

# Mobile Panels System overview

PERFECTION IN AUTOMATION  
[www.br-automation.com](http://www.br-automation.com)





## Web meets automation

Operators of industrial machinery and equipment want interfaces with smartphone-like usability. That's exactly the kind of intuitive HMI solution that is available with the B&R's 7100-series Mobile Panels.

Mobile Panels are available in sizes ranging from the 3.4" WQVGA displays of the 7120 and 7121 models, which can be operated as VNC clients, up to the 7" WSVGA and 10.1" WXGA displays of the 7140 and 7150 models, which offer the additional option of running B&R's innovative mapp View HMI software. The 7151 model, also with a 10.1" display, runs a Windows-based operating system for all types of applications.

### Web-based HMI made easy

Modern websites and smartphone operating systems are designed by large teams of usability, design and ergonomics specialists. OEMs don't typically have those kinds of resources at their disposal. To bridge the gap, what they need are easy-to-use tools integrated in their familiar programming environment.

With mapp View, B&R now offers direct access to the wide world of web technology on mobile industrial HMI panels. For the first time, automation engineers have all the tools they need to create

powerful and intuitive HMI solutions – and they don't have to be an expert web developer to do it.

### The right info at the right time

Operators aren't impressed by fancy graphics alone. The HMI needs to directly facilitate the primary goals of industrial production: maximum productivity and minimum downtime. mapp View is the perfect solution for creating intuitive and clearly arranged screens that guide the operator intuitively through every step.

### The right content for every client

With mapp View, B&R relies 100% on web standards that allow content to be displayed optimally on any output device or even customized for specific users or user groups. Conventional approaches require considerable resources and expertise to develop screens for all the different output media.

#### Highlights

- All the advantages of web technology
- Fully integrated in the engineering environment
- Highly reusable
- Maximum productivity
- Modular architecture





**Mobile handheld operating devices offer users maximum flexibility – allowing them to operate the machine right from the center of the action. B&R’s extensive portfolio offers a solution for every application, ranging up to a 10.1” device with the performance of an industrial PC.**

#### **Ergonomic design**

B&R’s mobile operator panels are comfortable to hold – for both right and left-handers – and do not cause fatigue even after working for longer periods of time. The low-weight construction also helps ensure safe operation and monitoring.

#### **Robust design for harsh industrial environments**

By nature, a handheld system like the Mobile Panel is exposed to significantly more rigorous demands than its stationary counterparts. That’s why the Mobile Panel has a particularly robust design, with double-walled housing to absorb hard impacts. Control elements such as key switch and stop button are flush-mounted, and the special housing form dampens the force of impacts. The Mobile Panel’s electronics are positioned to absorb external shocks and jolts as effectively as possible, while the housing, cables, and connectors are all protected against dust and sprayed water.

#### **Integrated safety functions**

The mobile operator panels are equipped with a 3-position enable switch. When the machine is in setup mode, the operator is only able to perform operations such as triggering movements when this switch is in the middle position. If it is released or pressed in all the way in a critical situation, the machine goes into a safe state. All safety functions have a dual-circuit design.

#### **Simple and intuitive operation**

The combination of integrated touch screen and function keys provides an optimal user interface. Frequently used functions can be assigned to pre-programmed keys, while functions that vary based on the state of the machine can be assigned to touch buttons. This ensures that operators are guided safely through all of their tasks.

#### **Highlights**

- High-resolution displays
- Intuitive touch-screen operation
- Robust construction
- Low weight
- Ergonomic layout for right or left-handed operators





Mobile Panel →

	MP7120	MP7121	MP7140
Display	3.4" TFT display	3.4" TFT display	7" TFT display
Resolution	WQVGA (480 x 272)	WQVGA (480 x 272)	WSVGA (600 x 1024)
Touch screen	Analog resistive	Analog resistive	Analog resistive
Processor	ARM Cortex A8 Single core 600 MHz	ARM Cortex A8 Single core 600 MHz	ARM Cortex A9 Single core 1.0 GHz
Memory	256 MB flash memory	256 MB flash memory	4 GB flash memory
DRAM	128 MB LPDDRAM	128 MB LPDDRAM	1 GB DDR3
Interfaces	Ethernet 10/100 USB 2.0 OTG (mini)	Ethernet 10/100 USB 2.0 OTG (mini)	Ethernet 10/100 USB 2.0
Switching elements	Key switch Stop button (gray) Enable switch Push-button	Key switch Stop button (gray) Enable switch Push-button Handwheel	Key switch Stop button (gray) Enable switch
Keys/LEDs	36 membrane keys 4 LED status indicators	20 membrane keys 4 LED status indicators	20 membrane keys 5 LED status indicators
Software	VNC (Linux)	VNC (Linux)	mapp View VNC (Linux)
Protection	IP65	IP65	IP65
Weight	480 g (without cable)	480 g (without cable)	960 g (without cable)



Mobile Panel →

	MP7150	MP7151
Display	10.1" TFT display	10.1" TFT display
Resolution	WXGA (1280 x800)	WXGA (1280 x800)
Touch screen	Analog resistive	Analog resistive
Processor	ARM Cortex A9 Single core 1.0 GHz	Intel Atom E3815 Single core 1.46 GHz
Memory	4 GB flash memory	32 GB flash memory
DRAM	1 GB DDR3	4 GB DDR3
Interfaces	Ethernet 10/100 USB 2.0	Ethernet 10/100 USB 2.0
Switching elements	Key switch Stop button (gray) Enable switch	Key switch Stop button (gray) Enable switch
Keys/LEDs	21 membrane keys 5 LED status indicators	21 membrane keys 5 LED status indicators
Software	mapp View VNC(Linux)	WES7
Protection	IP65	IP65
Weight	1850 g (without cable)	1850 g (without cable)

Integrated automation  
Global presence  
Solid partnership



B&R Corporate Headquarters  
Bernecker + Rainer  
Industrie-Elektronik Ges.m.b.H.

B&R Strasse 1  
5142 Eggelsberg, Austria

t +43 7748 6586-0  
f +43 7748 6586-26

office@br-automation.com  
www.br-automation.com

Your local contact  
www.br-automation.com/contact

MM-FD-HMI-MP-EN-02  
© 02/2017 by B&R. All rights reserved worldwide.