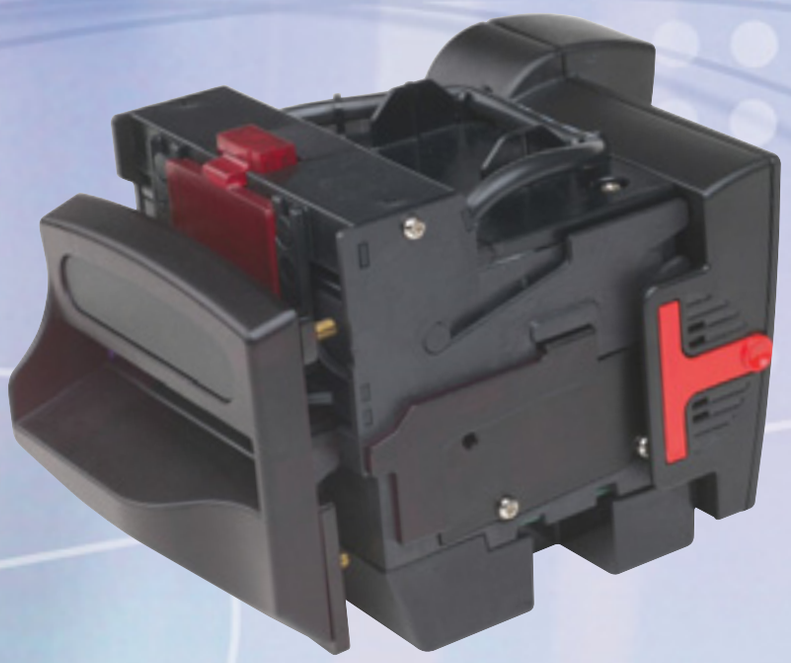
Lumina Rotor
note acceptor

Money Controls



Lumina rotor is a low-cost, fraud-resistant note acceptor system offering exceptional performance and a very high first-time acceptance rate of street-grade banknotes, with added active security for high risk, unmanned environments.

The **Lumina rotor** is a low-cost, compact, modular note acceptor system that offers high performance, high security and trouble-free note handling for a wide range of applications, including amusement, music, video and change machines. Based on world-proven Ardac technology, it is designed for acceptance of virtually all the world's note currencies, including the Euro, and can easily be updated by Flash memory download. With 64 individual note profiles Lumina rotor provides reliable discrimination of up to 16 banknotes in 4 directions.

During operation, each note is optically scanned to determine authenticity and denomination. Very high security is achieved through the use of left justification which enables precise readings to be made against tight tolerances. Used in conjunction with our ergonomically designed bezel, **Lumina rotor** offers very high first time accept rates. Individual notes may be inhibited from normal acceptance, giving operational flexibility and enhanced security when needed.

To protect against fraudulent activity, **Lumina rotor** incorporates an active anti-fishing device and is resistant to salt-water tampering. This provides the highest level of security in unmanned environments.

Lumina rotor provides ccTalk, standard / binary parallel and serial pulsed interfaces. The industry standard ccTalk serial interface makes it the most secure note acceptor available in its class today, with improved diagnostics and more detailed error and status reporting – a major benefit for network-managed machines.

Lumina rotor offers an escrow mode whereby an inserted note is pre-accepted and held in the 'escrow' position while the host machine is notified of the pending credit. The host machine can then make the decision to accept or return the note.

Key Benefits

- Low-cost, high-performance solution
- High security, high resistance to fraud
- Suitable for high risk, unmanned environments
- Truly global – accepts most of the world's note currencies
- Field update of note sets
- High performance level is self-maintaining
- Optimum in-service time
- Easy cleaning and maintenance.

Key Features – general

- Very high first-time acceptance rate of street-grade banknotes
- Active anti-fishing device
- Optical anti-stringing design
- Resistance to salt-water tampering
- High-speed acceptance, less than 2.5 seconds vend time
- Multiple, precision optical and security sensors
- Flash download of note sets and software updates
- ccTalk serial, standard/binary parallel and serial pulsed interfaces
- Automatic calibration of sensors for high performance
- Compact, modular system with easy access to note path for cleaning and maintenance.

Key Features – serial

- ccTalk serial interface, with encryption
- Higher level of security
- Comprehensive diagnostics and error & status reporting
- Detailed monitoring of product performance.

DATA SHEET

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Technical Data Summary

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Dimensions	Lumina Rotor
Height	99mm (3.96")
Width	105mm (4.20")
Depth	142mm (5.68")
Note Size	
Maximum Width	80mm (3.20")
Environmental	
Temperature Range: Operating	0°C to 55°C
Storage	-20°C to 70°C
Humidity Range:	Up to 95% RH non-condensing
Electrical Interface	
Voltage: Nominal	12Vdc
Minimum	10Vdc
Maximum	15.75Vdc
Current: Typical	400mA
Minimum (idle)	200mA
Maximum	2.0A
Operational Specification	
	16 notes x 4-ways, 64 profiles Automatic calibration of sensors to maintain performance Vend time less than 2.5 seconds Performance monitoring in non-volatile memory Individual bill/note inhibit using 8-position dip switch Diagnostics via ccTalk serial interface
Communications Interface	
	ccTalk serial (RS232-based) and standard/binary parallel and serial pulsed
Memory	
	128K x 8 (1Mb) program space
Security	
	Lumina rotor incorporates an active anti-fishing and an optical anti-stringing device to protect against fraudulent activity, such as pull-back manipulation, thus providing optimum security in high risk, unmanned environments. It is also resistant to saltwater tampering.

For full technical details please refer to the appropriate Technical Manual.
E-mail: technical.uk@moneycontrols.com

Optional Features

- **Choice of bezels – Nama, Letterbox or Standard.**

For further information please contact your nearest Money Controls office either by telephone, e-mail or fax. Alternatively, you can visit our website where you will find a wide range of information on our company and products:

www.moneycontrols.com

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