Black Star 3332 Logic Analyser

Specifications

Acquisition: 32 channels at 33MHz maximum external clock rate. Data capture is in single, repeat or condition repeat modes. Single mode will do one acquisition. repeat mode will keep doing single acquisitions with a 3 second delay between acquisitions. Condition repeat will keep doing single acquisitions until a comparison between acquisition and reference memories fails. (The failure parameters are selectable)

Clocks: Internal clock 100Hz to 33MHz. 2 external clocks DC to 33MHz positive / negative edge.

Triggering: 2 x full 32 bit trigger words. Trigger on either word. Set in either HEX, OCTAL or BINARY. The trigger may be held off so that 2 clocks are required to recognise any trigger. Also the trigger may be delayed until the memory is full.

Trace: Full 32 bit trace word. Set in either HEX, OCTAL or BINARY.

External Triggering: Full 32 bit external trigger output.

Inputs: Either TTL levels (1.4V0 or HC levels (2.5V). Input impedance 100k.

Memory: Full 2k deep non-volatile memory for both acquisition and reference memory on all 32 channels.

Display: 128 x 64 graphics LCD with up to 20 x 8 characters.

Display Modes: Timing display with 8 channels of timing data with selectable resolution from 2048 to 16 locations. This mode also shows cursor and timing bar and one state line in the chosen format. State mode with 6 locations displayed in 16 selectable formats in combinations of HEX, OCTAL or ASC11. This mode also has a cursor bar to show the position in memory. The user may also select compare mode when differences between the acquisition and reference memory are highlighted. In both modes the user may select to display either the acquisition memory or the reference memory.

Compare: The user may compare both memories and select the start and end memory location for the comparison.

Search: The user may search for a word in memory.

Printouts: Timing diagram for 32 channels and 32 bit state output to EPSON compatible printer using RS232 serial output at 4800 baud.

Operation: The analyser is operated using menus and function keys. Full context sensitive help is always available.

Outputs: The trigger output goes high whenever the first 32 bit trigger word is recognised.

Supplied Access: Instruction Manual, I.E.C. Mains Lead, Spare Fuse.

Optional Access: **PersonalityModule PM3332**

Provides convenient connection between 5V logic or microprocessor systems and the 3332 via 0.5m 40-way ribbon cable. Wire wrap pins provide user-configerable inputs. A 40-way IC socket is provided for optional mounting of the target system microprocessor. All inputs are buffered. Solder-on configeration boards are provided for users of 6502 and Z80 microprocessors.

Communications Pod CP3332:

Simplifies monitoring of Centronics, GPIB, and RS232 communication buses by the 3332. RS232 9-way, 25-way male and female D connectors, two 36-way Centronics connectors, and a 24-way GPIB connector are provided on a single PCB with 0.5m 40-way ribbon cable connection to the 3332.

General:

Operating Temp:	0ºC to 40ºC (Specifications apply from 16ºC to 26ºC).
Power Supply:	110/120V AC or 220/240V AC 50/60Hz, user adjustable.12VA.
Size:	219 x 240 x 98mm (product only) 310 x 330 x 135mm (packed)
Weight:	1.8kg (product only) 2.3kg (packed)