REMOTE CONTROLLED,
DIGITAL LARGE SCREEN PROJECTORS

Sales per product

70

52

40

Capacitors

Resistors

Transistors

1980
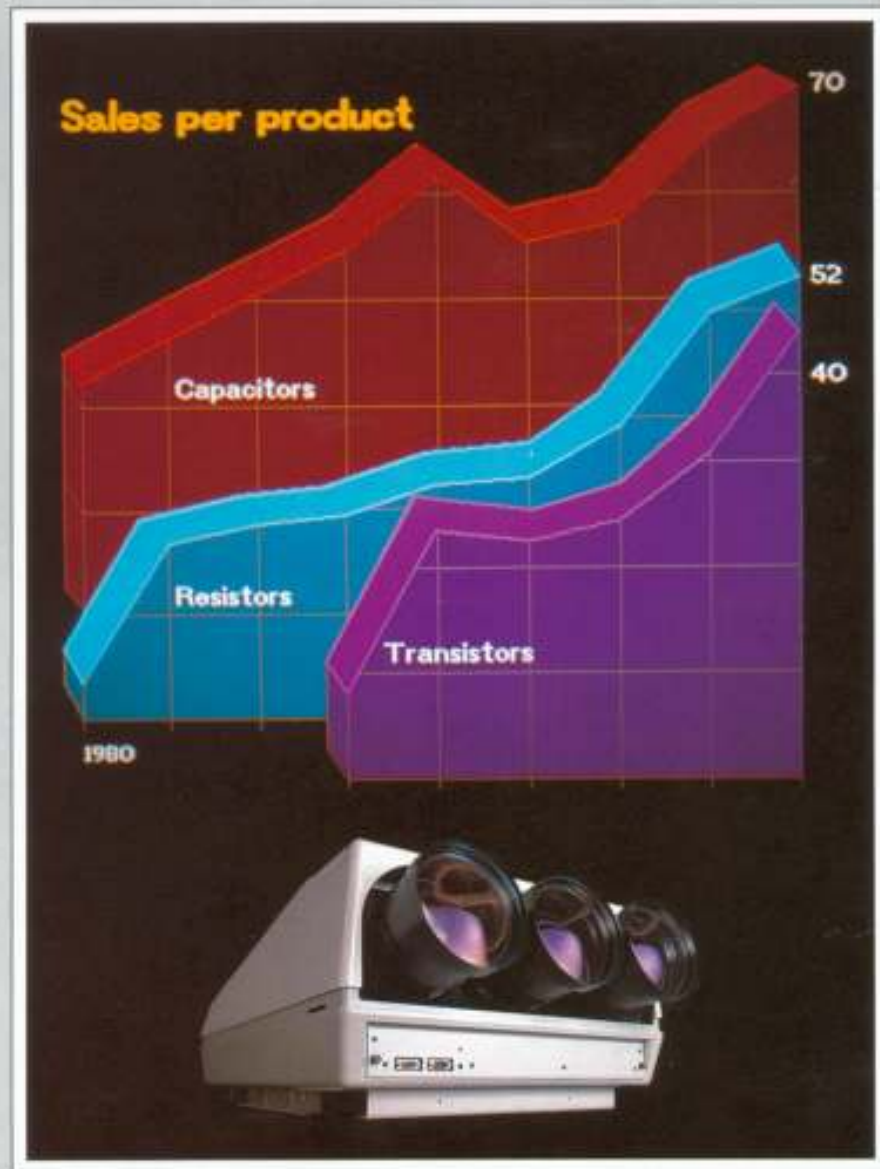
BARCODATA 800
BARCOGRAPHICS 800

BARCO

The wide ▲ autolock facilities and high optical resolution of the BARCOGRAPHICS 800 make it an ideal tool for large screen process control/monitoring applications. Photo : Los Angeles County Transportation Commission.

THE POWER OF STATE-OF-THE-ART DIGITAL TECHNOLOGY

Based on an advanced digital architecture, the BARCO 800 series projectors offer an outstanding array of performance specifications including a number of special features designed to simplify the use and installation of the projector.

On-screen displays, menu-driven installation adjustments, infrared remote control, LDI (Linear Digital Interpolation), internal memory banks and automatic storing of user settings are just a few features of the user-friendly BARCO 800 series projectors.

HIGH GRADE OPTICAL SYSTEM
SUPERB PICTURE QUALITY

The implementation of an advanced, state-of-the-art optical system allows the BARCO 800 projectors to deliver razor sharp images, with a high light output of 825 lumens, on screens from 1.2 m (4 ft.) up to 6 m (20 ft.) wide.

- High-definition, liquid cooled 8" square CRTs with stabilized pressure chambers offer a consistently superb picture.
- F1.06 color corrected, hybrid lenses deliver an optical resolution of 10 lp/mm and improved image contrast.

SOURCE 85

CHOOSE A SETUP
PATTERN FROM
BELOW

SELECTED SOURCE
GENLOCKED PATTERN
INTERNAL ▓ PATTERN

SELECT WITH ↑ OR ↓
THEN <ENTER>

<EXIT> TO RETURN

INTERNAL ▓ PATTERN

STD   CGA   EGA   VGA
PR1   PR2   PR3   PR4

PRx : Fh= 37.8 KHz
       Fv= 860 Hz

USE THE ARROW KEYS
TO SELECT OR
PRESS <TEXT> TO
REPROGRAM PRx

THEN <ENTER>

<EXIT> TO RETURN

Convenient, well ▲
organized on-screen
menus (available in
several languages),
combined with the user-
friendly infrared remote
control unit, simplifies all
adjustments of the
BARCOGRAPHICS 800
and the BARCODATA
800, even for first-time
and non-skilled users.

MENU-DRIVEN CONTROL
UNEQUALLED USER-FRIENDLINESS

For easy geometry and convergence adjustment, the BARCO 800 projectors combine a user-friendly remote control unit with logical on-screen menus.

The projectors offer a guided adjustment program for first-time or non-skilled users, and a random adjustment mode for more efficient alignment of image parameters by experienced users.

Image adjustments may be accomplished 'on source', or through the use of an internally generated pattern, genlocked on the connected source or to a pre-programmed frequency, to allow for adjustment of the projector in the absence of an external source.

All image adjustments are individually set for each source and stored in one of the projector's 38 frequency related memory banks. Once image parameters are designated for each source, the BARCO 800 projectors will automatically select the correct settings for the source in use, giving you a perfect picture.

Once parameters are selected for at least two sources, the LDI (Linear Digital Interpolation) feature of the BARCO 800 projectors will automatically calculate the image parameters of all additional sources by comparing them to previously set sources, to approximate all new source settings.

BARCO   RCU 800

COMPUTER DRIVEN ASSISTANCE
PROJECTOR SUPPORT SOFTWARE PACKAGE

Thanks to BARCO's optional proprietary 'Control 800' software package, it is possible to adjust brightness, contrast, hue, color, sharpness and geometry and convergence settings for up to 256 projectors from one central point. It is even possible to store image settings for each source for future use on a computer hard disk or diskette.

The 'Control 800' software is available for use with IBM PC, PS/2 (or compatible), Macintosh, Intergraph Clipper Workstation or computers working with the X-Window operating system.

▲ Mouse-driven pull-down menus and dialogue boxes facilitate the adjustment of the projectors connected to the central computer.

◄ The IRIS 800 has a light-weight, rugged enclosure, and can be easily installed to the front of the projector.

IRIS 800 :
INTELLIGENT REGISTRATION INTERFACE SYSTEM

The IRIS 800 is an optional user-friendly, automatic convergence system designed to automatically align the projected image on the screen faster and more accurately than ever before possible through the conventional 'manual' convergence process.

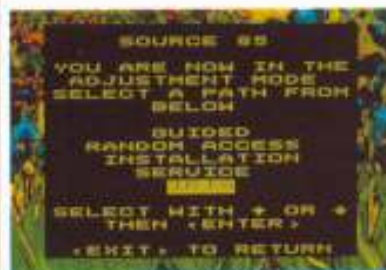The IRIS 800 incorporates a unique hardware/software system, which utilizes a high resolution CCD camera in conjunction with an ultra light, high quality front-surface mirror assembly. Together with built-in digital enhancement software this guarantees both a quick and highly accurate alignment of the three projected images on the screen, even under heavy ambient lighting conditions.

The flexible design of the IRIS 800 allows it to operate either in a table or ceiling mount installation.

▲ The IRIS 800's automatic convergence process is easily initiated by selecting the appropriate option from the projector's on-screen menu, using the infrared remote control.

ADDITIONAL PERIPHERAL DEVICES

BARCO offers a wide range of additional peripheral devices, which further enhance the flexibility and versatility of the BARCO 800 series projectors.

RCVDS 800 versatile source selector

The Remote Controlled Video and Data Source Selector RCVDS 800 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.

For expanded use of the 800-series projectors, it is possible to connect up to ten RCVDS 800 source selectors in series, so that up to 90 different sources may be connected simultaneously to a single projector.

RCU 800-U

The RCU 800-U is a simplified executive infrared remote control unit, designed to accomodate source selection and adjustment

of user settings without allowing changes to the projector's geometry and convergence settings.

Remote infrared receiver

An additional remote infrared receiver facilitates the use of the projector's infrared remote control in difficult installations.

Communication cables

Additional RS232/422 cables (D9/D9), with a length of 15 or 30 m are available.

Suspension system

BARCO's suspension system allows any BARCO 800 series 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 packing of the BARCO 800 projectors.

TECHNICAL SPECIFICATIONS

800 SERIES	BARCODATA 800	BARCOGRAPHICS 800
Scan frequencies :		
Horizontal	15-58 kHz autolock	15-90 kHz autolock
Vertical	37-140 Hz autolock	37-140 Hz autolock
Minimal retrace time :		
Horizontal	< 3.3 µs	< 2.6 µs
Vertical	< 300 µs	< 200 µs
RGB bandwidth :	> 50 MHz	> 60 MHz
Optical Scheimpflug correction :	No	Yes

COMMON SPECIFICATIONS 800 SERIES

Light output* :
At 10% peak white : 825 lumen
At 20% peak white : 575 lumen

CRTs:
High brightness, high definition liquid cooled 8" CRTs.

Lenses:
High definition, fully color corrected F1.06 hybrid lenses, with centre+edge focus adjustment.

Optical resolution :
10 lp/mm at 50 % MTF throughout the field.

Screen size :
Min. : 1.2 m x 0.9 m (4' x 3')
Max. : 6 m x 4.5 m (19.8' x 14.8')

Horizontal linearity :
> 97% accuracy in the full horizontal frequency range.

Remote control :
User-friendly infrared remote control RCU 800 controls :
- source switching
- user settings per source (sharpness, hue, color, brightness, contrast)
- geometry per source (password protected)
- convergence per source (password protected)

Inputs :
- RGB analog (BNC-connectors), sync on green or separate sync
- RGB TTL/EGA (D9-subconnector)
- Video (PAL, SECAM, NTSC 4.43, NTSC 3.58), looped through (2xBNC), with 75 Ohm termination switch
- 4 pin S-Video input, looped through with 75 Ohm termination switch.

Optical Scheimpflug correction :
The BARCOGRAPHICS 800 is provided with a built-in Scheimpflug optical correction, with stepless adjustments for both horizontal and vertical axis. This feature guarantees optimal optical focus from left to right and top to bottom for projection under non-standard angles, and is particularly useful for specialized installations.

* Measurement method available upon request
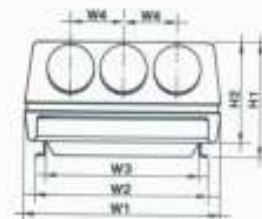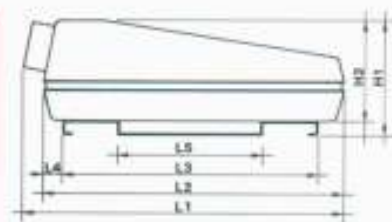
Dimensions

	MM	INCH
L 1	1000	39.37
L 2	870	34.25
L 3	735	28.94
L 4	60	2.36
L 5	415	16.34
H 1	342	13.46
H 2	295	11.61
W 1	575	22.64
W 2	494	19.45
W 3	442	17.40
W 4	180	7.09

Special features :
- 38 frequency-related memory banks.
- 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.
- Color temperature adjustment : 3200 K, 6500 K, 9300 K, or custom).
- Special sharpness control : improves picture quality for high-frequency sources.
- Text generators for other languages.
- A BARCODATA 800 can be upgraded to a BARCOGRAPHICS 800.

Weight :
Net weight : 64 kg. (141 lbs.)
Shipping weight : 80 kg. (176 lbs.)

Power consumption : 350 W.

Safety regulations :
The BARCODATA 800 and BARCOGRAPHICS 800 comply with UL 1950 and IEC 950.

Order information :
- BARCODATA 800 :

220 V :	90 00540
110V :	90 00549

- BARCOGRAPHICS 800 :

220 V :	90 00560
110 V :	90 00569

- RCVDS 800 :

220 V :	98 27450
110 V :	98 27459

- Control 800 Software :

PC, PS/2 :	98 27530
Mac :	98 27540
Intergraph Clipper :	98 27580
X-Window system :	98 27710
- IRIS 800 :	98 27690
- RCU 800-U :	98 27440

- Remote infrared receiver :

	98 27510

- Communication cables :

15 m :	98 27560
30 m :	98 27570
- Suspension system :	98 27340
- Flight case :	98 27520

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