



MILITARY RANGE

Product range brochure



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DISPLAYS FOR DEMANDING ENVIRONMENTS





HEAD MOUNT MILITARY DISPLAYS

The head mount series have been designed for military applications that require a compact VGA/SXGA compatible monitor with good view ability. It is constructed from painted aluminium, making it lightweight with good rigidity. With wide viewing angles and deep dimming capabilities, this series of monitors are ideal for the most demanding applications. The range has also been designed to comply with military standards for shock, vibration and EMC.

- > Rugged design for vehicle mounting
- > Non-glare glass protection screen, AR coated
- > High brightness & wide viewing angles
- > Deep dimming capability
- > Standard rear fixings
- > Suitable for control room, marine and vehicle environments

AVAILABLE SIZES WITHIN THE RANGE:

Size	Power Supply	Part Number
10.4"	18 - 36V DC	29LM103D31MP-M
12.1"	18 - 36V DC	29LM123D31MP-M
15"	90 - 260V AC	29LM153A31MP-M
15"	18 - 36V DC	29LM153D31MP-M
17"	90 - 260V AC	29LM173A31MP-M
17"	18 - 36V DC	29LM173D31MP-M
19"	90 - 260V AC	29LM1903A31MP-M
19"	18 - 36V DC	29LM1903D31MP-M
20.1"	90 - 260V AC	29LM203A31MP-M
20.1"	18 - 36V DC	29LM203D31MP-M
21.3"	90 - 260V AC	29LM213A31MP-M
21.3"	18 - 36V DC	29LM213D31MP-M
23.1"	90 - 260V AC	29LM233A31MP-M
23.1"	18 - 36V DC	29LM233D31MP-M



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FROM THE RANGE...

17" MULTISCAN LCD HEAD MONITOR

Part Number: 29LM173A31MP-M

TFT type: AM colour TFT

Max resolution: 1280 x 1024 SXGA

Active display area: 337.9 x 270.3mm

Response time: 10ms average, typical

Contrast ratio: 1000:1 typical @ CR \geq 10

Brightness: 280cd/m² typical

Viewing angles: 178° H, 178° V

Synchronisation range:

Horizontal scan: 15kHz (PAL) - 63.81kHz

Vertical scan: 56 - 60Hz

Signal inputs: PAL / NTSC, Data RGB

Power supply: 90 - 260V AC 50/60Hz
DC options available



Alongside standard displays, KME can design and manufacture custom designs to suit any requirement. We pride ourselves on being able to offer custom LCD solutions, whether it be size, shape, colour, integration or environment.

Speak to a sales representative +44 (0)1634 830123



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RACK MOUNT MILITARY DISPLAYS

The rack mount series have been designed for the military applications that require a compact VGA/SXGA compatible monitor with good view ability. The series has also been designed to comply with military standards for shock, vibration and EMC. It is constructed from painted aluminium, making it lightweight with good rigidity. With wide viewing angles and deep dimming capabilities, this series of monitors are ideal for the most demanding applications.

- > **Rugged rack mount design for vehicle mounting**
- > **High brightness & wide viewing angles**
- > **Non-glare glass protection screen, AR coated**
- > **Deep dimming capability**
- > **Standard rear fixings**
- > **Suitable for control room, marine and vehicle environments**

AVAILABLE SIZES WITHIN THE RANGE:

Size	Power Supply	Part Number
15"	90 - 260V AC	29LR153A35MP-M
15"	18 - 36V DC	29LR153D35MP-M
17"	90 - 260V AC	29LR173A35MP-M
17"	18 - 36V DC	29LR173D35MP-M
19"	90 - 260V AC	29LR193A35MP-M
19"	18 - 36V DC	29LR193D35MP-M
20"	90 - 260V AC	29LR203A31MP-M
20"	18 - 36V DC	29LR203D31MP-M
20" widescreen	90 - 260V AC	29LR203WA35MP-M
21.3"	90 - 260V AC	29LR213A35MP-M
21.3"	18 - 36V DC	29LR213D35MP-M
23.1"	90 - 260V AC	29LR233A35MP-M
23.1"	18 - 36V DC	29LR233D35MP-M



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KME also design and manufacture custom designs to suit any requirement. Call +44 (0)1634 830123 to discuss further.

FROM THE RANGE...

19" MULTISCAN LCD RACK MOUNT MONITOR **Part Number: 29LR193A35MP-M**

TFT type: AM colour TFT

Max resolution: 1280 x 1024 SXGA

Active display area: 376 x 301mm

Response time: 10ms average, typical

Contrast ratio: 1000:1 typical @ CR \geq 10

Brightness: 250cd/m² typical

Viewing angles: 178° H, 178° V

Synchronisation range:

Horizontal scan: 15kHz (PAL) - 63.81kHz

Vertical scan: 56 - 60Hz

Signal inputs: PAL / NTSC, Data RGB

Power supply: 90 - 260V AC 50/60Hz
DC options available



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PORTABLE/HANDHELD MILITARY MONITORS

Developed primarily for applications where operator view ability is at a premium, the compact, handheld design optimises operator viewing angles whilst demonstrating KME's latest transfective technology, allowing clear view ability in direct sunlight.

The rugged, metal construction of the monitor ensures exceptional stability, especially important when touchscreen operation is necessary. Designed to meet the stringent demands of shock and vibration the monitor is ideal for the more demanding military applications.



- > Rugged casing
- > Transflective / sunlight viewable
- > Metal cased for maximum durability
- > Low EMC
- > Resistive touchscreen

AVAILABLE SIZES WITHIN THE RANGE:

Size	Power Supply	Part Number
3.5"	18 - 36V DC	29LM0354DR32M-M
3.5"	18 - 36V DC	29LM0354DR32P-M
6.5"	18 - 36V DC	29LM064DR32M-M
6.5"	18 - 36V DC	29LM064DR32P-M

Custom designs available



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FROM THE RANGE...

3.5" RUGGED LCD TOUCHSCREEN MONITOR **Part Number: 29LM0354DR32P-M**

TFT type: AM colour TFT

Max resolution: 640 x 480 VGA

Active display area: 71.04 x 53.28

Brightness: 120cd/m² typical
(Transmissive, with allowance for EMC filter)

Viewing angles: 160° H, 160° V

Touchscreen: Resistive RS232 or USB

Signal inputs: PAL / NTSC

Power supply: 9 - 18V DC

Weight (approx): 300g



6.5" RUGGED LCD TOUCHSCREEN MONITOR **Part Number: 29LM064DR32M-M**

TFT type: AM colour TFT

Max resolution: 640 x 480 VGA

Active display area: 132.5 x 99.4 mm

Brightness: 250cd/m² typical
(Transmissive, with allowance for EMC filter)

Viewing angles: 178° H, 178° V

Touchscreen: Resistive RS232 or USB

Signal inputs: Data RGB

Power supply: 9 - 18V DC

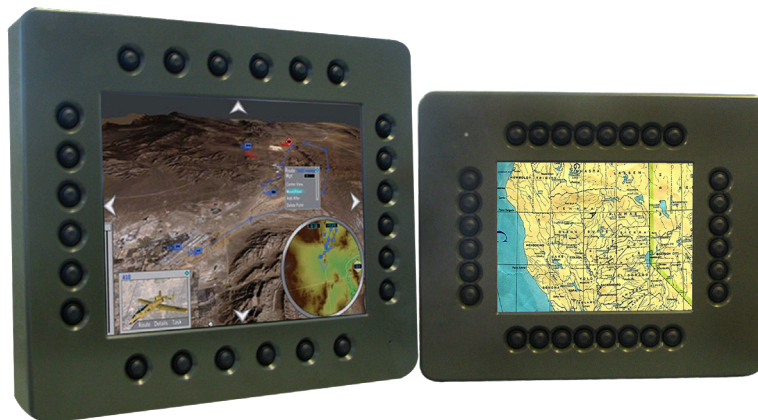
Weight (approx): 2kg



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VEHICLE MOUNTED MILITARY MONITORS



- > Helioview™ transfective panel for sunlight readability
- > XGA / SVGA / VGA compatible
- > Resistive touchscreen
- > Deep dimming for dark environment operation
- > Mounting using 6 x M5 bushes, 10mm depth
- > IP67 sealed
- > Multiple user - assignable buttons: RS422
- > Colour: BS381/285 Nato Green
smooth eggshell
- > Available in sizes 8.4", 10.4" & 12.1"

The 29LMV Series of LCD monitors have been designed to comply with military specifications to make it suitable for use within vehicles and areas where shock and vibration are key criteria.

The LCD monitor module is housed in a rugged, painted aluminium metal case and is mounted through rear fixing points. EMC considerations include the use of extensive shielding.

The DC monitor has been designed to accept a wide range of signal timings from VGA to XGA, and set-up controls for fine-tuning of the display are located at the rear of the monitor. Once set, no further adjustments should be required and the last setting is stored in memory.



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FROM THE RANGE...

8.4" LCD HEAD FOR USE IN VEHICLES

Part Number: 29LMV084DR32MPT

TFT type: A-Si TFT

Max resolution: 800 x 600 SVGA LVDS

Active display area: 170.4 x 127.8mm

Brightness: 650cd/m² typical

Viewing angles: 160° H , 140° V

Response Time: 12ms

Touchscreen: Resistive RS422

Contrast Ratio: 600:1 typical

Power supply: 18 - 36V DC

Weight (approx): 2kg



12.1" LCD HEAD FOR USE IN VEHICLES

Part Number: 29LMV124DR32MPT

TFT type: A-Si TFT

Max resolution: 1024 x 768 XGA LVDS

Active display area: 245.76 x 184.32mm

Brightness: 400cd/m² typical

Viewing angles: 140° H , 95° V

Touchscreen: Resistive RS422

Contrast Ratio: 600:1 typical

Power supply: 18 - 36V DC

Weight (approx): 6.5kg

AVAILABLE SIZES WITHIN THE RANGE:

Size	Power Supply	Part Number
8.4"	18 - 36V DC	29LMV084DR32MPT
10.4"	18 - 36V DC	29LMV104DR32MPT
12.1"	18 - 36V DC	29LMV124DR32MPT



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CUSTOM DESIGNED DISPLAYS

Alongside standard displays, KME can design and manufacture custom designs to suit any requirement. We pride ourselves on being able to offer custom LCD solutions, whether it be size, shape, colour, integration or environment.

Available custom features include:

- Colour, finish and format
- Display size range (from 3.5")
- A range of mounting options (including desktop, head and rack mount)
- Helioview™ technology to improve sunlight view ability
- Touchscreen, deep dimming and IP sealing
- Shock and vibration resistant
- AC or DC power models
- Dual inputs with A/B switching
- Slow scan models
- PAL/NTSC models
- High speed serial / data interfaces (270Mb/sec)
- Scan reversal / inversion
- LCD for CRT replacement that enables replacement of obsolete CRT displays with current LCD monitors
- Integrated PC
- Approved & approvable to marine and military international standards



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PREVIOUS CUSTOM DESIGNS INCLUDE...



LOW TEMPERATURE & LARGE FORMAT

This 46" display was built for use in temperatures as low as -40°C. With IP67 sealing it is suitable for outdoor use making it ideal for public information applications and digital signage in more extreme environments.

IP SEALED DISPLAYS

Manufactured as a dual core unit with sunshield, this 15" IP67 sealed monitor was built for use on the bridge wing of a military ship. The transfective display is protected by our Helioview™ technology which means it provides near perfect viewability in direct sunlight.



The use of high quality components, durable and robust casing, anti-reflective safety glass, transfective enhancements and touchscreen capability makes KME's monitors ideal for demanding military applications.

For more information on custom solutions call +44 (0)1634 830123 and speak to a member of our sales team.



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COMPANY PROFILE

ABOUT KME

Kent Modular Electronics (KME) design and manufacture industrial grade LCD-TFT monitors for the worldwide marine, military, industrial, rail and large format markets. Utilising a highly skilled workforce, KME provide marine and military approved standard displays and custom designs that are IP sealed for protection against the elements and strongly made to withstand shock and vibration.

Established in 1976, KME have been a leading monitor manufacturer for over 30 years. Originally specialising in CRT monitors, KME today offer an expanding range of LCD displays. All our products have International Safety and EMC approvals and Form, Fit and Function policies guarantee long term support and service.

CONTACT US

For more information please visit **www.kme.co.uk** or contact a member of our sales teams

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