

## CPM and HHI human machine interfaces



The units of iblos human-machine interfaces are operate and display devices for the application in mobile working machines of the municipal, construction and agricultural technology as well as in commercial vehicle superstructures. IBL-hydronic offers a wide range of interface units for different applications.

### Advantages

- Flexible, powerful, cost-effective, reliable
- Lower constructed space due to the compact construction
- Outdoor mounting possible
- Ideal integration because of central connector
- 100 % compatible with vehicle signals and environment

### Typical technical features

- Supply voltage electronic 12/24 V<sub>DC</sub>
- Supply voltage for the outputs 12/24 V<sub>DC</sub>
- Self restore fuse
- Load-dump-protected
- Applicable for vehicle power
- Voltage internally controlled
- Bolt flange or mounting adapter
- Vibration and shock resistant
- Up to -40 °C to +85 °C
- Up to IP67
- CAN network, data communication at operating download, parameterization
- In practice/tests proved impassivity to interference (EMC)

### HHI-20

The HHI-20 combines the control system with a graphical operate and display device for the application in mobile working machines of the municipal, construction and agricultural technology as well as for commercial vehicles. Because of the high computing and graphic power the iblos-HHI-20 is particularly suitable for complex control systems with extensive operate options. So you do not need a separate central control unit and you need only lowest I/O-units on the CAN network for controlling your machine. The HHI-20 realizes operate control screen in independent graphic layers, the camera picture in real-time shown in a separate and independent video-window and the complete control of the machine.

- Comfortable Windows-configuration tool for selfmade professional graphics
- User-programmable in Codesys and/or C for machine control functions
- Up to 5 separate 29-bit CAN-IDs
- Ethernet, USB, EIA-232 (RS-232), SD-card memory external up to 2 GiB
- Internal memory 8 MiB SDRam, 2/8 MiB Flash for machine control
- Internal memory 64 MiB DDR-Ram, 32 MiB Flash for graphics
- Reference voltage 12 V for camera supply
- Up to 3 real-time video inputs for s/w and 24-bit color, overlay, mirror
- Standard displays color TFT up to 24-bit color, 7 inch 800 × 480 pixel, -20 °C to +70 °C, 600 Lumen/m<sup>2</sup>
  - Further display types on customers request or application demand
- Analog touch panel and encoder for operation
- Additional customized plastic foil keyboard
- External analog and digital in/outputs
- Also available as CANopen unit

### HHI-04

The devices are application-specific constructed with previous operating and displaying elements, joystick, text or graphic displays. It is also as control computer usable and particularly qualified to control working platforms and cranes.

- User-programmable customized plastic foil keyboard or standard buttons/switches
- 4 × 20 symbols text display or graphic display 2,8 inch; 120 × 64 pixel
- Emergency stop, keyswitch, joysticks
- Up to 12 analog/digital in
- Up to 12 digital inputs
- Up to 2 counter
- Up to 2 PWM
- Up to 12 digital out

### HHI-01

Usable as control computer with integrated operating and displaying function for small-sized control systems. In service and production the HHI-01 can be used as hand-held parametrize device.

- User-programmable
- Plastic foil keyboard with 18 buttons
- 4 × 20 symbols text display or graphic display 2,8 inch; 120 × 64 pixel
- Buttons, emergency stop, keyswitch, joysticks

### CPM-01

The devices are application-specific constructed with previous operating elements and plastic foil keyboard. The device has a graphic display. They are particularly suitable for the application in motor trucks and transporters.

- User-programmable
- Plastic foil keyboard (customized layout possible)
- Separate internal analog, digital(counter) in- and outputs for frontal operating elements
- In- and outputs for external signals and actuators:
  - Up to 5 analog/digital inputs
  - Up to 21 digital inputs
  - Up to 4 counter
  - Up to 6 × 2 PWM
  - Up to 12 digital out

## Contact

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**Features**

No features listed.