



598 Patterson Blvd., Pleasant Hill, Ca USA
 Tel: 800-660-4414 Fax: 925-939-9998 E-mail: info@sunriseled.us

Specification for FC 213

Issued on: 4-Jan-08

Revised on: 10-Oct-08

1. Specs

Technical Terms		Details
Module	Pixel Composition(LED)	1 Red, 1 pGreen, 1 Blue
	Pixel Pitch	16mm
	Size	240 x 240mm
	Dot array	16 x 16
	Color	Full Color
	Brightness(NIT)	3,500NITs
	Watt.(Max/Ave.)	20/ 10Watt
Controller/Driver	Driver type	1/8 duty
	Flash Memory	SAMSUNG 16M NAND Flash Memory
	CPU	Samsung S3C44BOX
LED	Grade	Super Intensity
	LED Type	Oval shape (4.0 x 5.0mm)
	Viewing angle	70deg.(Hori.) / 30deg.(Ver.)
	Luminous Intensity	Red:1800mcd pGreen:4000mcd Blue:3000mcd
	Qty/module	768pcs
Set	Module qty/set	3pcs
	Module array	1line x 3columns
	Display size(mm)	28.5 x 9.5in (723.9 x 241.3mm)
	Total size(case/mm)	31 x 12in (787.4 x 304.8mm)
	Display Weight	8 lbs.
	Input currency	AC 88 ~ 264VAC
	Input Hz	45Hz ~ 65Hz
	Output Voltage	5V
	Watt.(Max/Ave.)	120/60watt
	Viewing Distance	6~150m / 19~492ft
	Operating Temp.	-20°C ~ 50°C / -4 ~ 122 F
	Operation	Infrared remote control
	Casing	70mm Aluminum case with Hard Plastic corners

2. Features:

- 1.Animation & Special effects are available
- 2.Designed for indoor *semi-outdoor

* LED display can be used outdoor while under a canopy, over hang, awning or any other protective covering.



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1. Specs

Technical Terms		Details
Module	Pixel Composition(LED)	1 Red, 1 pGreen, 1 Blue
	Pixel Pitch	16mm
	Size	240 x 240mm
	Dot array	16 x 16
	Color	Full Color
	Brightness(NIT)	3,500NITs
	Watt.(Max/Ave.)	20/ 10Watt
Controller/ Driver	Driver type	1/8 duty
	Flash Memory	SAMSUNG 16M NAND Flash Memory
	CPU	Samsung S3C44BOX
LED	Grade	Super Intensity
	LED Type	Oval shape (4.0 x 5.0mm)
	Viewing angle	70deg.(Hori.) / 30deg.(Ver.)
	Luminous Intensity	Red:1800mcd pGreen:4000mcd Blue:3000mcd
	Qty/module	768pcs
Set	Module qty/set	4pcs
	Module array	1line x 4columns
	Display size(mm)	39.5 x 9.5in (1003.3 x 241.3mm)
	Total size(case/mm)	41 x 12in (1041.4 x 304.8mm)
	Display Weight	10 lbs.
	Input currency	AC 88 ~ 264VAC
	Input Hz	45Hz ~ 65Hz
	Output Voltage	5V
	Watt.(Max/Ave.)	120/60watt
	Viewing Distance	6~150m / 19~492ft
	Operating Temp.	-20°C ~ 50°C / -4 ~ 122 F
	Operation	Infrared remote control
	Casing	70mm Aluminum case with Hard Plastic corners

2. Features:

- 1.Animation & Special effects are available
- 2.Designed for indoor *semi-outdoor

* LED display can be used outdoor while under a canopy, over hang, awning or any other protective covering.

Specification for FC 215

Issued on: 4-Jan-08

Revised on: 10-Oct-08

1. Specs

Technical Terms		Details
Module	Pixel Composition(LED)	1 Red, 1 pGreen, 1 Blue
	Pixel Pitch	16mm
	Size	240 x 240mm
	Dot array	16 x 16
	Color	Full Color
	Brightness(NIT)	3,500NITs
	Watt.(Max/Ave.)	20/ 10Watt
Controller/Driver	Driver type	1/8 duty
	Flash Memory	SAMSUNG 16M NAND Flash Memory
	CPU	Samsung S3C44BOX
LED	Grade	Super Intensity
	LED Type	Oval shape (4.0 x 5.0mm)
	Viewing angle	70deg.(Hori.) / 30deg.(Ver.)
	Luminous Intensity	Red:1800mcd pGreen:4000mcd Blue:3000mcd
	Qty/module	768pcs
Set	Module qty/set	5pcs
	Module array	1line x 5columns
	Display size(mm)	48 x 9.5in (1219.2 x 241.3mm)
	Total size(case/mm)	50.5 x 12n (1282.7 x 304.8mm)
	Display Weight	13 lbs.
	Input currency	AC 88 ~ 264VAC
	Input Hz	45Hz ~ 65Hz
	Output Voltage	5V
	Watt.(Max/Ave.)	120/60watt
	Viewing Distance	6~150m / 19~492ft
	Operating Temp.	-20°C ~ 50°C / -4 ~ 122 F
	Operation	Infrared remote control / SunNet software
	Casing	70mm Aluminum case with Hard Plastic corners

2. Features:

- 1.Animation & Special effects are available
- 2.Designed for indoor *semi-outdoor

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Specification for FC 216

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1. Specs

Technical Terms		Details
Module	Pixel Composition(LED)	1 Red, 1 pGreen, 1 Blue
	Pixel Pitch	16mm
	Size	240 x 240mm
	Dot array	16 x 16
	Color	Full Color
	Brightness(NIT)	3,500NITs
	Watt.(Max/Ave.)	20/ 10Watt
Controller/Driver	Driver type	1/8 duty
	Flash Memory	SAMSUNG 16M NAND Flash Memory
	CPU	Samsung S3C44BOX
LED	Grade	Super Intensity
	LED Type	Oval shape (4.0 x 5.0mm)
	Viewing angle	70deg.(Hori.) / 30deg.(Ver.)
	Luminous Intensity	Red:1800mcd pGreen:4000mcd Blue:3000mcd
	Qty/module	768pcs
Set	Module qty/set	6pcs
	Module array	1line x 6columns
	Display size(mm)	57.5 x 9.5in (1460.5 x 241.3mm)
	Total size(case/mm)	60 x 12in (1524 x 304.8mm)
	Display Weight	16 lbs.
	Input currency	AC 88 ~ 264VAC
	Input Hz	45Hz ~ 65Hz
	Output Voltage	5V
	Watt.(Max/Ave.)	120/60watt
	Viewing Distance	6~150m / 19~492ft
	Operating Temp.	-20°C ~ 50°C / -4 ~ 122 F
	Operation	Infrared remote control / SunNet software
	Casing	70mm Aluminum case with Hard Plastic corners

2. Features:

- 1.Animation & Special effects are available
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1. Specs

Technical Terms		Details
Module	Pixel Composition(LED)	1 Red, 1 pGreen, 1 Blue
	Pixel Pitch	16mm
	Size	240 x 240mm
	Dot array	16 x 16
	Color	Full Color
	Brightness(NIT)	3,500NITs
	Watt.(Max/Ave.)	20/ 10Watt
Controller/Driver	Driver type	1/8 duty
	Flash Memory	SAMSUNG 16M NAND Flash Memory
	CPU	Samsung S3C44BOX
LED	Grade	Super Intensity
	LED Type	Oval shape (4.0 x 5.0mm)
	Viewing angle	70deg.(Hori.) / 30deg.(Ver.)
	Luminous Intensity	Red:1800mcd pGreen:4000mcd Blue:3000mcd
	Qty/module	768pcs
Set	Module qty/set	7pcs
	Module array	1line x 7columns
	Display size(mm)	67 x 9.5in (1701.8 x 241.3mm)
	Total size(case/mm)	69.5 x 12in (1765.3 x 304.8mm)
	Display Weight	19 lbs.
	Input currency	AC 88 ~ 264VAC
	Input Hz	45Hz ~ 65Hz
	Output Voltage	5V
	Watt.(Max/Ave.)	120/60watt
	Viewing Distance	6~150m / 19~492ft
	Operating Temp.	-20°C ~ 50°C / -4 ~ 122 F
	Operation	Infrared remote control / SunNet software
	Casing	70mm Aluminum case with Hard Plastic corners

2. Features:

- 1.Animation & Special effects are available
- 2.Designed for indoor *semi-outdoor

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Specification for FC 218

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1. Specs

Technical Terms		Details
Module	Pixel Composition(LED)	1 Red, 1 pGreen, 1 Blue
	Pixel Pitch	16mm
	Size	240 x 240mm
	Dot array	16 x 16
	Color	Full Color
	Brightness(NIT)	3,500NITs
	Watt.(Max/Ave.)	20/ 10Watt
Controller/Driver	Driver type	1/8 duty
	Flash Memory	SAMSUNG 16M NAND Flash Memory
	CPU	Samsung S3C44BOX
LED	Grade	Super Intensity
	LED Type	Oval shape (4.0 x 5.0mm)
	Viewing angle	70deg.(Hori.) / 30deg.(Ver.)
	Luminous Intensity	Red:1800mcd pGreen:4000mcd Blue:3000mcd
	Qty/module	768pcs
Set	Module qty/set	8pcs
	Module array	1line x 8columns
	Display size(mm)	76.5 x 9.5in (1943.1 x 241.3mm)
	Total size(case/mm)	79 x 12in (2006.6 x 304.8mm)
	Display Weight	21 lbs.
	Input currency	AC 88 ~ 264VAC
	Input Hz	45Hz ~ 65Hz
	Output Voltage	5V
	Watt.(Max/Ave.)	120/60watt
	Viewing Distance	6~150m / 19~492ft
	Operating Temp.	-20°C ~ 50°C / -4 ~ 122 F
	Operation	Infrared remote control / SunNet software
	Casing	70mm Aluminum case with Hard Plastic corners

2. Features:

- 1.Animation & Special effects are available
- 2.Designed for indoor *semi-outdoor

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Specification for FC 224

Issued on: 4-Jan-08

Revised on: 10-Oct-08

1. Specs

Technical Terms		Details
Module	Pixel Composition(LED)	1 Red, 1 pGreen, 1 Blue
	Pixel Pitch	16mm
	Size	240 x 240mm
	Dot array	16 x 16
	Color	Full Color
	Brightness(NIT)	3,500NITs
	Watt.(Max/Ave.)	20/ 10Watt
Controller/Driver	Driver type	1/8 duty
	Flash Memory	SAMSUNG 16M NAND Flash Memory
	CPU	Samsung S3C44BOX
LED	Grade	Super Intensity
	LED Type	Oval shape (4.0 x 5.0mm)
	Viewing angle	70deg.(Hori.) / 30deg.(Ver.)
	Luminous Intensity	Red:1800mcd pGreen:4000mcd Blue:3000mcd
	Qty/module	768pcs
Set	Module qty/set	8pcs
	Module array	2line x 4columns
	Display size(mm)	39.5 x 19in (1003.3 x 482.6mm)
	Total size(case/mm)	41 x 23in (1041.4 x 584.2mm)
	Display Weight	20 lbs.
	Input currency	AC 88 ~ 264VAC
	Input Hz	45Hz ~ 65Hz
	Output Voltage	5V
	Watt.(Max/Ave.)	120/60watt
	Viewing Distance	6~150m / 19~492ft
	Operating Temp.	-20°C ~ 50°C / -4 ~ 122 F
	Operation	Infrared remote control / SunNet software
	Casing	70mm Aluminum case with Hard Plastic corners

2. Features:

1.Animation & Special effects are available

2.Designed for indoor *semi-outdoor

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Specification for FC 225

Issued on: 4-Jan-08

Revised on: 10-Oct-08

1. Specs

Technical Terms		Details
Module	Pixel Composition(LED)	1 Red, 1 pGreen, 1 Blue
	Pixel Pitch	16mm
	Size	240 x 240mm
	Dot array	16 x 16
	Color	Full Color
	Brightness(NIT)	3,500NITs
	Watt.(Max/Ave.)	20/ 10Watt
Controller/Driver	Driver type	1/8 duty
	Flash Memory	SAMSUNG 16M NAND Flash Memory
	CPU	Samsung S3C44BOX
LED	Grade	Super Intensity
	LED Type	Oval shape (4.0 x 5.0mm)
	Viewing angle	70deg.(Hori.) / 30deg.(Ver.)
	Luminous Intensity	Red:1800mcd pGreen:4000mcd Blue:3000mcd
	Qty/module	768pcs
Set	Module qty/set	10pcs
	Module array	2line x 5columns
	Display size(mm)	48 x 19in (1219.2 x 482.6mm)
	Total size(case/mm)	50.5 x 23n (1282.7 x 584.2mm)
	Display Weight	26 lbs.
	Input currency	AC 88 ~ 264VAC
	Input Hz	45Hz ~ 65Hz
	Output Voltage	5V
	Watt.(Max/Ave.)	120/60watt
	Viewing Distance	6~150m / 19~492ft
	Operating Temp.	-20°C ~ 50°C / -4 ~ 122 F
	Operation	Infrared remote control / SunNet software
	Casing	70mm Aluminum case with Hard Plastic corners

2. Features:

- 1.Animation & Special effects are available
- 2.Designed for indoor *semi-outdoor

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Specification for FC 226

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1. Specs

Technical Terms		Details
Module	Pixel Composition(LED)	1 Red, 1 pGreen, 1 Blue
	Pixel Pitch	16mm
	Size	240 x 240mm
	Dot array	16 x 16
	Color	Full Color
	Brightness(NIT)	3,500NITs
	Watt.(Max/Ave.)	20/ 10Watt
Controller/Driver	Driver type	1/8 duty
	Flash Memory	SAMSUNG 16M NAND Flash Memory
	CPU	Samsung S3C44BOX
LED	Grade	Super Intensity
	LED Type	Oval shape (4.0 x 5.0mm)
	Viewing angle	70deg.(Hori.) / 30deg.(Ver.)
	Luminous Intensity	Red:1800mcd pGreen:4000mcd Blue:3000mcd
	Qty/module	768pcs
Set	Module qty/set	12pcs
	Module array	2line x 6columns
	Display size(mm)	57.5 x 19in (1460.5 x 482.6mm)
	Total size(case/mm)	60 x 23in (1524 x 584.2mm)
	Display Weight	32 lbs.
	Input currency	AC 88 ~ 264VAC
	Input Hz	45Hz ~ 65Hz
	Output Voltage	5V
	Watt.(Max/Ave.)	120/60watt
	Viewing Distance	6~150m / 19~492ft
	Operating Temp.	-20°C ~ 50°C / -4 ~ 122 F
	Operation	Infrared remote control / SunNet software
	Casing	70mm Aluminum case with Hard Plastic corners

2. Features:

- 1.Animation & Special effects are available
- 2.Designed for indoor *semi-outdoor

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Specification for FC 227

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1. Specs

Technical Terms		Details
Module	Pixel Composition(LED)	1 Red, 1 pGreen, 1 Blue
	Pixel Pitch	16mm
	Size	240 x 240mm
	Dot array	16 x 16
	Color	Full Color
	Brightness(NIT)	3,500NITs
	Watt.(Max/Ave.)	20/ 10Watt
Controller/Driver	Driver type	1/8 duty
	Flash Memory	SAMSUNG 16M NAND Flash Memory
	CPU	Samsung S3C44BOX
LED	Grade	Super Intensity
	LED Type	Oval shape (4.0 x 5.0mm)
	Viewing angle	70deg.(Hori.) / 30deg.(Ver.)
	Luminous Intensity	Red:1800mcd pGreen:4000mcd Blue:3000mcd
	Qty/module	768pcs
Set	Module qty/set	14pcs
	Module array	2line x 7columns
	Display size(mm)	67 x 19in (1701.8 x 482.6mm)
	Total size(case/mm)	69.5 x 23in (1765.3 x 584.2mm)
	Display Weight	38 lbs.
	Input currency	AC 88 ~ 264VAC
	Input Hz	45Hz ~ 65Hz
	Output Voltage	5V
	Watt.(Max/Ave.)	120/60watt
	Viewing Distance	6~150m / 19~492ft
	Operating Temp.	-20°C ~ 50°C / -4 ~ 122 F
	Operation	Infrared remote control / SunNet software
	Casing	70mm Aluminum case with Hard Plastic corners

2. Features:

- 1.Animation & Special effects are available
- 2.Designed for indoor *semi-outdoor

* LED display can be used outdoor while under a canopy, over hang, awning or any other protective covering.



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Specification for FC 228

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Revised on: 10-Oct-08

1. Specs

Technical Terms		Details
Module	Pixel Composition(LED)	1 Red, 1 pGreen, 1 Blue
	Pixel Pitch	16mm
	Size	240 x 240mm
	Dot array	16 x 16
	Color	Full Color
	Brightness(NIT)	3,500NITs
	Watt.(Max/Ave.)	20/ 10Watt
Controller/Driver	Driver type	1/8 duty
	Flash Memory	SAMSUNG 16M NAND Flash Memory
	CPU	Samsung S3C44BOX
LED	Grade	Super Intensity
	LED Type	Oval shape (4.0 x 5.0mm)
	Viewing angle	70deg.(Hori.) / 30deg.(Ver.)
	Luminous Intensity	Red:1800mcd pGreen:4000mcd Blue:3000mcd
	Qty/module	768pcs
Set	Module qty/set	16pcs
	Module array	2line x 8columns
	Display size(mm)	76.5 x 19in (1943.1 x 482.6mm)
	Total size(case/mm)	79 x 23in (2006.6 x 584.2mm)
	Display Weight	42 lbs.
	Input currency	AC 88 ~ 264VAC
	Input Hz	45Hz ~ 65Hz
	Output Voltage	5V
	Watt.(Max/Ave.)	120/60watt
	Viewing Distance	6~150m / 19~492ft
	Operating Temp.	-20°C ~ 50°C / -4 ~ 122 F
	Operation	Infrared remote control / SunNet software
	Casing	70mm Aluminum case with Hard Plastic corners

2. Features:

- 1.Animation & Special effects are available
- 2.Designed for indoor *semi-outdoor

* LED display can be used outdoor while under a canopy, over hang, awning or any other protective covering.