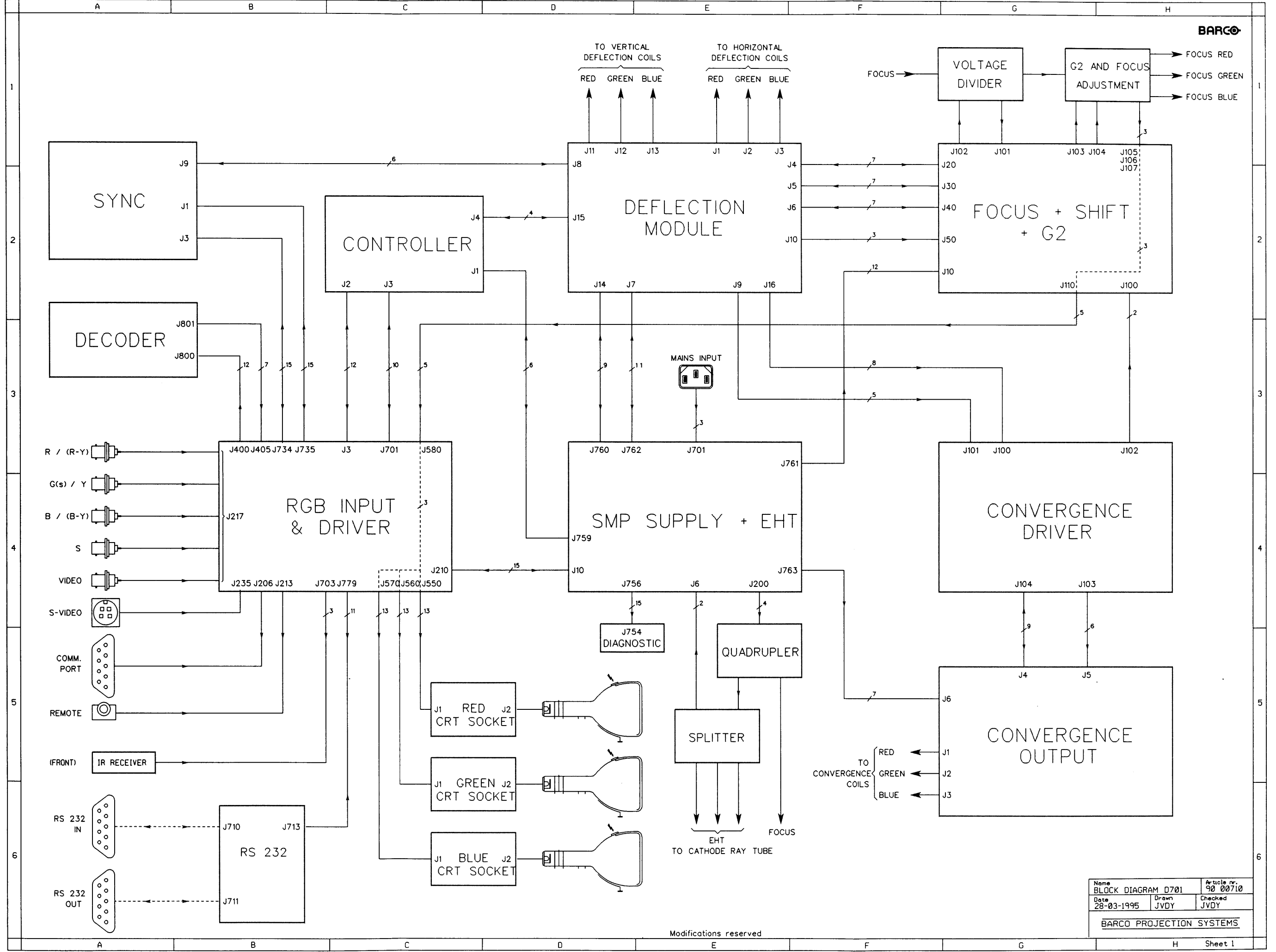
BARCO Projection Systems
Head Office
Noordlaan 5
8520 Kuurne, Belgium
Tel.: +32/56/36 82 11
Fax: +32/56/35 16 51

BARCO

Photo on front page: Fancom bv, Panningen, The Netherlands.

The information and data given are typical for the equipment described. However any individual item is subject to change without any notice.

*Ref. no. 59 9061 -Photographs: Studio DSP-
Printed in Belgium*



| | | |
|---------------------------------|---------------|-------------------------|
| Name BLOCK DIAGRAM D701 | | Article nr. 90 00710 |
| Date 28-03-1995 | Drawn JVDY | Checked JVDY |
| <u>BARCO PROJECTION SYSTEMS</u> | | |

Modifications reserved

