



high-yielding products

PRERECORDING

RAYMATIC Prerecording Robot PR-02

1. Prerecording system

- Cycle time per disc
 - Full Verify d 4.8 Sec.
 - Quick Verify d 4.6 Sec.
- Eight spindle position input table
- Eight spindle position output table
- Two spindle position reject table
- Sound and light indication
- LCD and IPC (Industrial Personal Computer)
- Separate device power supply with adaptive control
- Eight prerecorders
- Technical support
- Attractive price

2. Prerecording software

- Flexible prerecording function (support 8x prerecording format, upgradable to 12x and 16x)
 - Write power display after writing
 - Display of drive information, OPC, disc statistics and results for easy maintenance:
 - display of status and error messages
 - Full, quick and without verify setting
 - Full Verify – verifies all ECC blocks of prerecording area
 - Quick Verify – verifies first and last ECC block of prerecording area
 - Writing speed to be selected – 1x, 2x and 4x

3. Order information

Order number: # 110 102



Trepetlika Str. 7
1407 Sofia
Bulgaria

Phone: +359 2 86 86 203
Fax: +359 2 962 58 19
info@raymatic.com
www.raymatic.com

Raymatic Digital Solutions Inc.

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4. Technical Specifications

Designated use

The Raymatic Prerecording Robot PR-02 is intended for the automatic prerecording of blank DVD-Rs, only. Any other use beyond this scope of use is deemed as not in accordance with the

General

This product description is intended to make the user familiar with the design and function of the RAYMATIC Prerecording Robot PR-02. The RAYMATIC Prerecording Robot PR-02 is a pneumatic and automated machine controlled by a digital controller and computer. designated use. The special feature of this method of data prerecording has been protected by standards, patents and has been adapted to market requirements every since.

Function

The prerecording operation of the RAYMATIC Prerecording Robot PR-02 is performed fully automatically by pneumatic mechanisms that are controlled by a digital servo controller. This automatic process is superior to the manual prerecording in terms of process effectiveness and cost efficiency. Please, refer to the performance tables on page 3 for the DVD-R disc feed rate per hour of the RAYMATIC Prerecording Robot PR-02.

Subassemblies

The RAYMATIC Prerecording Robot PR-02 basically consists of the following subassemblies:

- Revolver tables (input and output table)
- A cassette with 8 RAYMATIC Prerecording Drive PD-104
- Pneumatic equipment
- Power electronics
- Industrial computer
- Servo controller

General features and requirements

Feature	Detailed description
Product noise level	The RAYMATIC Prerecording Robot PR-02 meets a noise level of 80 dB or under.

Pneumatic specifications

Feature	Detailed description
Input air pressure	6 bar (88.2 psi)
Input air requirements	Air Requirements 3rd class according to DIN ISO 8573-1. <ul style="list-style-type: none"> • Particles maximum diameter d 5 µm • Particle concentration (dust) d 5 mg / m³ • Oil concentration d 1 mg / m³ • Water condensation MPDP (max. pressure dew point) e-20 °C
Air consumed	280 l / min at 6 bar air pressure

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Performance of RAYMATIC Prerecording Robot PR-02

Feature	Detailed description
Input revolver table	8 spindles x 150 discs each = 1,200 discs
Output revolver table	8 spindles x 100 discs each = 800 discs (optional: up to 150 discs/spindle)
Reject table	2 spindles x 150 discs each = 300 discs
Robot's DVD-R disc feed rate	782 discs / hour with Quick verify 750 discs / hour with Full verify (5 spindles / hour)
Robot's DVD-R disc prerecording rate	4.6 sec / disc with Quick verify 4.8 sec / disc with Full verify

Chassis and mains power

Feature	Detailed description
Chassis base dimensions	Width: 1,860 mm Height: 1,550 mm + indicator lamp 350 mm (total 1,900 mm) Depth: 816 mm Weight: 700 kg
Chassis type	Aluminium rods 80 x 80 mm Sheet metal cover Sheet plastic top cover Transparent window and door material: 8 mm plastics
AC voltage label	AC input voltage text is printed on the rear side of the chassis near
the AC receptacle.	
Input voltage (RMS)	220 V \pm 20% (176 ... 264 V AC)
AC line frequency	50 Hz \pm 6% (47 ... 53 Hz)
Power consumption	P nom. = 1,000 W

Environmental characteristics and clean room climate

Feature	Detailed description
Operating temperature range	18 °C to 26 °C
Storage temperature range	- 40 °C to 70 °C
Operating humidity range	35 % to 50 % (Non-condensing)
Altitude (maximum)	4,000 m
Clean room requirements	MI 4.5 / Class 1,000