

6170 1U CONTROL FRAME**CONTENTS**

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SOFTWARE

The 2411 Control System - User Guide SW-U-04

Optional Software

The 6170 is currently available with the following options:

6170-00	System 2 Controller
6170-10	System 3 Status display
6170-11	Virtual Crosspoint emulator
6170-20	Pro-Bel RS422 control expander/fanout
6170-21	Protocol converter GVG Horizon
6170-22	Protocol converter Dynair Dynasty System 21
6170-23	Protocol converter DiTech 9002
6170-24	Protocol converter Vistek 'S' Series V2.1
6170-25	Protocol converter Utah PL-160 & PL-320
6170-30	Protocol converter Abekas/Linc
6170-31	Protocol converter Panasonic MARC
CP-4200-02	Compass Interface for Sony LMS
CP-4200-04	Compass Interface for Odetics TCS90
CP-4200-05	Compass Interface for Sony Flexicart
CP-4301-01	Compass Interface for Standalone VTRs
CP-4400-01	Compass Interface for Quantel Picturebox
CP-4400-02	Compass Interface for Quantel DLS6000
CP-4400-03	Compass Interface for Rank Cintel Slide File
CP-4400-04	Compass Interface for Abekas Clipstore
CP-4410-01	Compass Interface for Aston Motif
CP-4410-02	Compass Interface for Chyron Max
CP-4410-03	Compass Interface for Type Deko
CP-4411-01	Compass Interface for WMD Clock
CP-4420-01	Compass Interface for VPS PDC
CP-4420-02	Compass Interface for Intelfax Atom PDC
CP-4430-01	Compass Interface for Microvideo Logo Generator
CP-4431-01	Compass Interface for Pinnacle Prism DVE
CP-4500-01	Compass Interface for GVG M21

1 GENERAL DESCRIPTION

The 6170 is a 1U system control frame providing full control facilities from the 2411 system control card. The rear panel houses 11 control connectors labelled SK1-SK11.

The 6170 can be used in a wide variety of applications. The specific connection details for these applications is described in the relevant software handbook. When used as a System 2 controller, the connection details are as follows.

SK1	Port 1	RS485	Switcher port
SK2	Port 2	RS485	Switcher port
SK3	Port 3	RS485	Switcher port
SK4	Port 4	RS485	Switcher port
SK5	Port 5	RS485	Switcher port
SK6	Port 6	RS485	Under monitor display (multidrop up to 16)
SK7	Port 7	RS485	1st multidrop panel port chain (up to 16 panel settings)
SK8	Port 8	RS485	2nd multidrop panel port chain (up to 16 panel settings)
SK9	Port 9	RS485	Jumper selectable with port 10 (PL7 on 2411)
SK10	Port 10	RS232	Jumper selectable with port 9 (PL7 on 2411)
SK11	Port 11	RS232/RS485	Jumper selectable (PL8 on 2411 & PL26 - PL32 in 6170)

Port 9 (RS485) or port 10 (RS232) is selected by jumper PL7 on the 2411 card.

Port 11 which can be either RS485 or RS232 is selected by jumpers PL8 on the 2411 and PL26 - PL32 on the 1573 sub-assembly of the 6170. Access to the 1573 is by removal of the frame top panel.

Two status page outputs are provided consisting of RGB and Sync at TTL level and monochrome video.

A looped reference input is provided for locking the status page output. A suitable signal is a feed of mixed sync or composite video.

In the absence of a reference signal, the input should be terminated in 75Ω.

Power Supplies

Incoming mains is wired from filters in the 1574 power connector sub-assembly to two internal switch mode power supply units type 1134 providing main and back up supplies of +5.5V and ±15V. LEDs and test points are provided on the power supply front panels in addition to closing relay contacts (on fail) wired to SK12 on the 3170 rear panel via the 1134 power output connectors.

Power supply outputs are dioded together on the 1573 control connector sub-assembly before being fed to the 2411 card.

Note:

This equipment can work from different supply voltages. A suitable type of plug or line cord is required for connection to the alternate supply voltages.

Earthing

The three system earths, Mains, Signal 0V and Chassis, are connected together internally and may not be accessed individually due to safety considerations.

Mechanical

The controller is housed in a 1U 19" rack mounted frame. All modules plug into the frame to allow easy access for servicing and are normally protected behind a front panel. All frame wiring is contained on two rear panel sub-assemblies type 1573 and 1574 which provide power input and control connector connection to the power supplies and control card.

Extender board type 1336 can be used with the 6U cards for servicing.

2 SPECIFICATION

Power	Power requirement	35VA
General	Mechanical	1U 19" rack frame
	Width	483mm
	Height	400mm
	Weight	3kg
Temperature	Operating temperature	0-50°C
Connections	Control, PSU monitor	'D' type with screwlock
	Power in	IEC with latch
	Reference input and status page	BNC

3 CONNECTOR DETAILS

RS422/RS485 Serial Control

Cannon 9 way 'D' screw lock socket

Wired as 'CONTROLLER'

PIN	FUNCTION
1	Chassis 0V
2	Rx-
3	Tx+
4	System 0V
5	N/C
6	System 0V
7	Rx+
8	Tx-
9	Chassis

RS232 Serial Control

Cannon 9 Way 'D' screw lock socket.

Wired as 'DCE'.

CONTACT NO.	FUNCTION
1	NOT USED
2	Tx (Data Out)
3	Rx (Data In)
4	NOT USED
5	System 0V
6	NOT USED
7	NOT USED
8	NOT USED
9	NOT USED

Power Supply Monitor

Cannon 9 Way 'D' screw lock socket.

CONTACT NO.	FUNCTION
1	PSU1-Fail-C/C to COMM
2	PSU1-COMM
3	PSU2-Fail-C/C to COMM
4	PSU2-COMM
5	N/C
6	N/C
7	N/C
8	System 0V
9	Chassis 0V

7 MAINTENANCE AND WARRANTY

General

No regular maintenance is required on this product or any of its sub-units. In the case of faults, first check the regulated power supplies using the PSU monitor points.

Warranty



WARRANTY PERIOD

Hardware Products

Hardware Products are warranted for a period of two years from the date of shipment. During this period Pro-Bel, at its discretion, will repair or exchange products proved to be defective providing that the products are returned to Pro-Bel, carriage pre-paid. The Company will use its best efforts to ensure that returned items are repaired and despatched within ten working days of receipt. Third party items, including PC hardware or any outsourced equipment is limited to the original manufacturers warranty, typically one year.

Software Products

Software Products are warranted for a period of ninety days from the date of shipment. During this period Pro-Bel undertakes to rectify products proved not to conform to the published specification provided with the product, when used in accordance with PC hardware and operating systems approved by Pro-Bel.

Loans

Within the warranty period, the Company will, at its discretion and subject to availability, provide loan units pending the repair of returned items. Loans are offered on a no charge basis providing that the loan units are returned to Pro-Bel within a period of twenty one days following the date of despatch of the repaired items. In the event that the loan units are not returned within this period, the loan units will be subject to a monthly overdue charge, details of which are available on request. Carriage charges apply to all loans.

NON WARRANTY PERIOD

Outside the stated warranty period, the Company will use it's best endeavours to rectify equipment failures through the provision of spare parts or in house repair services.

Loan units may also be provided subject to availability. All services and carriage costs are subject to a scale of charges, details of which are available on request.

Uk Customers

UK customers should return modules for repair marked as follows:

Customer Support Department
Pro-Bel Limited
Danehill
Lower Earley
Reading
Berkshire
RG6 4PB
England Telephone: +44 (0)118 986 6123

US Customers

US customers should return modules marked as follows:

Customer Support Department
Pro-Bel America
5 Hub Drive
Melville
NY 11747 Telephone: 516 845 2132

Other Customers

Other customers should send the unit to their local agent, with the same information attached.