

SINGULUS  
MASTERING   
THE ART OF MASTERING.



 **AM Master**

Glass Mastering for any Format

# AM Master

## HIGH SPEED, HIGH QUALITY MASTERING

The AM Master is a fully integrated in-line glass mastering system. It offers unique features such as 5R DVD and 15x CD recording speed using CAV technology. The system is able to produce any kind of standardized pre-recorded format of the CD and DVD disc family. It can be equipped with a special laser beam recorder (Dual Beam Recorder) to produce any recordable format such as CD-R and DVD+ / -R(W). A MSH network mastering system is available to ensure high level productivity.

With advanced technology like a blue solid state laser and writing strategy, the system provides a very high degree of writing accuracy and quality, as well as ease of use and low maintenance. The AM Master guarantees exceptional performance to meet the most stringent specifications.

The low degree of track pitch variation is based on a new mechanical platform.

The demand on stamper quality constantly increases. The AM Master is configured to accept 180 mm diameter glass disc substrates as this increases the process window in electroforming stage. The AM Master can also be configured to handle 160 mm glass disc diameters on request.

Thanks to its fast, flexible recording capabilities, the AM Master maximizes output potential. Just with one Laser Beam Recorder, switchable for CD and DVD mastering, the AM Master is able to handle any production mix, making it possible to fulfill orders for both CD and DVD in a cost-effective way.

For network mastering, the AM Master interfaces to the MSH (Mastering Super Highway) networking environment of SINGULUS MASTERING, offering job control, job entry, automatic scheduling and reporting. The MSH allows every system in the network to be used to full extend and provides optional links to CD and DVD authoring systems, logistical software and a database.





## MAIN FEATURES

- High speed recording - 5R DVD and 15x CD pre-recorded formats using CAV technology
- Optimized encoding (writing strategy)
- Factory configured either for 180 mm or 160 mm glass disc diameter
- Controlled developing process by means of first diffraction order measurement
- Network Mastering (MSH) - for highly efficient input and job control
- Factory configured with special LBR for recordable formats

# AM Master Specification

**Mastering Formats:** Standardized Pre-recorded CD and DVD formats. Optional all CD at 8x real time and DVD 3Reference recording speed or 5R DVD and 15x CD recording speed using CAV technology. Optional with Dual Beam Recorder: all CD-R(W) at max. 4x mastering speed and DVD-R(W) at maximum 1R mastering speed.

## Media Input system:

- Supported Media: Gigabit networking environment, (S)DLT tape drive, DVD-(R) input drive, CD-(R) input drive

## Optional:

- Copy Protection: CSS encryption  
Several copy protection schemes available

- Networking: Mastering Super Highway networking connection, Cytris downloading system, with two input drive of each (S)DLT tape / CD-ROM / DVD-ROM, networking storage with a variety of capacity

## General Details:

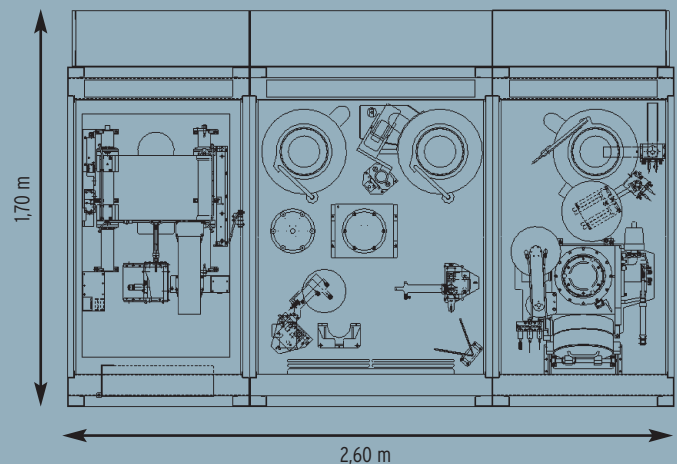
- Width: 1700 mm  
- Length: 2600 mm  
- Height: 1700 mm  
- Weight: 1750 kg  
- Room Conditions: Temperature 18 - 24 °C  
Humidity 40 - 70 % RH

## Laser Beam recorder:

- Type of Laser: Directly modulated Solid state laser diode (405 nm)  
- Expected Life Time: > 9000 hours

## Utility requirements:

- Electrical Supply: 230 / 400V 50 / 60 Hz  
- Power Consumption: ~ 3kVA  
- DI Water: ~ 61 l / h, based on 4 masters / hour  
- Argon Gas: ~ 4Nml / Master or 3.4Nml / min



### FRANCE

SINGULUS TECHNOLOGIES France  
Tel.: +33-47-58 6 09 54, Fax: +33-47-58 6 09 55  
e-mail: singulus@club-internet.fr

### GREAT BRITAIN

SINGULUS TECHNOLOGIES UK Ltd.  
Tel.: +44-17 93-78 42 00, Fax: +44-17 93-78 42 22  
e-mail: singulus\_uk@msn.com

### ITALY

SINGULUS TECHNOLOGIES Italia s.r.l.  
Tel.: +39-71-7 93 03 12, Fax: +39-71-7 93 08 21  
e-mail: singulus.italia@fastnet.it

### LATIN AMERICA

SINGULUS TECHNOLOGIES Ltda. Latin America  
Tel.: +55-11-36 43 01 13, Fax: +55-11-36 43 01 10  
e-mail: latinamerica@singulus.com.br

### SINGAPORE

SINGULUS TECHNOLOGIES Asia Pacific  
Tel.: +65-67 41 19 12, Fax: +65-67 41 12 13  
e-mail: singulus@singnet.com.sg

### HEADQUARTERS

Hanauer Landstrasse 103  
D - 63796 Kahl, Germany  
Tel.: +49 [0]61 88. 44 00  
Fax: +49 [0]61 88. 44 01 10  
e-mail: sales@singulus.de  
Internet: www.singulus.de

### SINGULUS MASTERING B.V.

Marinus v. Meelweg 2  
5657 EN Eindhoven, The Netherlands  
Tel.: +31 40 7501 400  
Fax: +31 40 7501 409  
e-mail: info@singulus.nl  
Internet: www.singulus.nl

### SPAIN

SINGULUS TECHNOLOGIES Iberica  
Tel.: +34-93-6 75 00 25, Fax: +34-93-5 90 64 26  
e-mail: singulus@singulusib.com

### TAIWAN

SINGULUS TECHNOLOGIES Taiwan Ltd.  
Tel.: +886-2-87 51 20 15, Fax: +886-2-87 51 20 16  
e-mail: tony@singulus.com.tw

### UNITED STATES AND CANADA

SINGULUS TECHNOLOGIES Inc.  
Tel.: +1-860-683 80 00, Fax: +1-860-683 80 10  
e-mail: sales@singulus.com

### US-WEST-COAST OFFICE

Tel.: +1-805-373 62 16, Fax: +1-805-371 74 33  
e-mail: sales@singulus.com

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