



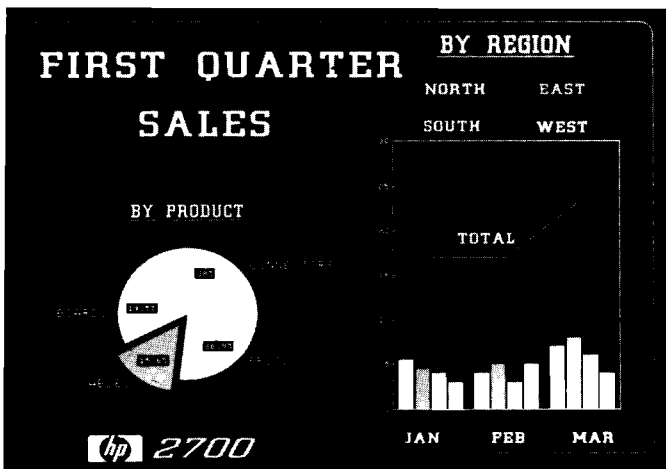
Description

PRESENTATION/2700 is a series of programs designed to enhance the presentation graphics capability of the HP2700 Color Graphics Workstation. One feature provides the ability to create high resolution 35mm slides when used with a compatible 35mm film recorder. This feature does not alter the operation of the other application software products, AUTO PLOT/2700 and PAINTBRUSH/2700. Once the desired graphic is created the software provides an easy to use interface to the film recorder for creation of presentation quality 35mm slides. A variety of default parameters ensure friendly operation, yet special effects are

permitted if so desired. Another capability in the PRESENTATION/2700 package significantly enhances the interactivity and productivity of HP2700 users when connected to the HP3000 computer. This enhancement allows picture files created locally on the HP2700 to be uploaded into an HP3000 in the same format used by the HP3000 to store graphics files. Pictures, graphs, and drawings created locally on the HP2700 can now be transferred to the HP3000 for use by other application programs such as HPDRAW, DSG/3000, TDP/3000, and output to peripherals such as the HP2680 laser printer.

PRESENTATION/2700 allows high resolution images created on the HP2700 model 65 Color Graphics Workstation to produce presentation quality 35mm output on the MATRIX® QCR®-D4/2 film recorder. The PRESENTATION/2700 software utilizes the ability of the HP2700 workstation to draw and store pictures on a large (32,000 by 32,000 point) address space. All, or any part, of this space may be displayed on the workstation's 512 by 390 pixel screen. The screen displays a scaled version of the actual picture. For example, AUTO PLOT/2700 produces images stored in memory at ten times the screen resolution (5110 by 3890 points), although they are represented on the screen at lower resolution. PRESENTATION/2700 takes a high resolution image in memory and digitally transfers up to a 4096 by 4096 pixel representation of it to the MATRIX QCR-D4/2 film recorder. This technique virtually eliminates the "jaggies" normally associated with computer generated graphics. The combination provides an extremely cost effective solution for the preparation of 35mm slides as well as 4x5, and 8x10 color film formats.

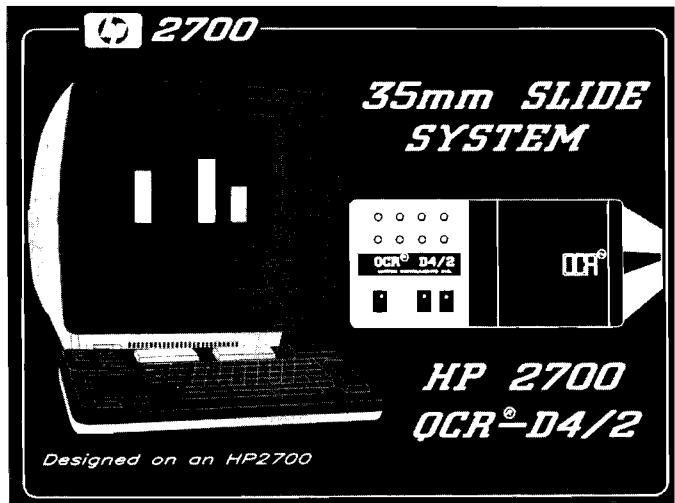
The combination of the HP2700 model 65 with PRESENTATION/2700 software and the MATRIX QCR-D4/2 represents a quantum leap in price performance for the preparation of 35mm presentation quality slides, and it greatly extends the number of users who can benefit from this capability.



Slide produced from AUTO PLOT/2700

Flexible Operation:

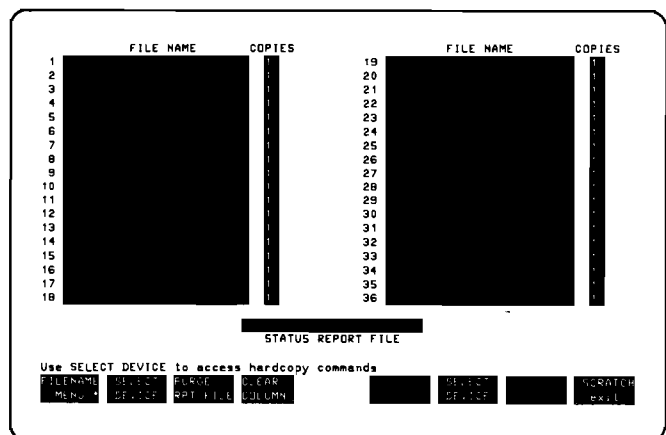
PRESENTATION/2700 allows flexibility in control over the transferred image. Output resolution to the film recorder is variable from screen resolution, 512x390 pixels, up to 4096 x 4096 pixels. The exposure time is dependent upon the selected resolution. Longer exposure times are required for higher resolution transfers. Typically 2000 by 1500 pixel exposure times are under five minutes. To maximize throughput, as well as allow for unattended operation, a picture file spooler is included. The spooler allows up to thirty-six picture files stored on disc to be queued for exposure. Unattended operation as well as control from a remote computer further add to the overall flexibility.



HP2700 Color Graphics Workstation and Matrix QCR-D4/2

Features:

- High resolution output to the MATRIX QCR-D4/2 film recorder for the creation of 35mm slides, 4x5, and 8x10 negatives. Resolution is user selectable up to the limits of the film recorder (4096 x 4096 pixels) and the aspect ratio of the film.
- Picture spooler allows unattended exposure of picture files.
- Default settings for inexperienced users
- Custom color effects for advanced users
- Simple connection of HP2700 to MATRIX QCR-D42 via shared peripheral interface (13273H or option 096).
- Color separation into 3 and 4 color output formats for printing applications.
- Custom graphics upload to HP 3000.
- High resolution output of popular software products.



Menu for PRESENTATION/2700 Picture File Spooler

HP Computer Museum
www.hpmuseum.net

For research and education purposes only.

Ease of Use:

While the software provides defaults for inexperienced users, complete control over the system is accomplished via a screen menu. Critical parameters are stored in the workstation's non-volatile memory and are not lost when the workstation is powered off. The user can select exposure characteristics, output resolution, image position, and other parameters. Color separation of the image into three or four color formats (yellow, cyan, magenta and black) for printing applications may also be specified. A simple "PLOT TO: CAMERA" command initiated by screen labeled function keys is all that is required to initiate an exposure.

CAMERA CONFIGURATION

Location Method **CENTER/SIZE** Orientation **HORIZ** Resolution **2048**

Center (**0** **0**) Size **90k -DR- P1(-2048 -1366) P2(2047 1365)**

Multi-expose **NO** Line Width **NORMAL** Preserve Aspect **YES**

Color Separation **NO** Separation Type **FULL** Alignment Marks **NO**

Color Correction **EKTACHROME** Film ASA **64** Camera Address **2.3**

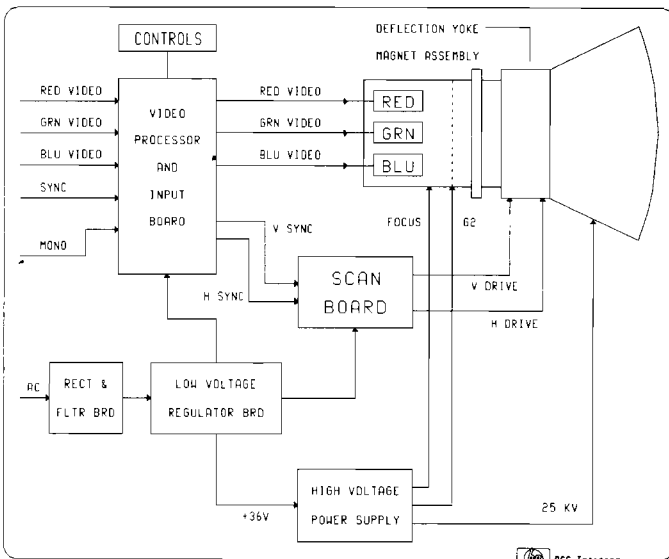
Custom Color Correction Table

Red	0	17	34	51	68	85	102	119	136	153	170	187	204	221	238	255
Green	0	17	34	51	68	85	102	119	136	153	170	187	204	221	238	255
Blue	0	17	34	51	68	85	102	119	136	153	170	187	204	221	238	255

SAVE CONFIG NEXT CHOICE PREVIOUS CHOICE DEFAULT VALUES POWER ON VALUES ACTIVE VALUES TEMP SAVE config keys

Camera Configuration Menu

Examples of laser printer output



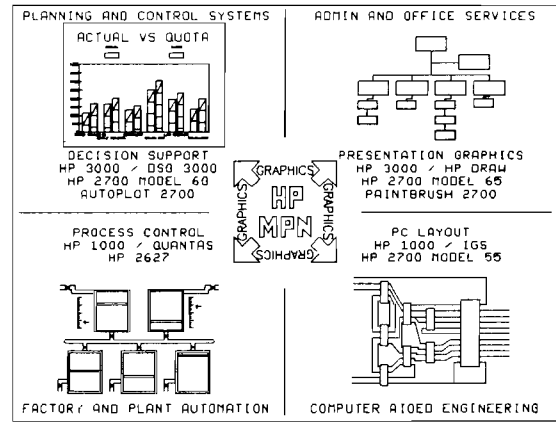
This drawing was developed using PAINTBRUSH/2700

Graphics in MPN

Graphics plays an important role in all quadrants of MPN. As illustrated below, HP offers terminals that satisfy the needs of all of these areas.

Paintbrush. Pictures from other sources, such as Graph 1000-II, could also have been added. A vector form of the resulting display was transferred over datacomm to a figure file on an HP3000. HPDRAW can then be used to display the picture on any 3000 graphics peripheral device: 2647 black and white terminal, 2627 color graphics terminal, plotters, and the 2680A laser printer. Using TDP/3000 we can combine words, data, and graphics to produce the page you are now reading.

This report was created by using a number of HP products working together. The bar chart in the upper left hand corner was created by Autoplot/2700 accessing data directly from an Image/3000 data base through Inform/3000. Paintbrush/2700 was then used to merge the chart with other figures created by

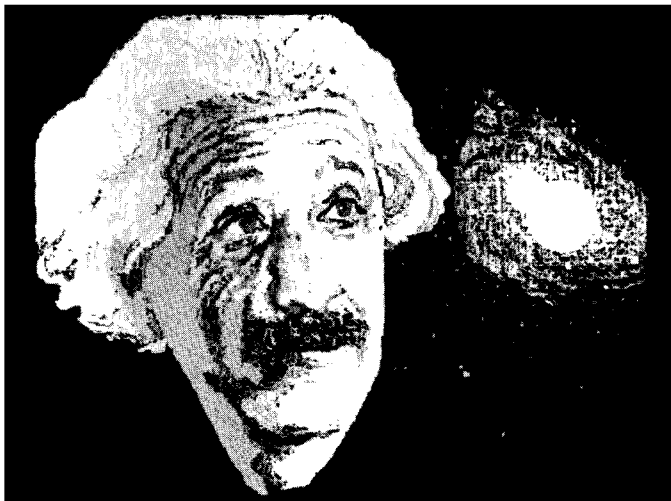


HP2700 graphics merged with text on an HP3000

Picture Upload Capabilities:

The PRESENTATION/2700 package also provides the HP2700 user a convenient method of transferring picture files created locally to the HP3000 computer system. Once entered into the system they are stored in the same file format as pictures which are created using HP3000 system software packages such as DSG/3000, HPEASYCHART, or HPDRAW. Pictures created using the HP2700's powerful standalone capabilities and software can be sent to the HP3000 where they can be plotted on remote plotters, displayed on other HP graphic terminals, used with other peripherals, or processed by system level software.

A particularly useful application of this processing capability is the creation of custom graphics for use with a laser printer. Here logos, complex diagrams, charts and graphs can be merged with text in TDP/3000 for the creation of custom presentation material, manuals, and other documents. Alternatively graphics can be sent directly to the HP2680 via HPDRAW. The power of the HP2700 to create graphics for laser printer output greatly reduces CPU burden and improves the total system performance.



Portrait created using PAINBRUSH/2700

The PRESENTATION/2700 software allows full utilization of the HP2700's terminal communications capability. Inquiries into the systems data base can be made to obtain the most up-to-the-minute information for the local creation of graphs and charts through AUTO PLOT/2700. These graphics can then be modified, customized, or enhanced via PAINBRUSH/2700 and the resultant image returned in a system usable format to the HP3000. PRESENTATION/2700 allows all the power of a standalone graphics workstation to be effectively combined with access to the HP3000's system data base, communications and networking capability, applications software, and hardcopy resources. All this combines to make the HP2700 an effective productivity tool for graphics intensive HP3000 users.

The PRESENTATION/2700 software allows transfer of images stored in HP2700 memory to the film recorder. To fully utilize this capability images should be created at sufficient resolution to benefit from high resolution replication. For example AUTO PLOT/2700 and PAINBRUSH/2700 software as well as business graphics software (HPDRAW, DSG/3000, and HPEASYCHART) on the HP3000 computer system produce such images. The HP2700 may also be used with DISSPLA®, TELL-A-GRAF®, DI3000® GRAFMAKER®, and SAS/GRAPH® packages to obtain high resolution graphics.



AUTO PLOT/2700 charts merged with PAINBRUSH/2700 figures

Specifications:

13273E PRESENTATION/2700

The 13273E is supplied with all HP2700 Model 65's. For users wishing to add this capability to their existing systems the following hardware environment is required:

HP2700 Model 065 Presentation Graphics Workstation

Note: 13273H or option 096 required for connection to the film recorder.

Additional information about the film recorder may be obtained from:

Honeywell Europe S.A.
Avenue Henri Matisse 14
1140 Brussels, Belgium
Ph: (02) 243 12 11

IMAPRO Inc.
308 1750 Courtwood Cr.
Ottawa, Ontario
Canada K2C ZB5
Ph: (613) 226-4080

MATRIX Instruments Inc.
230 Pegasus Avenue
Northvale, New Jersey
07647
Ph: (201) 767-1750
(800) 526-0274

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