

Option/Field Kit provides interface capability for connecting 4115/4120 Series Color Graphic Workstations to high-performance video projectors for large screen projection of high resolution graphics images.

4115/4120 SERIES PROJECTOR INTERFACE

The projector interface provides RGB video and synchronizing signals to produce a projected image with 1280 × 1024 addressability at a 30 Hz interlaced rate while the workstation display simultaneously produces an image of 1280 × 1024 addressability at a 60 Hz non-interlaced rate. The interface consists of a modified timing controller, the projector interface board, an auxiliary power supply, interconnecting cables and a rear panel option plate. Standard accessories include three 20-foot 75-ohm coaxial cables and an instruction manual.

Output Characteristics

The video projector interface provides independent red, green and blue video, and horizontal and vertical synchronizing signals through five BNC connectors. Composite sync may be strap selected and connected to the horizontal sync connector, and sync on Green is also strap selectable. Video signals are 1 volt P-P (blank to white) and are adjustable to RS-343 levels. External sync signals have TTL levels.

Output Timing

Asterisk (*) denotes RS-343 specification. Projectors designed to produce 4:3 aspect ratio should be adjusted for values in parenthesis. This will center the 1280 × 1024 image (5:4 aspect ratio) in the 4:3 raster, avoiding geometric distortion. The a) and b) values on vertical timing alternate from odd field to even field to avoid drawing half lines.

Frame Rate	30 Hz*
Field Rate	60 Hz*
Horz. Rate	32.01 KHz
Horz. Blanking Time	8.52 μ sec (7.0 μ sec*)
Horz. Front Porch	1.88 μ sec (1.12 μ sec*)
Horz. Sync. Width	2.60 μ sec*
Vert. Blanking Time	a) 696 μ sec b) 665 μ sec
Vert. Front Porch	a) 64.7 μ sec b) 49.0 μ sec
Vert. Sync Width	242 μ sec
Video Dot Frequency	56.34 MHz
Video Dot Time	17.75 μ sec
Number Unblanked Lines	1024
Total Number Lines	1067
Unblanked Dots Per Line	1280 (1366)
Total Dots Per Line	1760
Max. Pixel-to-Pixel Jitter	4.44 μ sec

Ordering Information

The projector interface is compatible with the 4115B, M4115B, 4125, 4125P, 4128, and 4129 Color Graphics Workstations and is orderable as:

Option 6 Projector Interface
4100F06 Projector Interface Field Kit

Additional 20 foot 75-Ohm coaxial cables are available as part number 175-9817-00.

Warranty-Plus Service Options

Option N0 On-site Installation and Set-up
Option N4 OEM On-site Installation and Set-up (transferable)

For further information, contact:

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OEM prices and leasing programs (U.S. only) are available.

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