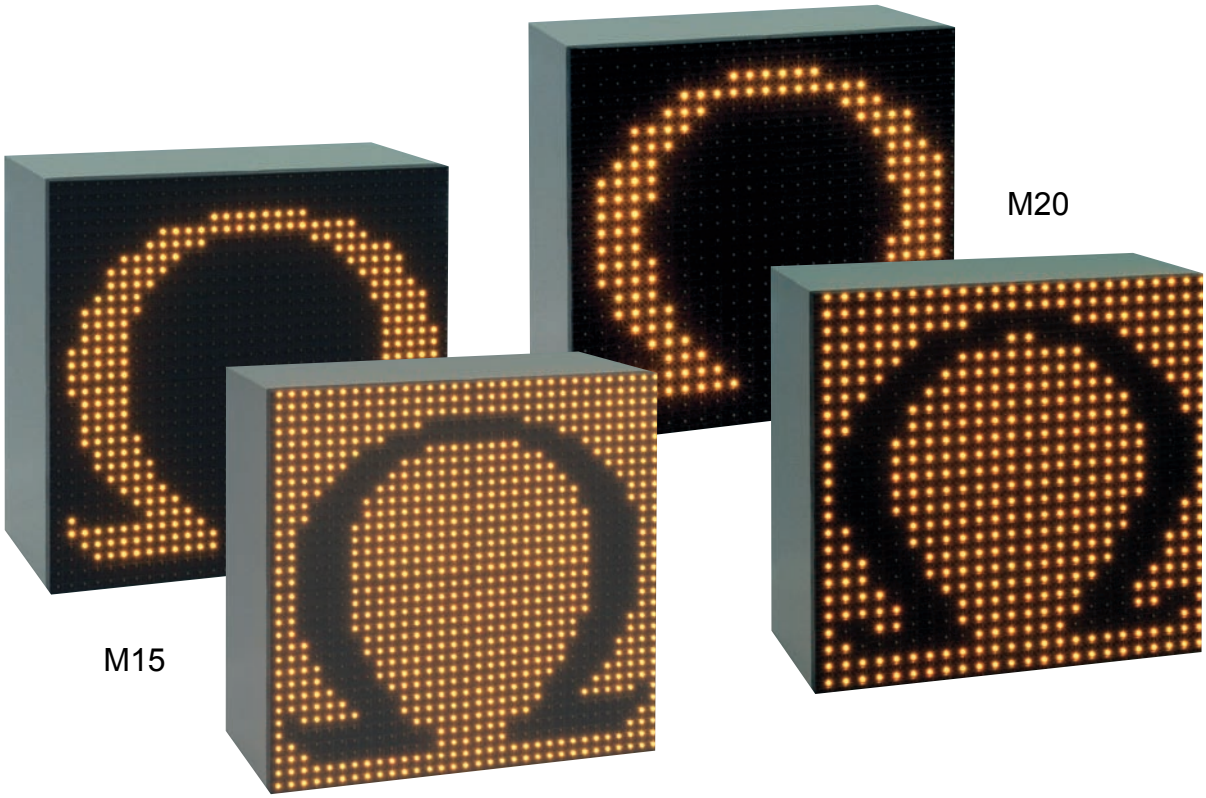
Sirius Monochrome display board



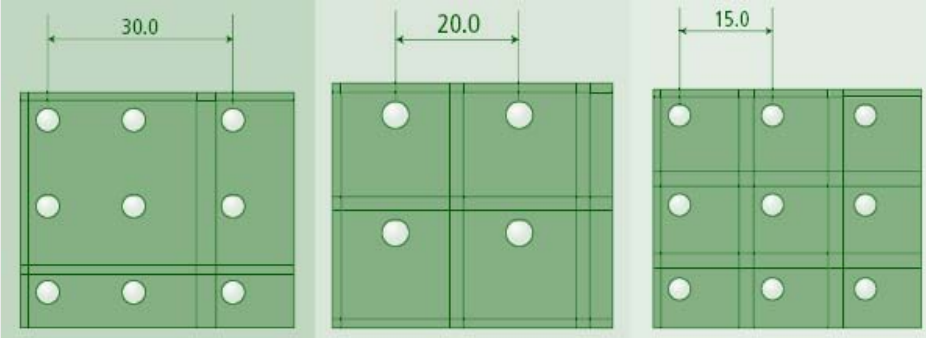
Module

The modules are built using steel frames. Each module is completely mounted and tested in the factory. Besides the pixel card, a module contains the power supply and the driver card used to address the pixels. 2 fans, mounted on the door, allow easy circulation of the air when no air-conditioning is installed.
Each module is only 18cm thick, which is much benefit in regard to the total weight of the front face. Once the modules are fixed on the front face, the connection from one module to the other is ensured thanks to a flat cable which transmits the information and a standard cable which supplies the power.
During maintenance, easy access is allowed from the back of the module.

Specifications

General characteristics		M30	M20	M15
Pixel, center-to-center (real/virtual)	mm	30	20	10
Basic colour		Red or amber	Red or amber	Red or amber
Number of LED per pixel		4	1	1
Life expectancy (1/2 brightness period)	hours	75'000	70'000	70'000
Brightness	cd/m2	3'500	5'000	3'500
Contrast ratio measured at 10'000 NIT on white paper		20:1	15:1	20:1
Viewing angle	Horizontally / vertically	140 / 60	140 / 60	140 / 60
Modul design				
Number of pixels per module	pixel	768	1'728	3'072
Number of pixels horizontally	pixel	32	48	64
Number of pixel vertically	pixel	24	36	48
Housing		Steelpl.—grounded and powder covered		
Module size	mm	960 / 720 / 180	960 / 720 / 180	960 / 720 / 180
Weight	kg	40	40	40
Maximum power consumption	W	300	252	444
Front / Rear face protection	IP	65 / 54	65 / 54	65 / 54
Operating temperature	C°	65 / 54	65 / 54	65 / 54

Pixel configuration

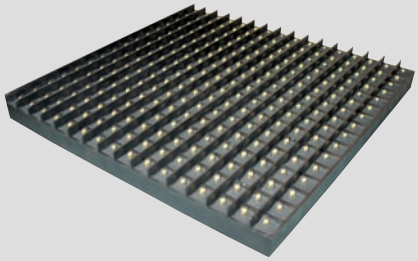


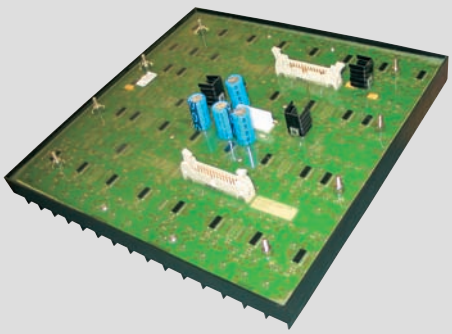
Key features

- Excellent brightness with enhanced contrast
- Low power consumption
- Long life expectancy
- Wide horizontal viewing angle
- Fully integrated with Swiss Timing timekeeping systems
- Dedicated sport software packages
- Maintenance service program
- Genuine spare parts availability

Outdoor

Indoor





Pixel card

The LED's are mounted on SMD circuit boards called pixel cards. Build around a plastic frame, the pixel card benefits from louvers whose dimensions and position has been exactly computed to reach the best compromise between vertical viewing angle and sunlight protection. The plastic frame is filled, from the front face side, with polyurethane dark black powdered.
Thanks to those features, we can proudly claim a black front face measured under 100 cm/m2 in standard day conditions.
The back side of the pixel card is also generously filled with silicon, absorbing all the electronic elements and protecting them against all possible corrosions caused by humid and corrosive environments.

Images, transmission and software

The data is transferred in bulk from the control room to the display thought optical fibers. Those fibers are connected to the central unit; this one operates as a multifunction device
equipped with the digitizer for image processing and with all the peripherals to connect to external peripherals. The digitizer decodes the standard video signals (Y/C and FBAS).
An additional processor manages the Galactica software interface, which guaranties the full integration of your timing system.
This is a tremendous advantage to ensure full compatibility of your global installation.

SWISS TIMING

Swiss Timing LTD
PO Box 138, 2606 Corgémont / BE, Switzerland
Phone +41 32 488 36 11 Fax +41 32 488 36 09
info@swisstiming.com www.swisstiming.com

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