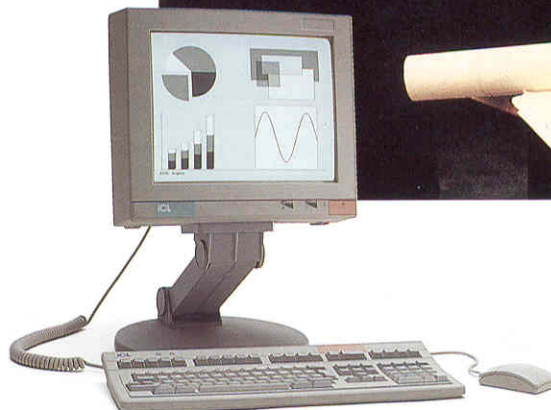


ICL A420G

ENHANCED ANSI (DEC)
TEXT & GRAPHICS TERMINAL

- Based on DEC VT420 and Tektronix 4010/4014 emulations
- PC Term emulation for DOS applications running on Intel-based UNIX/XENIX computers
- Dual-host and dual-session support
- Wide range of character sets and extensive key-programming facilities
- Many screen formats with dual-window and multi-page support
- Screen lock and password security features
- Five keyboard options allow a perfect match with your computing environment



ICL

Enhanced text and graphics terminal

ICL A420G is an enhanced ANSI (DEC) terminal for heavy-duty text and graphics applications. It supports both dual-host connection and operation with dual sessions. The standard version provides enhanced text and graphics emulations (DEC VT420 and Tektronix 4010/4014 respectively). Also included as standard is a PC Term emulation which makes it possible to run DOS applications in Intel-based UNIX/XENIX computers.

Other emulations, or enhancements to the standard choice, can be distributed on program cartridges which are easily plugged into the rear of the terminal (see below).

Exclusive features

In text mode you can choose from many screen formats – five choices within the range of 24 to 50 lines can be combined with 80 or 132 columns, with one or two lines for message/status reports at the bottom of the screen.

In graphics mode you can use a mouse as a supplementary input device, and you can use a local copy feature to get paper copies straight away. In this mode you can operate with two pages.

Enhanced connectivity and operation features let you handle two sessions concurrently, running in the same or in two different host computers. Utilizing the Session Support Utility (SSU) you can even run dual sessions on a single communications line. On the screen you can easily switch between the sessions, or watch both at the same time in two different windows. And, with the cut-and-paste facility, you can move information between the windows. Fast operation is ensured by multi-page support in all screen formats, including immediate update of the inactive session page.

If you want to change the regular keyboard functions, you have

access to extensive key-programming facilities. Any non-modifying key can be redefined at 16 levels using Shift/Ctrl/Alt/AltGr combinations, and each definition can be classified as normal, local or remote. Each key level may contain up to 256 characters within the available pool space. There are two ways of programming the keys, either locally via the set-up facility, or remotely via a host computer. Remote programming can be controlled from any terminal of a system – utilizing a report function for transferring key definitions to the host and subsequent broadcasting to other terminals connected to the same host.

You can choose between two modes of screen saving. In the no-field mode the screen is set in a state which completely eliminates the electrostatic field.

Unauthorized system access is prohibited by means of a security feature which locks the keyboard and blanks the screen, either at automatic screen saving or by a user-defined keyboard command. In addition, all set-up items classified as system parameters can be password protected.



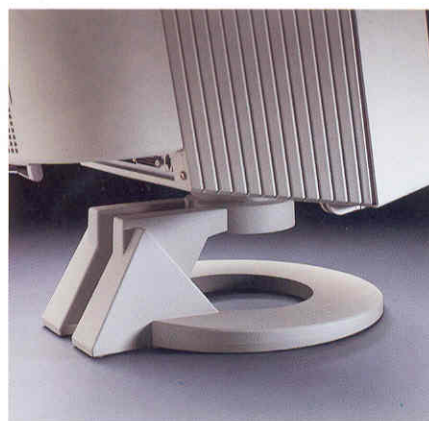
Future enhancements will come in easy-to-use plug-in cartridges.

Applied ergonomics good for users

ICL A420G is based on a large 15" flat-square, non-glare screen with minimized levels of electromagnetic and electrostatic fields. It offers positive black-on-white presentation with overscan. Excellent legibility is ensured by crisp characters on a flicker-free background.

The power on/off switch and display controls are all conveniently placed at the front. Easy tilt and swivel permit comfortable work postures and optional desktop stands enable you to further enhance work posture ergonomics. The stand shown below raises your terminal to a fixed height and provides a perfect keyboard parking space under the monitor, freeing considerable desktop space when the terminal is off-duty. A more exclusive stand, shown on the front page, adds the freedom to adjust the height.

The terminal is easily installed and set up by the user. Set up is made easy by an enhanced, menu-based on-screen guide.



Optional tilt and swivel stand with fixed height.

TECHNICAL SPECIFICATION

Emulations	DEC VT420/320/220/100/52, including Session Support Utility (SSU) and macro features (DECMAC, DECINVM, DSR - Macro Space Report and DSR - Memory Checksum Control). Tektronix 4010/4014 for graphics applications. PC Term emulation for DOS applications in Intel-based UNIX/XENIX computers. Future enhancements on plug-in cartridges.																																															
Host and printer interfaces	Three ports for dual host and printer connections: EIA RS232C (25-pin Sub D), EIA 232C/423 (6-pin MMJ) and EIA RS423 (6-pin MMJ). All operating with asynchronous, serial, full duplex protocol, 7 or 8 bits, 1 or 2 stop bits. Odd, even or no parity (mark/space). ON/XOFF, Ready/Busy, 75 to 38,400 baud, split speed on host lines (with certain restrictions).																																															
Keyboard and mouse interfaces	Keyboard: 5-pin DIN, TTL signal level, IBM AT/E protocol. Mouse: EIA RS232C (9-pin Sub D), asynchronous serial full duplex protocol, 7/8 bits ASCII, odd even or no parity.																																															
Keyboard programming	All non-modifying keys are programmable at 16 levels using Shift/Ctrl/Alt/AltGr-combinations. Up to 256 characters at each level (within available pool space). Each definition can be classified as normal, local or remote. Report function for transfer of definitions to host. Using DEC-compatible keyboards (see next page) you can operate in key position mode (set-up choice or DECKPM control) according to ANSI/ISO rules, and let the host select the appropriate modifier key mode through DECSMKR commands.																																															
Display monitor	15" flat-square, non-glare CRT. Effective display area: 267 x 200/256 x 200 mm (80/132 columns). Black-on-white image with over-scan (no black borders). Screen saver control via the set-up facility. 70 Hz non-interlaced refresh rate.																																															
Text mode characteristics	<p>Different screen formats are chosen by combining 24+2, 25+1, 36+2, 48+2 or 50+1 lines with 80 or 132 columns:</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th></th> <th>24/25x80</th> <th>24/25x132</th> <th>36x80</th> <th>36x132</th> <th>48/50x80</th> <th>48/50x132</th> </tr> </thead> <tbody> <tr> <td>Pixels (W x H)</td> <td>960x520</td> <td>924x520</td> <td>960x520</td> <td>924x520</td> <td>960x520</td> <td>924x520</td> </tr> <tr> <td>Character cells</td> <td>12x20</td> <td>7x20</td> <td>12x14</td> <td>7x14</td> <td>12x10</td> <td>7x10</td> </tr> <tr> <td>Character matrices*</td> <td>10x11</td> <td>6x10</td> <td>10x8</td> <td>6x7</td> <td>9x6</td> <td>6x6</td> </tr> <tr> <td>Character sizes (mm)*</td> <td>2.8x4.2</td> <td>1.7x3.8</td> <td>2.8x3.0</td> <td>1.7x2.6</td> <td>2.5x2.4</td> <td>1.7x2.4</td> </tr> <tr> <td>Line spacings (mm)**</td> <td>3.4</td> <td>3.8</td> <td>2.3</td> <td>2.6</td> <td>1.6</td> <td>1.6</td> </tr> </tbody> </table> <p>Character sets: 512 standard ANSI and VT420 (16 national versions), 96 downloadable, DEC special graphic, DEC supplemental, DEC technical, ISO 8859-1, IBM PC code page 437/850/865.</p> <p>Character attributes: normal, blink, reverse, underline, bold and protect.</p> <p>Line attributes: double width and double height.</p> <p>Page memory: 144 lines, 80 or 132 columns. Up to 6 single session pages, up to 3 pages per session in dual session mode. Automatic screen resizing when jumping between different page displays (set-up choice).</p>							24/25x80	24/25x132	36x80	36x132	48/50x80	48/50x132	Pixels (W x H)	960x520	924x520	960x520	924x520	960x520	924x520	Character cells	12x20	7x20	12x14	7x14	12x10	7x10	Character matrices*	10x11	6x10	10x8	6x7	9x6	6x6	Character sizes (mm)*	2.8x4.2	1.7x3.8	2.8x3.0	1.7x2.6	2.5x2.4	1.7x2.4	Line spacings (mm)**	3.4	3.8	2.3	2.6	1.6	1.6
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Graphics mode characteristics	Pixels (WxH): 684x512. Area: 256x192 mm. 2-page memory. Alpha, vector, incremented plot, point plot and GIN modes. 4 character sizes, 16 line styles.																																															
Power supply	Input voltage: 220-240 VAC \pm 10%, 47-63 Hz. Power consumption: 75/67/30 W (operating/normal/no-field save mode)																																															
Environment	<p>Ambient temperature: 5°C to 40°C. Relative humidity: 10-85%, non-condensing X-ray radiation**: < 100 nGy/h.</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Field levels** :</th> <th>Magnetic</th> <th>Alternating electric</th> </tr> </thead> <tbody> <tr> <td>Band I, 5 Hz - 2 kHz</td> <td>\leq 250 nT****</td> <td>\leq 25 V/m****</td> </tr> <tr> <td>Band II, 2 kHz - 400 kHz</td> <td>\leq 25 nT****</td> <td>\leq 2.5 V/m****</td> </tr> </tbody> </table> <p>Electrostatic potential: within \pm 500V</p>						Field levels** :	Magnetic	Alternating electric	Band I, 5 Hz - 2 kHz	\leq 250 nT****	\leq 25 V/m****	Band II, 2 kHz - 400 kHz	\leq 25 nT****	\leq 2.5 V/m****																																	
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Physical data	Size: 325 x 366 x 355 mm (H x W x D) Weight: 11 kg																																															
Approvals/certifications	<table border="1" style="width: 100%; border-collapse: collapse;"> <tbody> <tr> <td>EMI</td> <td>VDE 0871 Class B, IEC 435</td> </tr> <tr> <td>Safety</td> <td>GS, EN 60950</td> </tr> <tr> <td>Ergonomics</td> <td>GS, Tüv Ergonomie Geprüft, SWEDAC MPR 1990:8/1990:10</td> </tr> <tr> <td>Telecommunications</td> <td>FTZ, Telenämnden</td> </tr> </tbody> </table>						EMI	VDE 0871 Class B, IEC 435	Safety	GS, EN 60950	Ergonomics	GS, Tüv Ergonomie Geprüft, SWEDAC MPR 1990:8/1990:10	Telecommunications	FTZ, Telenämnden																																		
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Options	Choice of five keyboard models (see next page). Desktop stands for enhanced ergonomics.																																															

* Matrix and character sizes refer to the capital letter H.

** In accordance with the SWEDAC definitions of measurements: MPR-P 1987:1/1988:1 line spacings) and MPR 1990:8/1990:10 (radiation and fields).

*** Measured 50 cm around the screen

**** Measured 50 cm in front of the screen

Matching keyboards

ICL A420G is intended for various computer environments, and a choice of five different ICL keyboards (based on three main models) makes it easy for you to obtain a perfect match for your environment and main usage.

In environments dominated by DEC emulations (VT420/320/220/100/52), choose the model which is layout-compatible with the DEC standard LK401. There is also a model which is layout-compatible with DEC LK402 (WPS print added on keytops). Choosing one of these keyboards also makes you DEC-compatible with respect to Key Position and Select Modifier Key Modes.

When connected to an environment of Intel-based UNIX/XENIX computers you may benefit from the IBM AT/E-model keyboard.

Operating in an IBM 3270 environment, the natural choice of keyboard would be the 3270 model. In a mixed environment with both IBM and DEC emulations, there is also a model with 3270/VT-layout.

All these ICL keyboards are available in a number of language versions and feature low-profile design and adjustable tilt for maximum user convenience.



Main models (top to bottom): KB 108, KB 102-2 and KB 122-2

Keyboard main models:	KB 108	KB 102-2	KB 122-2
Layout-compatible with	DEC LK40X	IBM AT/E	IBM 3270
Number of keys	108	102	122
Key position mode	Yes	No	No
Select modifier key mode	Yes	No	No
Auto repeat rate	10.8 Hz	10.8 Hz	10.8 Hz
Adjustable tilt	2°/9°	2°/9°	6°/11°
Cable length	1.8 m	1.8 m	1.8 m
Width	484 mm	469 mm	510 mm
Depth	188 mm	185 mm	210 mm
Height to A-row	26 mm	26 mm	27 mm
Height, max.	46 mm	47 mm	64 mm
Weight	1.2 kg	1.3 kg	1.5 kg

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For further information contact:

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