

REA JET

INDUSTRIAL CODING AND
MARKING SOLUTIONS –

REA JET HR 4K

High resolution coding & marking system
based upon HP technology



Coding & marking family REA JET HR is growing: REA JET HR 4K



REA JET has expanded their successful REA JET HR marking & coding family. Up until now, the HR 2K with the protection class IP 65 for direct on-site operation and HR pro 4K with the protection class IP 20 for control cabinet installation were available. The HR 2K can be directly operated over the graphic display with max. 2 print heads. The HR pro 4K has a smaller display for parameterizing and is operated using the integrated web server. On the HR pro 4K, up to 4 print heads can be operated. With the new HR 4K in IP 65 version for max. 4 print heads, the controller series will be expanded for direct on-site operation.

The REA JET HR pro 4K is based on the HP TIJ (Thermal Ink Jet) technology which has proven itself billions of times. The REA JET HR pro 4K marking & coding system with a max. print height of 50.8 mm, makes the well-known HP technology for marking & coding in the office available for the industrial environment. REA JET has maintained their outstanding position in the field of industrial marking & coding systems with the following characteristics:

- **Stainless steel control device in IP 65 of design**
Particularly suitable for the demands in a raw, industrial environment.
- **Stable print head with an aluminum design (milled from solid material)**
This well thought out construction optimally protects the cartridge in harsh daily industrial use. One TIJ cartridge can be inserted per print head. With this, a marking height of maximum 12.7 mm per print head is available.
- **Simple cascading of the print heads**
The print heads can be simply and perfectly cascaded thanks to the precise, permanently integrated assembly aids (dowel pins and notches). With these, a print height of up to 50.8 mm can be achieved with the REA JET HRpro 4K.
- **Compact dimensions**
Despite the very sturdy design of the print head, it has very small dimensions. This compact print head design enables the integration in almost every machine / system without additional print head variations being necessary.
- **Locking lever for the cartridge with integrated position monitoring**
This wear-free monitoring (using a magnet sensor and not a mechanical switch) enables the removal / exchange of the cartridge without the control device needing to be manually stopped beforehand. The stop of the control device is automatically triggered using the monitored locking lever. This guarantees safe handling of the cartridge without additional intervention of the user.
- **Use is intuitive and easy to learn**
The interaction takes place using an industry compatible (very light and high-contrast) fully colored graphic display with a diagonal of approx. 14.4 cm (5.7 inches). As a central element for the input and operation, the REA JET HR is equipped with an industrial compatible rotary knob with pushbutton function. Additionally, a keypad, diverse special buttons and five menu-dependent function buttons are available. This reduces the training period to a minimum with continued high operational safety.
- **Graphical user guidance in many languages**
The integration of over 20 various user languages and the optimally implemented continuous graphical user guidance make worldwide implementation simple.
- **Modular concept**
The modular concept, which is used for all components, allows problem-free and economical adaption of the marking & coding system that meets various customer requirements.
- **Comprehensive range of accessories**
The well-thought-out range of accessories with many handy components such as brackets, I/O connecting elements, signal lamps, various product sensors, etc., enables simple and quick integration. These are, like the new HR 4K, also available in protection class IP 65.
- **Control unit with wide-range power supply unit**
The wide-range power supply unit used in the REA JET HR 2K control unit is designed for networks with 95V – 250V AC at a frequency of 50 – 60 Hz.

With this, only one control unit is needed worldwide, which simplifies the work of many machine manufacturers and globally active firms.

▪ **Support of True Type Fonts (TTF) and the Unicode character set.**

The support of true type fonts guarantees that the corresponding TTF can be used directly in the REA JET HR without converting or editing. This also applies to customer specific TTF. The support of Unicode character sets, with existing corresponding fonts, enables the use of variable print contents in every language.

Especially in marking of overpacks in so-called “End of Line” applications, larger marking ranges are needed. In these applications, the data input is often required on site. Now with the new **HR 4K** REA JET also has the solution for this applications.

	REA JET HR 2K	REA JET HR 4K	REA JET HR _{pro} 2K	REA JET HR _{pro} 4K
Dimensions (approx.) (L / W / H) Weight	308 x 287 x 142mm 10 kg	355 x 287 x 142mm 9.1 kg	265 x 176 x 100mm 4.1 kg	350 x 176 x 100mm 8 kg
Protection class of the housing	IP 65	IP 65	IP 20	IP 20
Max. attachable print heads	2	4	2	4
Max. marking height	25.4 mm	50.8 mm	25.4 mm	50.8 mm
Digital inputs (24V DC)	6	12	6	12
Digital outputs (24V DC)	4	8	4	8
Processing performance	Standard	Standard	High performance Especially suitable for serialization applications	
Device display - Type - Size	Full-color graphic display Diagonal from approx. 14.4 cm (5.7 inch)		Full-color graphic display Diagonal from approx. 8.9 cm (3.5 inch)	
Operating element	Numeric keypad and cursor keys, the keys Start, Stop, ESC, DEL, OK, HELP, Menu and Backspace, five context dependent functional keys and a rotary knob with push-button function		The network address can be set and a job can be selected and assigned on the device.	
Device operation	Especially suitable for applications where the entries will be made on-site.		Especially suitable for integration in the installation / machine.	
Webserver	Yes	Yes	Yes	Yes
VNC	Yes	Yes	Yes	Yes

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