250 ml

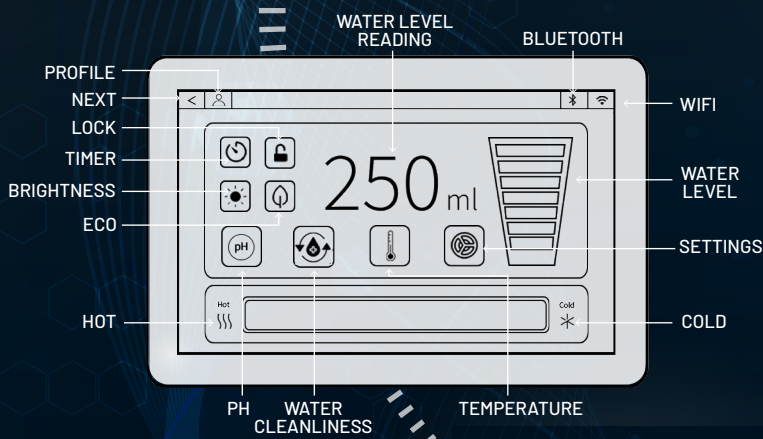**4 GEN SERIES**

PRODUCT
BRIEF

Slim, intelligent, full colour GEN4 display modules
powered by 4D LABS DIABLO-16 processors

WATER LEVEL READING
BLUETOOTH

PROFILE
NEXT
LOCK
WIFI
TIMER
BRIGHTNESS
WATER LEVEL
ECO

250 ml

SETTINGS

HOT
Hot   Cold
COLD

PH   WATER CLEANLINESS   TEMPERATURE

IDEA

ON/OFF BUTTON

〉〉〉   ✳

HOT BUTTON   COLD BUTTON

4D SYSTEMS
MAKING HUMAN INTELLIGENCE SMARTER
www.4dsystems.com.au
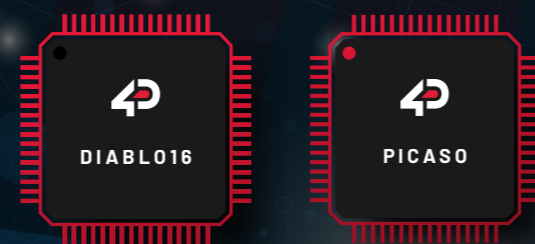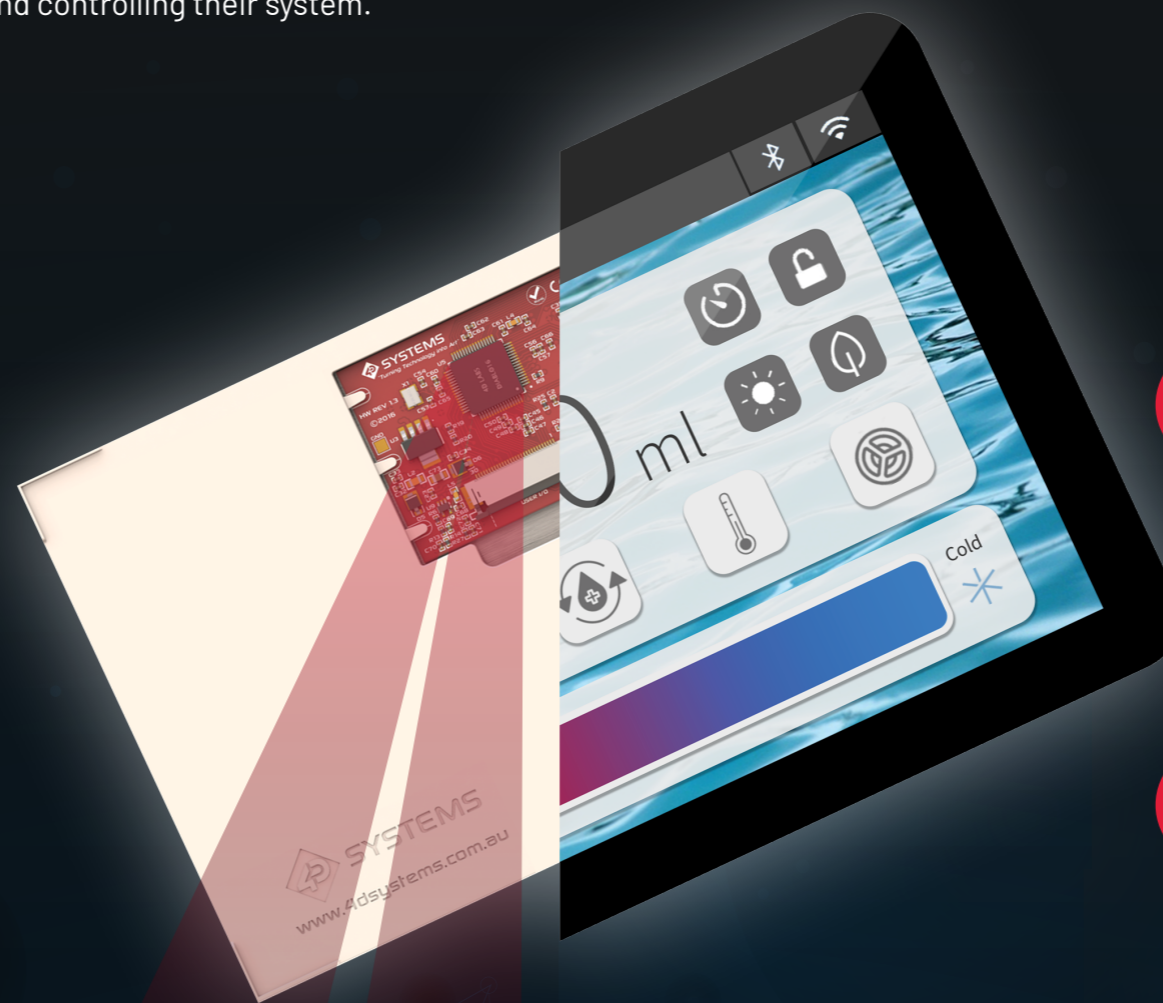
CERTIFIED
ISO 9001
CERTIFIED

THE SOLUTION FOR EMBEDDED DISPLAYS & TOUCHSCREENS

The GEN4 series of display modules has been designed by 4D SYSTEMS to minimise the impact of display related circuitry and provide a platform suitable for integration into a product that will substantially benefit from an embedded display solution. Designed specifically for ease of integration and use, with careful consideration for space requirements and functionality, the GEN4 Series is 100% compatible with the Workshop4 IDE and its 4 different development environments, providing product designers and engineers with a wealth of options for programming and controlling their system.

PROCESSOR SPECIFICATIONS

	PICASO	DIABLO-16
DISPLAY SUPPORT	Supports OLED, LCD & TFT displays	
SD CARD SUPPORT	Micro-SD: up to 2GB SDHC: 4GB and above	
AUDIO SUPPORT	Audio support for wave files & complex sound generation with a dedicated 16-bit PWM audio output	
FILE ACCESS	DOS compatible file access (FAT16 format)	
MEMORY	Flash memory for user codes: 14KB / SRAM for user variables: 14KB	Flash memory for user codes: 6 banks x 32KB / SRAM for user variables: 32K
SPECIAL FEATURES	Built in high performance virtual processor core(EVE) optimised for 4DGL,the high-level 4DGraphics Language, using - 1/10 of the code -space compared to most other processor implementations	30 pin FPC connection for all signals, power & communications, including 16 general purpose I/O pins for user interfacing, which include 4 variously configrable analogue inputs for alternative functions.

DISPLAY SPECIFICATIONS

DISPLAY SIZE	2.4" - 7.0" Cover lens bezel available for display sizes from 3.2" and above
DISPLAY RESOLUTION	240 x 320; 480 x 272; 480 x 320; 800 x 480
DISPLAY RESOLUTION	150 - 1000 nits
DISPLAY TYPES	Resistive; Capacitive; non-touch
SUPPORTED PROCESSORS	PICASO & DIABLO-16 by 4D LABS
IDE	Fully supported by Workshop4 IDE
FONT AVAILABILITY	Supports Window fonts
MODULE CAPABILITY	Audio, full color images, animations, icons & video clips
IoT CAPABILITY	Yes, upon request
CUSTOM DESIGN CAPABILITY	Yes, upon request
RoHS COMPLIANCE	Yes
CE COMPLIANCE	Yes

DIABLO16

PICASO

4D SYSTEMS
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www.4dsystems.com.au

DIGITAL TRANSFORMATION

Transition your product from traditional knobs and buttons to a digital display interface, or when designing new range of products, the GEN4 Series is versatile and offers transformational benefits ranging from:

- Incorporating significantly increased number of choices, right at your fingertips;
- The ability to incorporate IoT options that help make smarter choices;
- Offering a hygienically safer surface by utilising touchscreen displays and remote interfaces;
- Reducing maintenance costs as well as digitally upgrading better options and choices.

OPTIMISED SPACE USE

When space is limited, our GEN4 Series provides sleek adaptability without compromising on the aesthetics. Applications like elevator call buttons should be more than a mechanical button; they can be an architectural expression of aesthetic design, just as display screens that might be needed in industrial applications with limited space but still maintaining aesthetic graphical user interface.

INTERACTIVE ENVIRONMENT

From interactive features in cars, to industrial workspace the PICASO & DIABLO-16 processors that drive the GEN4 series of embedded display solutions, can be programmed using our Workshop4 IDE even by a novice. And engineers and product designers can incorporate functions limited only by their imagination.

4D SYSTEMS
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