MENU / generation 1 — User manual

Library: `src/lib2/menu/1/`
Edition: 2026-11-18, source/document review (documentation only)
Qualification: CLARITAS Wave 4 source/native parity accepted; independent menu, key and display behavior remains consumer-specific.

What this member does

Validate, render and dispatch 4-function-key menu groups stored as fixed 68-byte ROM records.

Public interfaces

Entry point or group	Inputs, outputs and behavior
`MNU_INIT`	`$10/$11` ROM table base, `$12` group count; validates aliases/collisions and records active group; `$0` error/success.
`MNU_SHOW`	Render current title, captions and cursor state; returns status.
`MNU_NEXT`	Advance group cyclically and draw it.
`MNU_WAIT`	Block on key and return a menu dispatch/exit code (caller should inspect exact source).

How to integrate

Prepare a contiguous ROM table with valid aliases; supply table pointer in `$10/$11` and nonzero count in `$12`; `CAL MNU_INIT`; if accepted, `CAL MNU_SHOW`; loop over `MNU_WAIT`, dispatch FK/exit events, and `MNU_NEXT` for other groups.

Composition sketch (not an independently assembled client):

```
        LDW     $10,MY_MENU_TABLE
        LD      $12,1
        CAL     MNU_INIT            ; inspect $0 before display
        CAL     MNU_SHOW
        CAL     MNU_WAIT
```

Environment, dependencies and memory

Each record is 32-byte title + 32-byte captions + 4 alias bytes. Requires `LCD_CLEAR`, `LCD_ROM32`, `CUR_OFF`, `KEY_WAIT`, `RAW_READY`, key constants and caller-allocated UA14 `MNU_*` state from platform defs. Non-reentrant.

Limits and evidence

Invalid/colliding aliases reject initialization. Public `MNU_*` here are not independent of display/keyboard scaffold; test event mapping in the client.

This documentation does not introduce a new build or runtime PASS. Source equivalence, native assembler parity, emulator execution and physical-machine evidence remain distinct.

Actual source and further reference

- This exact member folder in Google Drive
- Source modules: `menu.s`.
- Further contracts/source notes: menu.s. These may include dated donor paths or older acceptance statements.
- For a new consumer, pin exact source files and hashes, verify full include closure, inspect register/bank/resource conflicts and test the resulting application on each claimed target.

Praeteritum ad futurum servamus.