

FOOTBALL SCOREBOARDS

A guide to scoreboard selection and installation



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Football West Limited in consultation with Football NSW Limited has produced this Scoreboards Guide to provide general guidance to clubs, associations and zones in Western Australia to assist them with the selection, construction and maintenance of scoreboards. The contents of this Guide should not be used for any other purpose or reproduced or communicated without our consent. The information contained in this Guide has been sourced from a third party Southern Cross Scoreboards, Football West makes no representation or warranty about the accuracy or completeness of the information contained in this Guide. You should not rely solely on the information in this Guide and should make independent inquiries, including seeking professional advice. To the extent permitted by law, Football West disclaims any responsibility and liability for any cost, expense, loss or damage incurred by any entity or person relying on the information contained in this Guide.

Foreword

This guide is a comprehensive document to assist in selecting the best electronic scoreboard, that caters to requirements and needs of every individual or sporting association.

Electronic scoreboards increase the fairness and atmosphere surrounding gameplay for both the spectators and the players, encouraging participation and a strong sporting community. A sporting association with the highest quality technology and facilities induces community involvement and pride from individuals.

Selecting the appropriate electronic scoreboard for the location and function of a sporting area is equally as important as sourcing the right company to do the job. The quality and specifications of a scoreboard must be tailored to individual needs of each sporting association so to avoid dissatisfaction with the finished product.



Key scoreboard terms

Electronic scoreboard: a large board used in a sports arena or the like, used to show the score of a contest and often other relevant facts and figures, driven electronically.

LED's: Light-emitting Diodes

Polycarbonate Plastic: a lightweight, high performance plastic that possesses a unique balance of toughness, dimensional stability, optical clarity, high heat resistance and electrical resistance.

Casing: the material that protects the LED displays from outside influences such as weather and damage.

Display: an electronic component for the presentation of data or image.

Powder-coating: to cover with polyester or epoxy powder, which is then heated to fuse into a protective layer.



Planning the purchase and installation of the product

Buying a quality, durable Electronic Scoreboard can be a simple rewarding task however there are several things that must be considered before installation.

A Scoreboard can be easily mounted on the side of a building or free standing in a customised frame of your design, however it is important to first consult an engineer and electrician to ensure your ideal location is suitable for functionality, safety and practicality.

It is important to consider the size of the display appropriate for the viewing area and size of the field. For the best visibility it is recommended to place the scoreboard opposite the spectators and with enough height from the ground to avoid damage.

Check List

- Decide which scoreboard is most suited to your facility and needs.
- Get a quote from an experienced provider. They will be able to aid you in the planning of the scoreboard structure and installation.
- If money is a challenge look into financial aid such as community support, or facility grants.

Key features of a scoreboard

When buying an electronic scoreboard there are many aspects to consider in order to have the best possible product for both buyer and spectator. Similarly it is important to ensure the materials used in the scoreboard are of the highest quality and durability.

Aluminium Casing

Using quality powder coated rust free aluminium materials to encase the electronic displays guarantees a sleek finish with protection of internal components from harsh weather conditions and vandalism. Aluminium is a lightweight material and provides an easily installable product saving time and money on the infrastructure needed to support the scoreboard at the venue.

Polycarbonate Windows

The advantage of heavy gauge polycarbonate windows on an electronic scoreboard especially when used in a sporting environment is the durability against the weather and strength of material for protection against impact of stray sporting equipment such as soccer balls. The polycarbonate windows can protect against vandalism whilst also ensuring clear visibility of the scoreboard display from all viewing angles.

Electronic Displays

Electronic displays are the most important component of any scoreboard therefore sourcing displays designed and built within Australia ensures construction knowledge as well as maintenance facilities accessible within the country for quick and reliable servicing of equipment. Each electronic display in a scoreboard has its own electronics which means if one digit display is faulty just that digit display can be sent back to the manufacturer for repair and does not require the whole scoreboard dismantled.

LED Components

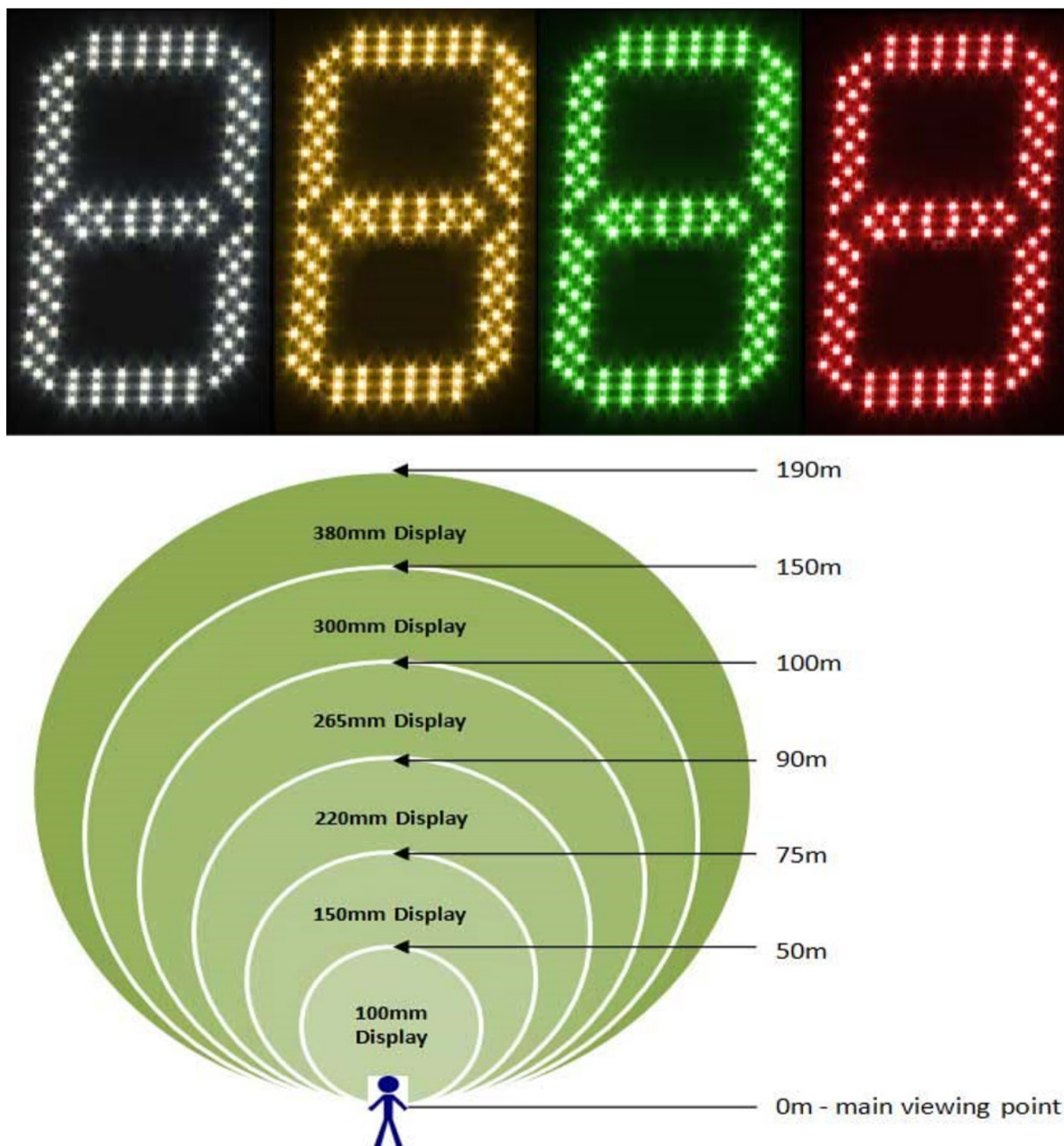
Buyers should opt to buy high quality displays and LED's to ensure vibrant visibility against the harsh Australian sun. The best quality LED components are from Nichia - Japanese made. Check with your manufacturer that they use Nichia LED components in their electronic displays. Quality LED's also ensure longevity of life of around 50,000 hours. A range of LED display colours are available from selected



distributors. For low visibility area green or white LED's are the recommended colour as they produce the highest visibility from a distance.

Scoreboard sizing

The size of a scoreboard is important for suitability and ease of viewing. For a football field the recommended display size is around 300mm however displays as big as 500mm are readily available. We recommend placing the scoreboard adjacent to the spectators and at eye level view from the grandstand. This can be achieved through customized mounts and support frames.



DISPLAY SPECIFICATIONS							
	100mm	150mm	220mm	265mm	300mm	300mm	380mm
	7-Segment	7-Segment	7x5 Matrix	7-Segment	7-Segment	7x5 Matrix	7-Segment
Height (mm)	105	158	235	270	310	310	380
Width (mm)	62	90	174	195	220	220	285
View Angle	>140°	>140°	>140°	>140°	>140°	>140°	>140°
LUMINOUS INTENSITY (BRIGHTNESS) MCD PER SEGMENT/ PIXEL (TYPICAL)							
RGB (Multi Colour)	N/A	N/A	8,730	34,920	52,380	17,460	61,110
Yellow	3,900	7,800	5,100	20,400	30,600	10,200	35,700
Red	3,900	7,800	5,100	20,400	30,600	10,200	35,700
Green	12,000	24,000	11,400	45,600	68,400	22,800	79,800
Blue	3,600	7,200	4,800	19,200	28,800	9,600	33,600
White	15,000	30,000	21,600	86,400	129,600	43,200	151,200
LED Life (approx)	>50,000Hrs	>50,000Hrs	>50,000Hrs	>50,000Hrs	>50,000Hrs	>50,000Hrs	>50,000Hrs
Microprocessor Controlled	Yes	Yes	Yes	Yes	Yes	Yes	Yes

Wireless control

All state of the art Electronic Scoreboards should be equipped with a wireless control, with a range of over 300m many equipped with waterproof cases.

Auxiliary Display

Each scoreboard has the ability to be tailored in design and programming to suit the sporting facility it will be used for. In addition to this buyers can purchase auxiliary displays featuring timers that can be placed closer to spectators for ease of viewing.

Other Accessories

- Sirens
- Option for home/away or electronic team names
- Club logo or additional sign-writing
- Window colour - other than black
- Spare controller

Customisation of Scoreboard layout

Electronic scoreboards are very customisable due to manufacturing facilities in Australia. Sporting associations can choose the accessories and layout of each individual scoreboard to what best suits them.

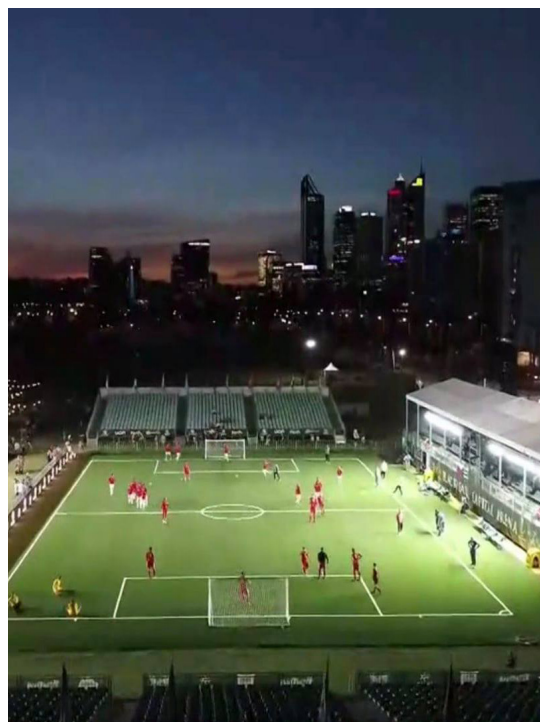


Electronic Team Names

Scoreboards with the exception of Stadiums used for the Skill Acquisition Program and Girl's Skill Acquisition Program, an elevated Scoreboard is required. The scoreboard must be visible from all areas of the Stadium. The scoreboard must indicate the names of both competing Teams. The words "home" and "visitors" will not be acceptable.

Check with your supplier that they can supply electronic teams names that can be visible across the venue. Electronic Team names at 150mm and larger should be acceptable if the scoreboard is directly across the field from the main attendance. However, if the scoreboard is to be positioned to the corner or far end it may be required to move to a 220mm or larger team name display.

Typing in electronic team names before every game can be time consuming. Check with your supplier that the scoreboard can preload and remember team names. This will enable venue staff to easily scroll through the loaded teams before each game saving time.



The operation and maintenance of the scoreboard

Multi-use scoreboards are a great addition for sporting association and are customisable to the sports and functions that you require, enabling an indoor sporting centre to be used for multiply functions.

All correctly sourced scoreboards should come equipped with an easy to use system and wireless remote. Electronic scoreboards are easy to maintain when built with quality materials to protect them from vandalism, damage and harsh weather conditions.

Check the scoreboards are self-sufficient with high quality waterproof casing therefore the only maintenance that is required is changing the battery in the wireless remote and cleaning the polycarbonate window occasionally to ensure optimal visibility and durability.

Environmental sustainability design

LED's are extremely energy efficient and long lasting at around 50,000 hrs, reducing cost and waste for sporting associations. Further aluminium is a highly recyclable product effectively producing less waste and less emissions from production. Sourcing companies and materials that are manufactured in Australia not only ensure quality of production and finished product but also ensures the expected national standard of environmental sustainability and reduction of waste.



Key Australian Contacts

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To provide Clubs and Associations with opportunities to obtain further information and advice on the matters addressed in this Guide, Football West has identified the above suggested contacts. These are, however, suggested contacts based on that they are either a FIFA Preferred Producer or FIFA Licensee or an Agent of one of these. Inclusion in this Guide should not be taken to suggest that Football West endorses or recommends any specific supplier.

Other guides in this series

Building Development

Drainage & Irrigation

Field Markings & Equipment

Football Lighting

Grass Field Maintenance

Project Management

Provider Procurement & Management



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