

Work Time Recorder with Camera

User manual

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This equipment has been designed and manufactured to conform to the following EC Standards:

EMC: EN55022:1998+A1:2000

EMC: EN55024:1998+A1:2001

Failure to use the equipment in the manner described in the product literature will invalidate the conformity. A “Declaration of Conformity” statement to the above is available on request.

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Introduction

The **RCPlus** recorder provides an easy way to record the working time and attendance of employees and guests and to keep track of staff on-site presence.



- ✓ Photo registration
- ✓ Fast
- ✓ Simple use
- ✓ Reliable
- ✓ Easy to integrate
- ✓ Water resistant
- ✓ Configurable, open architecture

It has been designed to enable **fast** (two separate in/out areas) and **reliable** (matching user-ID with a photo taken at the time of action) solution for **clocking in**.

It is built of two RFID readers (in/out), a 5-MPix wide angle camera used to authenticate the events, two touch buttons and 2-line, 16 chars alphanumeric display, enclosed in an IP65 rated box.

Display shows the date and time info, device status and user ID (card's number or user's name).

Recorder is IP64 rated. It can be equipped with additional features, such as IR diodes, WiFi module, GSM module, GPS receiver, barcode reader. It can utilize an exterior camera for taking additional photos.

Recorder runs on Raspbian, Linux based operating system, what provides for an easy integration with any time attendance and payroll system.

It can also be used as an access control terminal, with additional external RFID readers installed.

Operating

User presents the ID card/token/chip to one of the built-in RFID readers initiating the event. The RCPlus recorder saves the entry to the file along with a photo/s. It prevents any accidental or intentional exchange of an identity card as the taken images show the person who used the reader. Built-in RFID readers (in/out) allow registration of the beginning and the end of work/visit separately by means of cards, tokens or chips, using RFID Unique 125kHz transponders (iButton, MiFare versions are also available). Two configurable touch buttons can be used to distinguish entries and exits such as private and staff. This solution simplifies a recognition of an event type.

Recorder stores data in a built-in memory. Data consists of TXT files and JPG images taken by a camera.

Recorder communicates with a Time-Attendance-Server (TAS) using various media: LAN, WiFi, GSM (depending on equipment/option/version installed), sending the stored data to the User's server. When LAN or GSM connection is used, the terminal obtains IP address automatically (DHCP), for WiFi it requires entering settings manually.

Server can be accessed by authorized personnel, such as Accounting, Management, HR for analysis and further use.

Technical data

Data storage capacity	min. 6GB
Image resolution	640 x 480 (configurable)
Average image size (KB)	40 kB (JPG)
Number of images taken at event	2 to 5 (configurable)
Minimal delay between consecutive photos	0,2 sec
Number of recorded events (2 photos per event)	est. 45.000
IP rating	IP 64
Working temperatures	-20°C - +40°C
Power supply	9 - 25 VDC
Power consumption	~2W
Dimensions (w / h / d)	160mm / 130mm / 60mm

