Individual light effects focused
to the point

CAPIX
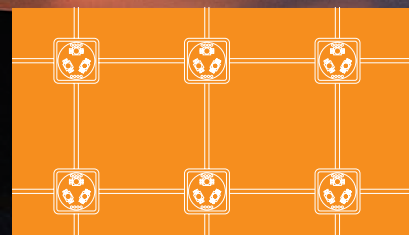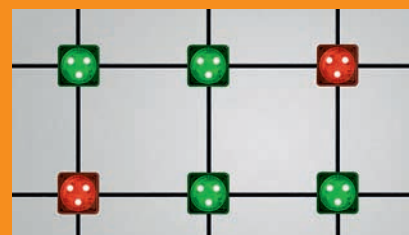
LEDON

CAPIX

PIXEL

Product specifications

Colour range	RGB
Light sources	3 x 3-in-1 RGB LEDs
Housing / materials	PMMA optics and PC housing
Standards	CE

Data specifications

Protocol	SPI protocol (48 bits per pixel)
Interface	Data in / out

Electrical specifications

Supply voltage	13.5V DC
Power consumption	per pixel: 1W, chain: max. 50W
Safety class	Class 3 (SELV)
Protection	Overcurrent (irreversible), overvoltage (reversible)

Environmental specifications

Temperature range	-30°C to +50°C
Protection rating	IP65
Shows	The self-test mode is immediately started as soon as the unit is switched on (only if connected to SCU); various shows only possible if connected to VCU

Segment Control Unit (SCU)

Product specifications

Housing / materials	Aluminium housing
Dimensions	Length x width x height: 600 x 310 x 110 mm
Standards	CE

Data specifications

|	
Protocol	SPI protocol (48 bits per pixel)
Interface	Data in / out
Max. controllable number of pixels	400 (50 pixels per channel)
Max. number of LED chains	8
Max. frame rate	30 fps

Electrical specifications

|	
Supply voltage	230V AC, 50 Hz: 4A
Power consumption	920 W, PF >= 0.95
Safety class	Class 1
Protection	Overcurrent (irreversible), overtemperature (reversible)
Max. power	400W (8 outputs, max. 50W per output)
Voltage	13.5V
Output current	Max. 3.7A per output
Connections	PG cable glands, socket for pixel chains, additional plug in the unit

Environmental specifications

Temperature range	-30°C to +50°C
Protection	IP65
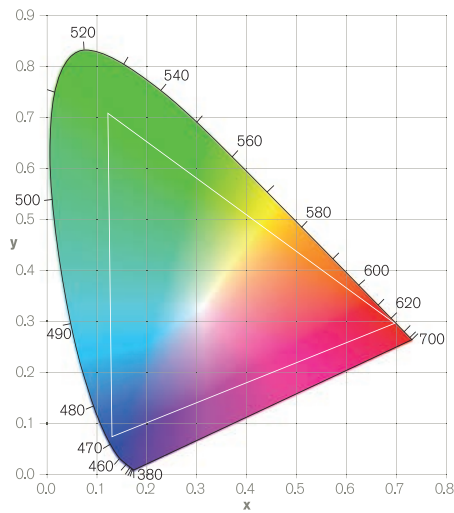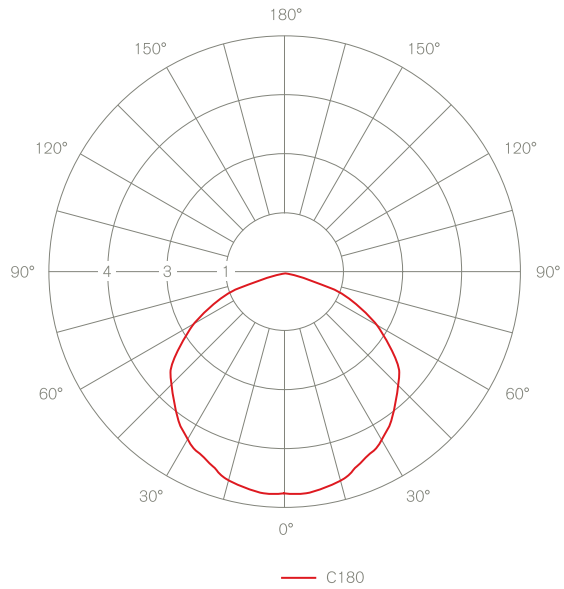
Video Control Unit (VCU)

Data specifications

Protocol	RS485 video protocol
Interface	Data in / out

Optical specifications

Light sources	3 x 3-in-1 RGB LEDs
Light distribution	Lambertian
Typical wavelengths	red: 632 nm
	green: 518 nm
	blue: 468 nm
Luminous flux:	RGB : 20 lm (100%)
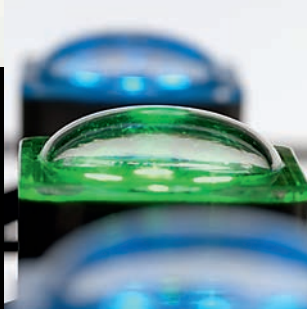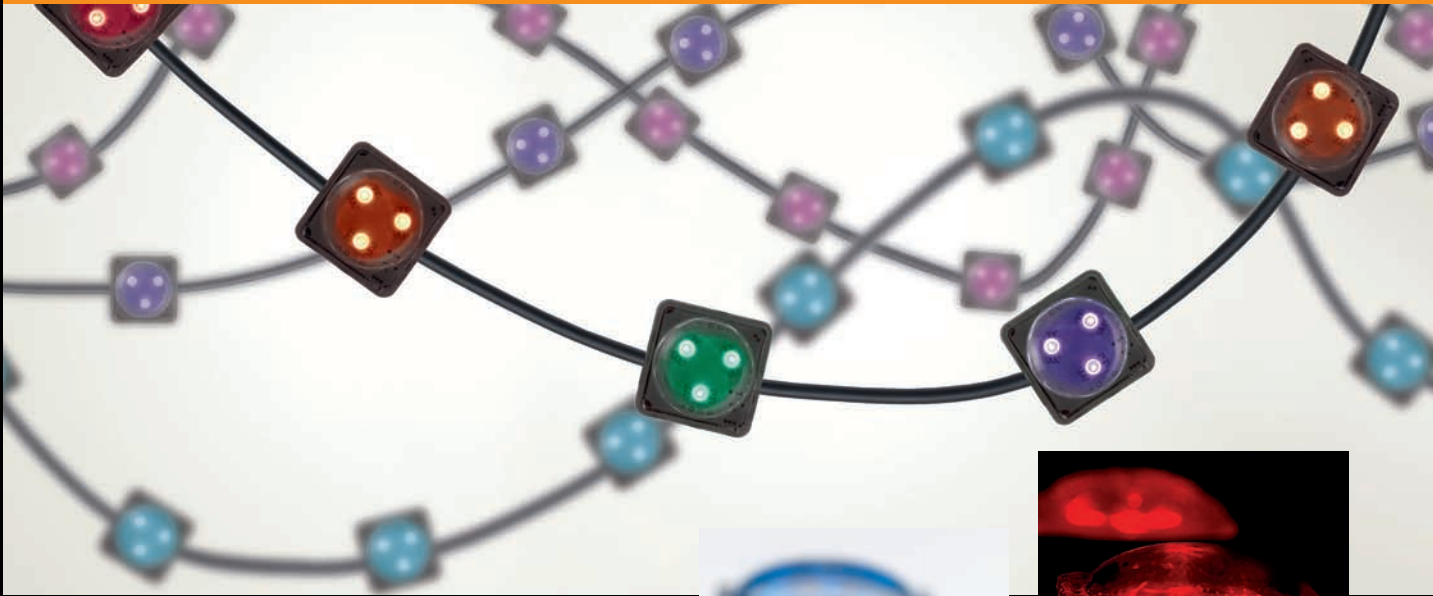
Compact RGB LEDs

Optimum design form
maximum viewing angle
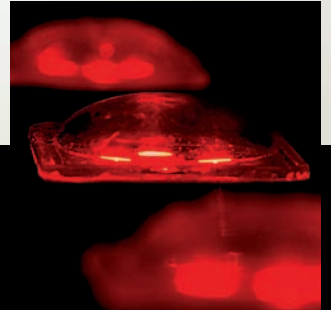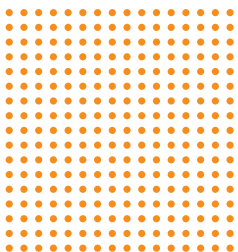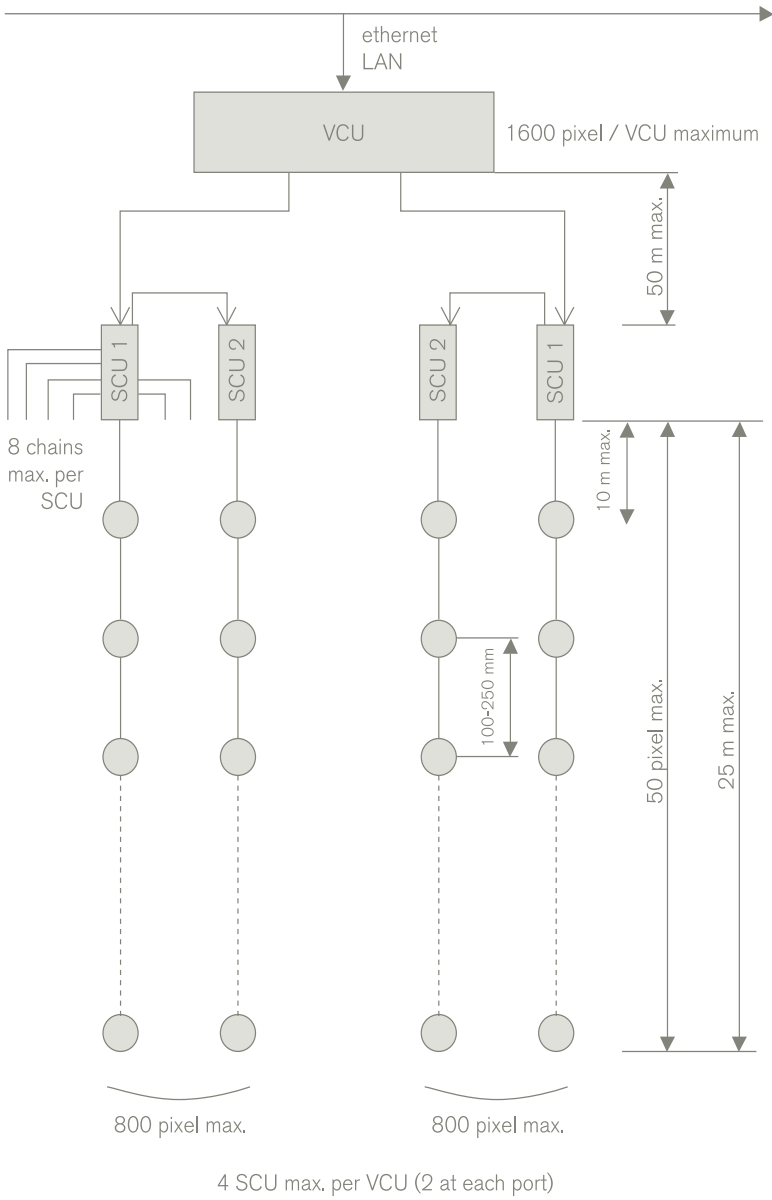
The LED matrix for impressive media lighting scenarios

These adaptable LED chains cling to buildings or objects like netting. CAPIX features three RGB LEDs and appears bright and brilliant over large distances. It consists of light points and combined data and power supply lines. The intelligent CAPIX control system not only produces colours and effects but also enables videos to be played. CAPIX is extremely versatile in terms of 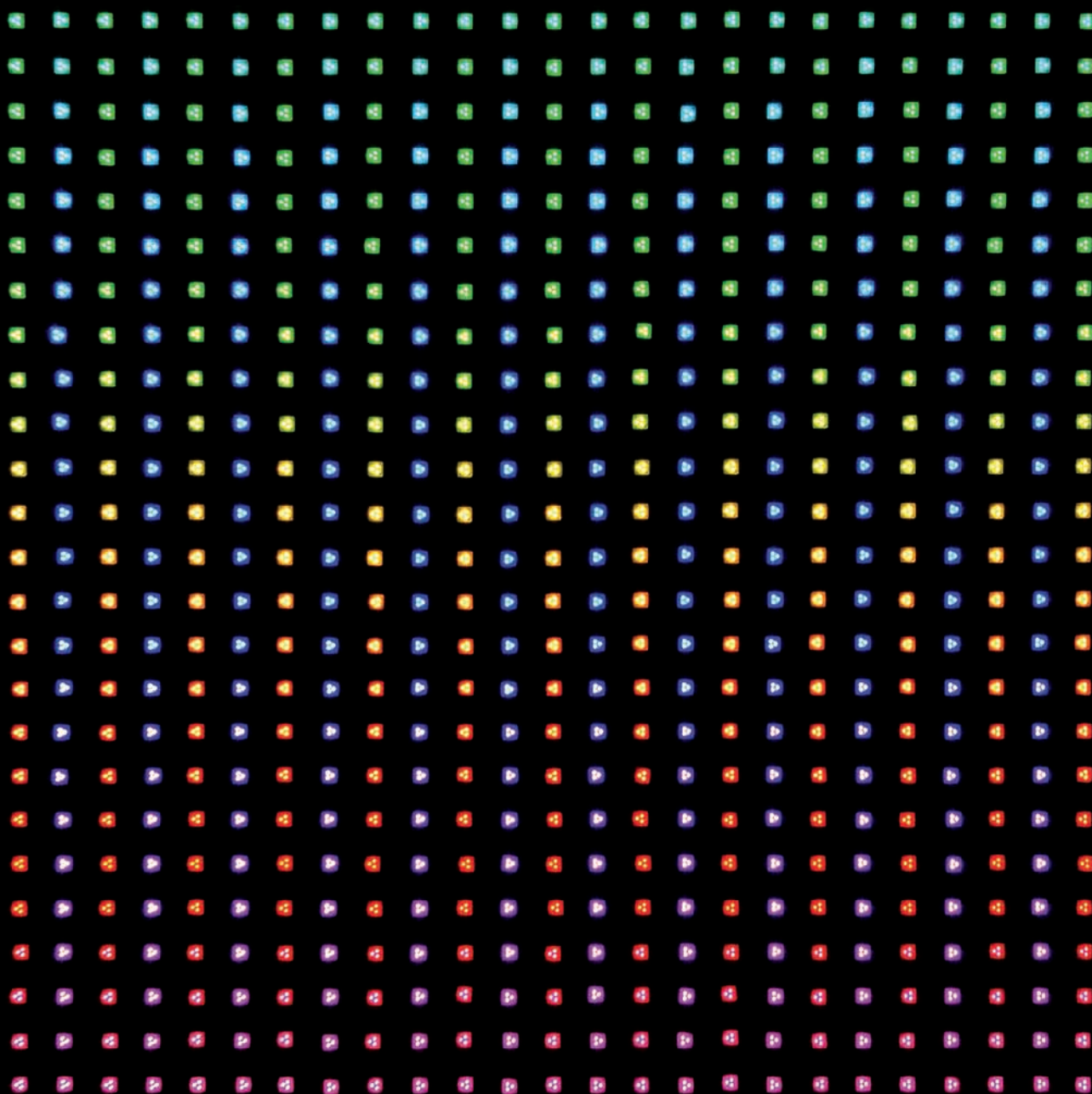its mounting It can be installed on surfaces in any arrangement to create media lighting effects. The LED chains can be fixed onto a flexible or rigid mesh to wrap over any surface or object like a second skin. A special feature of CAPIX is that the spacing between the individual light points and therefore the resolution of the media surface can be tailored to the viewing distance. This greatly extends the range of possible applications.

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ethernet
LAN

VCU

1600 pixel / VCU maximum

50 m max.

SCU 1

SCU 2

SCU 2

SCU 1

8 chains
max. per
SCU

10 m max.

100-250 mm

50 pixel max.

25 m max.

800 pixel max.

800 pixel max.

4 SCU max. per VCU (2 at each port)

For further information please contact Ledon.

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