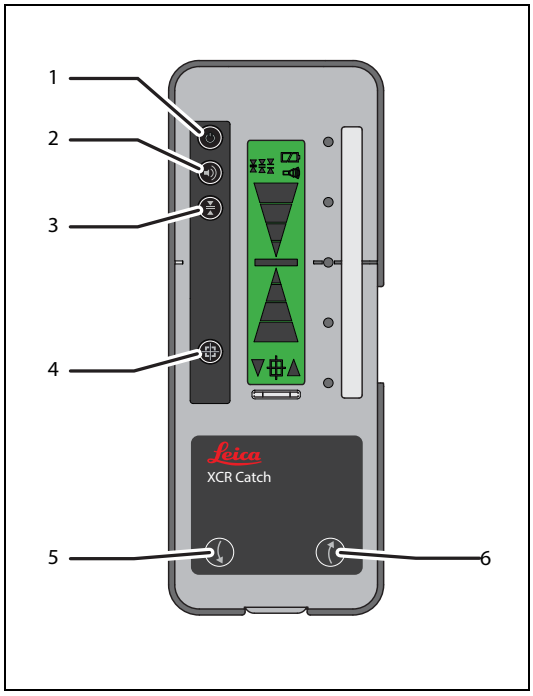
Leica XCR Catch

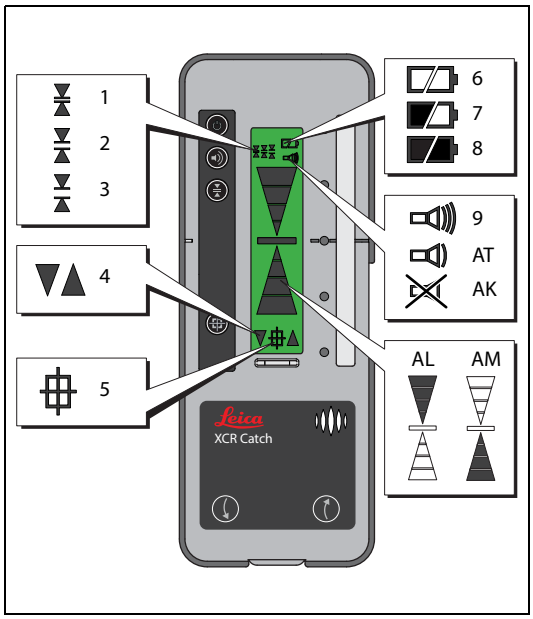
The Leica XCR Catch is a combined laser receiver and remote control for the Leica Lino ML180.

Keypad



① ON/OFF key
② Beeper key
③ Sensitivity key
④ **Auto alignment key - Press 2 sec**
⑤ Direction key down
⑥ Direction key up

Display status symbols



① Sensitivity: fine ±1 mm
② Sensitivity: medium ±3 mm (default)
③ Sensitivity: coarse ±5 mm
④ Remote arrows and direction keys
⑤ Alignment activated
⑥ Battery: empty
⑦ Battery status: medium
⑧ Battery status: full
⑨ Beep high
⑩ Beep low
⑪ Beep off
⑫ Move receiver down
⑬ Move receiver up

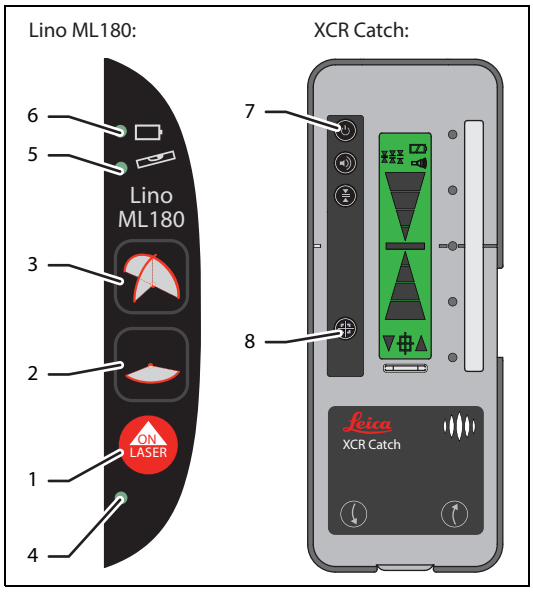
Pairing the Leica XCR Catch with the Leica ML180 Laser

The Leica XCR Catch remote/receiver works exclusively with the Leica Lino ML180 line laser. The receiver that is included in the package is already paired with the laser and only communicates with this specific laser. If you want to pair another Leica XCR Catch with your laser you will need to redo the pairing procedure as described below.

☞ When setting up the Leica Lino ML180 for radio pairing make sure that no other Leica XCR Catch is in operation in the area to avoid accidental pairing with this remote.

Pairing procedure:

1 Turn laser OFF ①.
2 Press and hold both buttons Horizontal MODE ② and Vertical MODE ③.
3 Turn laser ON ①.
4 Laser is in pairing mode (LED ④ ⑤ ⑥ blinking slowly in sequence).
5 Turn Receiver ON ⑦.
6 Press button Auto alignment ⑧ of receiver.
7 Pairing process is complete (LED ④ ⑤ ⑥ blinking rapidly in sequence for 20 sec).

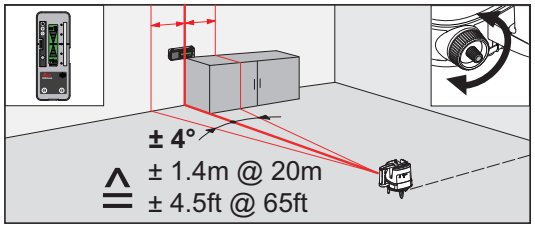


☞ If the laser is in pairing mode and does not receive the signal from the remote, it will turn off after 30 seconds.

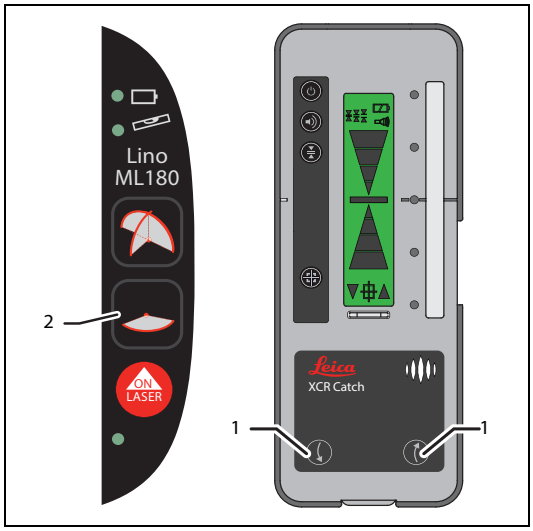
☞ The pairing procedure can be repeated anytime. A Leica Lino ML180 laser and the paired Leica XCR Catch remote will stay paired until they are actively paired with another device.

Leica XCR Catch alignment features

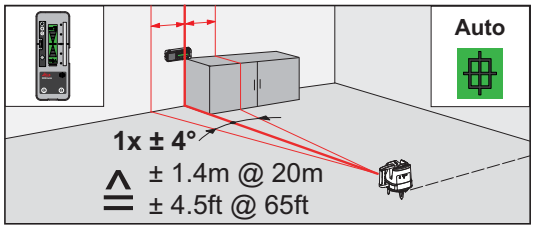
Manual alignment

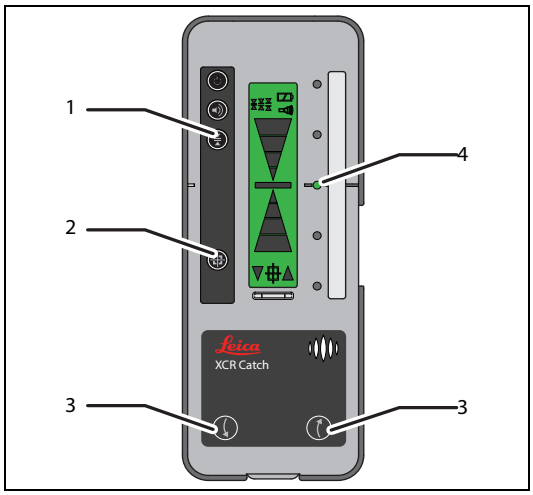


1 Set up the laser unit at the initial position.
2 Switch off the horizontal laserbeam with key ②.
3 Pre-align the laser (V line) within ± 4° of the desired final alignment position.
4 Remotely align the laser with the direction keys ①.



Automatic alignment (single mode)
In single alignment mode the Leica XCR Catch will automatically align the Leica Lino ML180 laser once and will then deactivate the alignment feature.





1 Set up the laser unit at the initial position.
2 Pre-align the laser (V line) within ± 4° of the desired final alignment position.
3 Select the sensitivity ① to be used during alignment. Adjustment features for beeper and sensitivity are deactivated during the automatic alignment process.
4 **Press auto alignment key ② for 2 sec. until 2 red LEDs blink.** Horizontal laserline will be shut off during automatic alignment.
5 Predefine a scan direction by pressing the direction keys ③ accordingly within the first 3 sec.

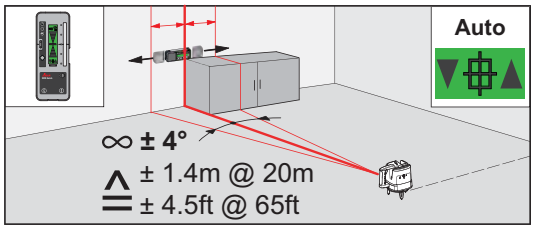
☞ If no direction is predefined the unit will start looking for the receiver in a predefined sequence (middle - left - right).

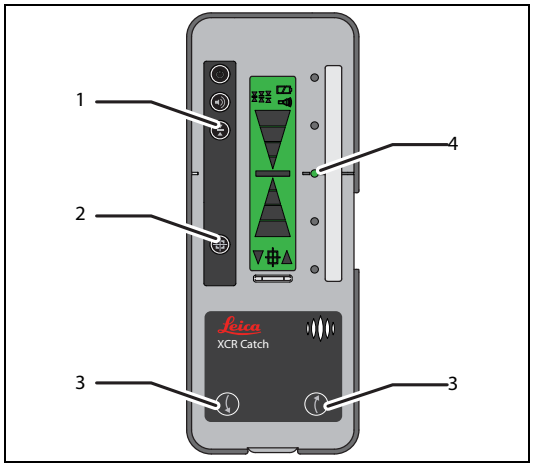
☞ To deactivate the auto alignment process press the alignment key ② or press the On/Off button.

6 The auto alignment process will move the laser unit until it is precisely aligned with the Leica XCR Catch receiver.
7 When the receiver detects the exact position it will sound a beep for 2 sec. and will display the lighted green LED ④ and the middle position. The auto alignment process will be terminated when middle position has been found.

☞ The receiver will deactivate the auto alignment if no laser signal is found or the signal is permanently lost within a time frame of 45 sec. The receiver will display all 5 LEDs blinking and will sound 3 short beeps. To reinitiate the receiver press any key.

Automatic alignment (continuous mode)
In continuous alignment mode the Leica XCR Catch will automatically align the Leica Lino ML180 laser and will then monitor and readjust the alignment continuously.





1 Repeat steps 1-3 from section "Automatic alignment (single mode)" on page 14.
2 Press auto alignment key ② and sensitivity key ① together for 2 sec. Horizontal laserline will be shut off during automatic alignment.
3 Predefine a scan direction by pressing the direction keys ③ accordingly within the first 3 sec.
☞ If no direction is predefined the unit will start looking for the receiver in a predefined sequence (middle - left - right).
☞ To deactivate the auto alignment process press the alignment key ② again for 2 sec.
4 The auto alignment process will move the laser unit until it is precisely aligned with the Leica XCR Catch receiver.
5 When the receiver detects the exact position it will beep for 2 sec. and will display the lighted green LED ④ and the middle position.
6 The Leica XCR Catch makes the laser follow the movements of the Leica XCR Catch and will continuously keep monitoring and readjusting the alignment after the middle position has been found. To stop this continuous process press the alignment key ② or the On/Off button.
☞ The receiver will automatically deactivate the auto alignment in case no laser signal is found or in case the signal is permanently lost after more than 45 sec. The receiver will display all 5 LEDs blinking and will sound 3 short beeps. To reinitiate the receiver press any key.

Leica RVL100 and XCR Catch

	RVL100		XCR Catch	
Reception range	up to 80 m	265 ft	up to 100 m	328 ft
Smart Targeting range*	-	-	up to 50 m	160 ft
Sensitivity (switchable)	±1 mm/±3 mm	±0,04/±0,12 inch	±1 mm/±3 mm/ ±5 mm	±0,04/±0.12/ ±0,2 inch
Length of reception window	42 mm	1,65 inch	86 mm	3,4 inch
Protection	IP54		IP65	
Operation temperature	-10 - +50°C	14°F - +122°F	-10 - +50°C	14°F - +122°F
Storage temperature	-25 - +70°C	-13°F - +158°F	-25 - +70°C	-13°F - +158°F
Battery type	1x 6LR61, 9V		3x 1,5V AA	
Dimensions	147.5 x 75.5 x 29.5 mm	5.8 x 2.9 x 1.2 inch	190.5 x 75.5 x 29.5 mm	7.5 x 3.0 x 1.2 inch
Weight with batteries	260 g	9.1 oz	310 g	10.8 oz

* Range for Smart Targeting can be reduced when working outdoors or close to metal structures

NiMH battery pack (part no. 784966)

Input voltage	3.3 V
Input current	2 A
Charge time	8 h

NiMH charger/adapter (part no. 784967)

Input voltage	100-240 V AC 50-60 Hz
Output voltage	3.3 V
Output current	2 A