

# RECEIVING SYSTEMS

DESIGNED FOR  
HARSH OPERATING  
ENVIRONMENTS



**MCE**  
LASERS

GSR Laser Tools

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Receiving systems from MCE Lasers allow you to maximise the time you spend productively in the cab. By guiding your machinery to an exquisite level of accuracy of depth or elevation, you will optimise machine time. This means greater efficiency, effectiveness and profitability for your business.

You can use MCE Lasers' rugged, highly flexible receiving systems on a wide range of machines. The receivers can be used either for visual display or in conjunction with a control panel for fully automatic blade control.

**FOR EARTHMOVING PROFESSIONALS**

**AUSTRALIAN MADE**

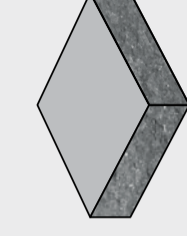
**BUILT FOR HARSH OPERATING CONDITIONS**

MCE Laser receivers are built with the backing of more than 30 years experience designing and manufacturing laser systems for the harsh Australian environment. Our systems are 100% manufactured in Australia and use the latest leading electronic components, providing a performance which is unmatched.

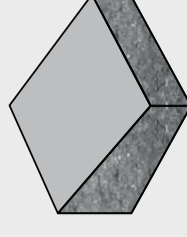
*"I bought my first MCE laser receiving system some 20 years ago and it hasn't stopped since. In my experience the system is excellent. Just switch it on and watch the blade automatically level to the correct grade every time. No overshooting, no lagging - perfect every time." says Anthony Briganti.*

#### **APPLICATIONS**

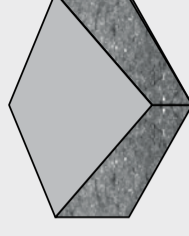
- Land levelling
- Road construction
- Agricultural site preparation
- Airfield construction



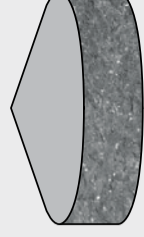
Level



Single Grade



Dual Grade



Cone



# LASER RECEIVERS

VISUAL GUIDANCE

# DISPLAY PANELS

VISUAL GUIDANCE

## LASERGUIDE MINI SERIES (R.45.BM)

- Visual receiver for all machine types
- Integrated magnetic clamp
- Fully waterproof
- Economically priced
- 120 mm receiver length
- Single D Cell battery operation



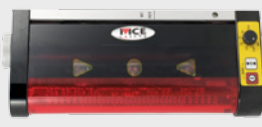
## LASERGUIDE MINI SERIES (R.45.TC)

- Visual receiver for all machine types
- Integrated magnetic clamp
- Tilt compensation
- Fully waterproof
- Economically priced
- 190 mm receiver length
- Long range of operation 500m
- Single D Cell battery operation



## LASERGUIDE MINI SERIES (R.45.TC PRO)

- Visual receiver for all machine types
- Integrated magnetic clamp
- Tilt compensation
- Fully waterproof
- Bluetooth / CAN connection
- 190 mm receiver length
- Remote in-cabin display via Bluetooth / CAN
- 4 x C cell battery operation
- Can be externally powered via 12 / 24 VDC



## LASERGUIDE (R.U.LS.B)

- True multi channel receiver
- 9 separate visual channels via LED display
- 200 mm receiver length
- Use standalone or with a Display panel
- Bluetooth / CAN connection
- Fully waterproof
- Internal batteries
- Available in different configurations



## LASERGUIDE (R.U.LS.MM.B)

- True multi channel receiver
- 9 separate visual channels via LED display
- 200 mm receiver length
- Use standalone or with a Display panel
- Bluetooth / CAN connection
- Internal batteries
- Tilt Compensation
- Fully waterproof
- Available in different configurations
- Plumb indication through (DB.UNI.PRO/MCE.R45APP)



## LASERGUIDE MAXI (R.5CH)

- True multi channel receiver
- Separate visual channels via LED display
- 500 mm receiver length
- Use standalone or with a Display panel
- Fully waterproof
- Available in different configurations

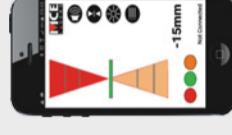


## LASERGUIDE MAXI (R.10CH)

- True multi channel receiver
- Separate visual channels via LED display
- 1000 mm receiver length
- Use standalone or with a Display panel
- Fully waterproof
- Available in different configurations

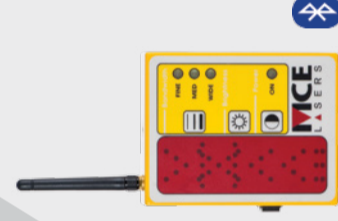


**DISPLAY PANELS** allow the operator to have visual control of the receiver when it is not in direct view. MCE lasers have a range of communication protocols including Bluetooth, radio and CAN



## ANDROID APP MCE.R45APP

- Brightness control
- Centre band accuracy selection
- In-cab display via Bluetooth
- Works with (R.45.TC PRO)



## DISPLAY PANEL DB.UNI.PRO

- Brightness control
- Centre band accuracy selection
- In-cab display via Bluetooth / CAN
- Push button switches
- Works with (R.45.TC PRO and R.U.LS.B)



## DISPLAY PANEL CB.5CHL & CB.10CHL

- Bright LED's
- Rugged design
- In-cab display via cable
- Works with (R5CH \$ R.10CH)
- Rugged design
- In-cab display via cable
- Works with (R5CH \$ R.10CH)



### LASERGUIDE (R.ULS.SERIES)

- True multi channel receiver
- 9 separate visual channels via LED display
- 200 mm receiver length
- Automatic blade control via control panel
- Fully waterproof
- Available in different configurations



### LASERGUIDE (R.GNSS)

- Multi constellation
- Simple setup
- Ideal for land levelling applications
- Automatic blade control via control panel
- Fully waterproof
- Available in different configurations
- Capable of constructing a flat, single or dual plane slope
- Fully configurable deadband, 0 set with mm precision via control panel



### LASERGUIDE (R.ULS.MM)

- True multi channel receiver
- 9 separate visual channels via LED display
- 250 mm receiver length
- Automatic blade control via control panel
- Fully waterproof
- Available in different configurations
- Millimetre accurate
- Fully configurable deadband, offset with mm precision via control panel



### LASERGUIDE (R.ULS.MM.1000)

- True multi channel receiver
- 9 separate visual channels via LED display
- Automatic blade control via control panel
- Fully waterproof
- Available in different configurations
- Millimetre accurate
- Fully configurable deadband, 0 set with mm precision via control panel
- 1000mm receiving range (other lengths also available)



### SPECIALISED SENSORS

#### SLOPE SENSOR (UG.000)

- Maintains any slope or level reference at all times 60% range
- Robust waterproof design



#### ULTRASONIC SENSOR (TR.002)

- Maintains reference from curb or string
- Robust waterproof design
- Large working range



### MOUNTING BRACKETS

- A.RAM.005 - RAM mount kit includes:
- A.RAM.001
- A.RAM.002
- A.RAM.003

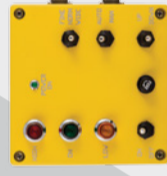


Various adaptor plates to suit control panels

**CONTROL PANELS** allow the operator to have full automatic blade control. The control panel integrates with all types of machine hydraulics. MCE Lasers range of control panels are built to suit every need to the finest possible accuracy.

### CONTROL PANEL CB.2001

- Suits bang bang valves
- 3 accuracy settings
- Economically priced
- Toggle switches
- Works with (R.ULS.S)



### CONTROL PANEL CB.D2

- Suits proportional or bang bang valves
- 3 accuracy settings
- Can be integrated with elevating mast
- Large, easy to read LCD display
- Die-cast aluminum casing
- Works with (R.ULS.CAN, R.ULS.P, R.ULS.MM, R.ULS.MM.1000, UG.000, TR.002 and R.GNSS sensors)



### CONTROL PANEL CB.2200

- Suits bang bang valves
- 3 accuracy settings
- Economically priced
- Toggle switches
- Works with (R.ULS.S)
- Can be integrated with elevating mast



### DUAL CONTROL PANEL CB.DU02

- Suits proportional or bang bang valves
- 3 accuracy settings
- Can be integrated with elevating mast
- Large, easy to read LCD display
- Machined aluminum casing
- Dual control panel works with
- Works with (R.ULS.CAN, R.ULS.P, R.ULS.MM, R.ULS.MM.1000, UG.000, TR.002 and R.GNSS sensors)



### DUAL CONTROL PANEL CB.2000

- Suits bang bang valves
- 3 accuracy settings
- Economically priced
- Toggle switches
- Dual control panel works with (R.ULS.S)



### CONTROL PANEL CB.EI

- Dedicated mast display panel
- Can be used with ME.12U



### CONTROL PANEL CB.EI.HD

- Dedicated mast display panel
- Can be used with ME.14



### JOYSTICKS

#### JOYSTICK A.RS.052

- Auto/man. Up/down control
- Can be used with all single control panels



#### JOYSTICK A.RS.082

- Auto/man. Up/down control, proportional
- Can be used CB.D2 and CB.DU02



### ELEVATION MASTS

An electric powered mast gives you smooth receiver movement. The mast allows the operator to accurately offset their working height, for example to cut out 100 mm of unwanted soil. Steel framed for strength, the mast is bolted directly to your scraper or earthmoving machine. MCE Lasers masts are long lasting and reliable. The mast can be controlled via the Elevation Indicator or via selected control panels.



ME.14

ME.12U

ME.15

ME.12U

ME.12U

ME.12U

ME.12U

ME.12U

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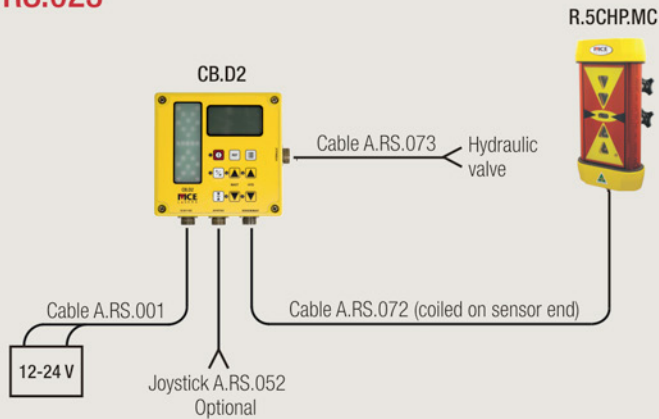
ME.12U

ME.12U

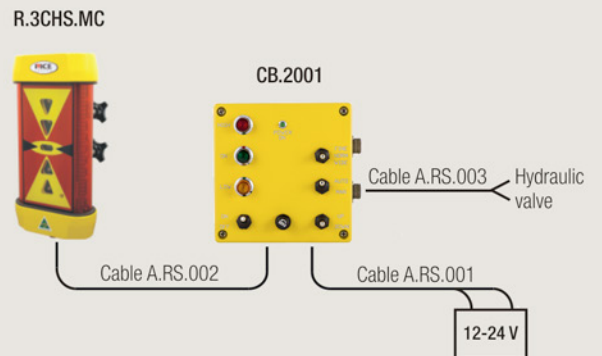
# SET-UP DIAGRAMS

Some common receiving systems are illustrated here

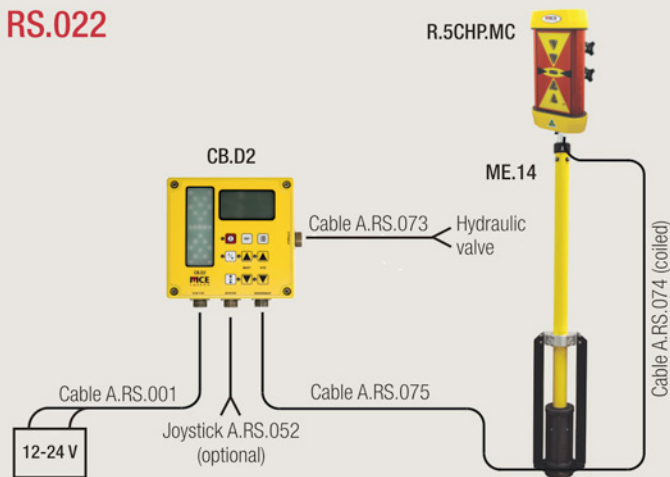
RS.023



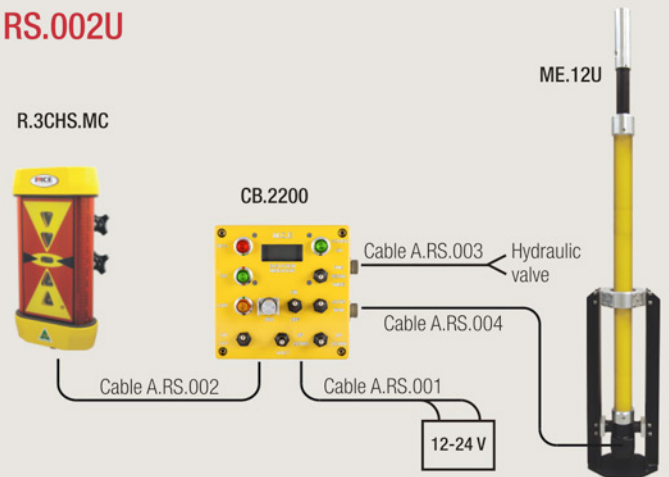
RS.007



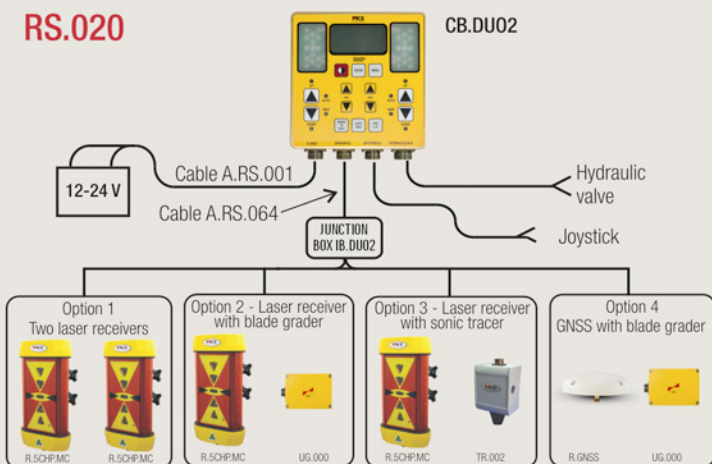
RS.022



RS.002U



RS.020



RS.009

