

# LC-190 / LC-190P

Digital chart system

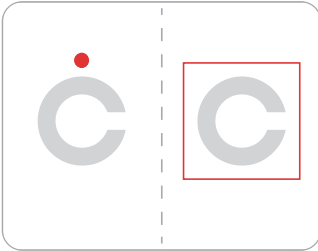


**MAGNON**

**BIRMINGHAM**  
**OPTICAL**  
THE OPTICAL COMPANY

## Distinguished features

### Pointing function



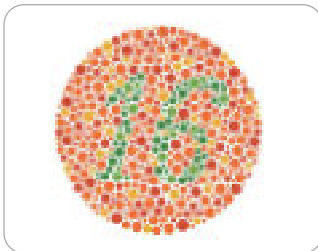
Opto-type of 19-inch polarized chart is selectable in circle type or rectangle type.

### Mirror function



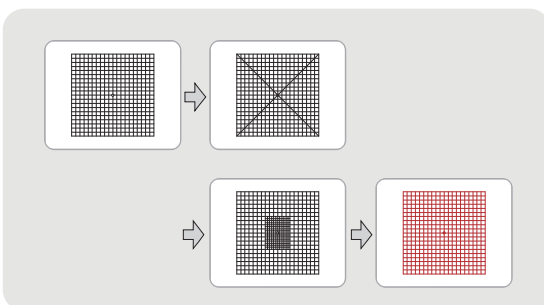
Magnon digital chart system can set the distance (shorter than 1.5m) by using a mirror for a specific visual acuity checking environment and 'On' or 'Off' are available for setting.

### Color Blindness test (For LC-190P)



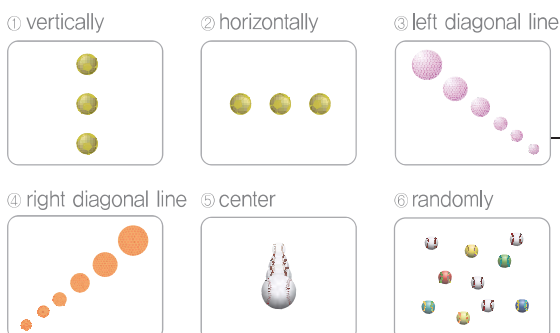
Magnon digital chart system supports 10 kind of color blindness charts.

### Amsler Grid test (For LC-190P)



Magnon digital chart system can diagnose Macular Degeneration by using 4 kinds of Amsler Grid chart.

### Eye Movement function (For LC-190P)



6 kinds of eye movement test charts can be shown during Side Mode.(3 steps of speed adjustable)

### R/G 3D dimensional test (For LC-190P)



Magnon digital chart system supports Color weakness test by built-in screens.

### Symptom and Prescription screens



Magnon digital chart system supports various eye symptoms and those prescriptions by pushing remote button.

### Animation function

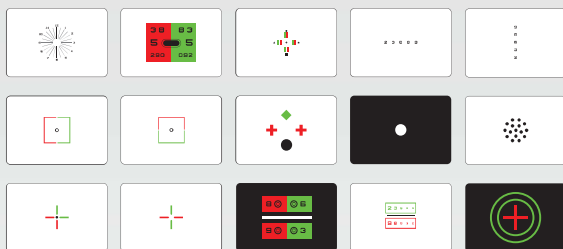


Animation screens for making a child concentration during test.

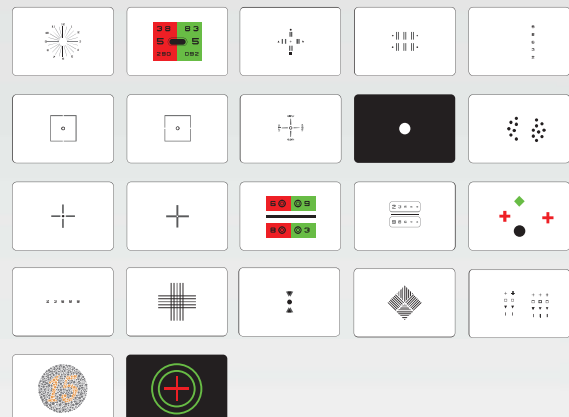
## Special Charts & Various precise examination

Magnon digital chart system helps various and precise examination including Binocular Balance, Aniseikonia, Stereopsis, Binocular fusion, Suppression, Strabismus, Phoria, Color Blindness and Amsler grid test with more than 100 various charts.

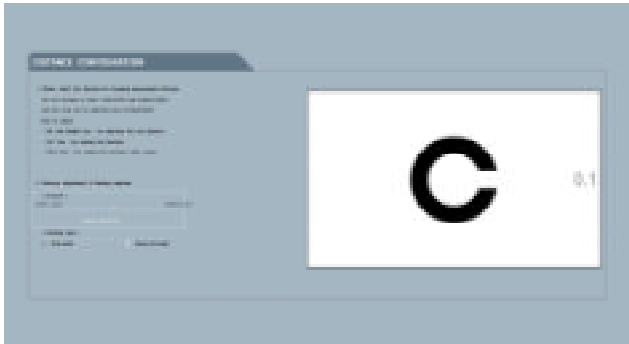
### LC-190 (Non Pola)



### LC-190P (Pola)



## User friendly function for test distance adjustment



Viewing distance can be adjusted, in accordance with the space of test room.

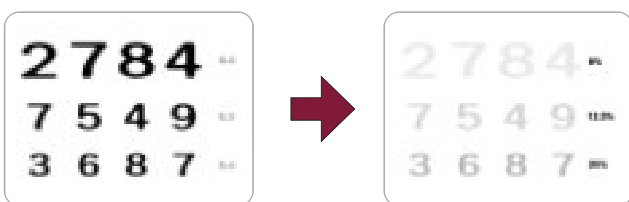
Viewing distance is selectable by 0.05m step within 1.5m(Min) ~ 7m (Max).

### Black / White Reverse



Black / White reverse function helps Cataract and Lasik patients recognize charts easily.

### Contrast Sensitivity adjustment



Magnon digital chart system helps examiner the test with Cataract patients using contrast sensitivity adjustment. (10 adjustable steps)

### R/G Filter adjustment function



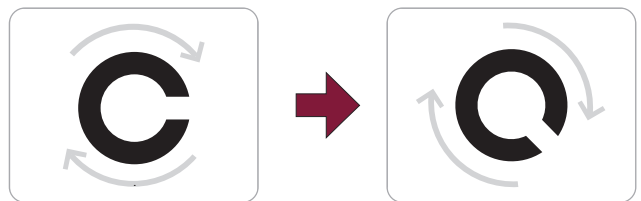
Magnon digital chart system provides 32 steps of R/G filter density that can be used in accordance with test circumstances. All of R/G color charts can be reversed.

### ETDRS adjustment function



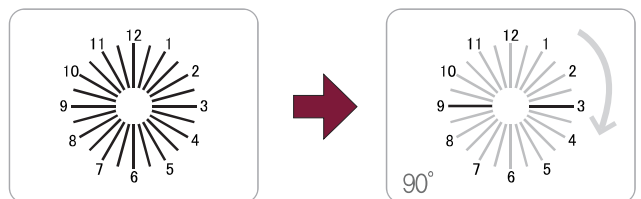
Position of opto-types of ETDRS-1 and ETDRS-2 can be changed by pushing a button on remote control.

### RANDOM function



Magnon digital chart system provides various charts with different order opto-types with Numbers, Alphabetic letters, Landolts, Snellen opto-types in order to avoid memorizing the order of opto-types by patients.

### Astigmatic axis adjustment function



Magnon digital chart system provides an angle of 90 degrees for Astigmatism test.

# LC-190 / LC-190P Chart Types

	LC-190				LC-190P			
	Sample	Type A	Type B	Type C	Sample	Type A	Type B	Type C
Letter		0.05 to 2.0	400 to 10	120 to 3		0.05 to 2.0	400 to 10	120 to 3
Number		0.05 to 2.0	400 to 10	120 to 3		0.05 to 2.0	400 to 10	120 to 3
Snellen E		0.05 to 2.0	400 to 10	120 to 3		0.05 to 2.0	400 to 10	120 to 3
Landolt C	—	—	—	—		0.05 to 2.0	400 to 10	120 to 3
Children 1		0.1 to 1.0	200 to 20	60 to 6		0.1 to 1.0	200 to 20	60 to 6
Children 2		0.1 to 1.0	200 to 20	60 to 6	—	—	—	—
ETDRS		0.32 to 2.0	63 to 10	19 to 3		0.32 to 2.0	63 to 10	19 to 3
Others		Astigmatism clock dial Red-green Vertical coincidence Horizontal coincidence Phoria with fixation point Phoria Minute Stereo Fixation point Duochrome balance Binocular balance Horizontal Phoria Vertical Phoria Dots Worth four dot Schober				Astigmatism clock dial Red-green Vertical coincidence Horizontal coincidence Phoria with fixation point Phoria Minute Stereo Three-Red Depth Perception Cyclophoria Fixation point Duochrome balance Binocular balance Horizontal Phoria Vertical Phoria Dots Cross grid Worth four dot Sreero triangle Sreero four lines Astigmatism diamond Schober		



LC-190 Remote Control



LC-190P Remote Control

## SPECIFICATIONS

<b>LCD Type</b>	19 inch (SXGA) TFT LCD
<b>Resolution</b>	1280 x 1024 pixels
<b>Chart Window Size</b>	375 (W) x 300 (H) mm
<b>Brightness</b>	80 ~ 250 cd / m (10 Levels variable)
<b>Chart</b>	LC-190 Chart A, B, C LC-190P Chart A, B, C
<b>View Distance</b>	1.5m (4.9 feet) ~ 7.2m (23.6 feet) (0.05m / 2" step adjustment)
<b>Memory Card</b>	MSATA (8GB)
<b>Power Source</b>	CD + 12V 5A (Power Adaptor) Model : BPM060S12FXX
<b>Power Consumption</b>	Less than 60VA
<b>Communication</b>	Wire : RS 232 Communication Wireless : IR Communication (LC-190 : 19 inch Non Polarized Digital Chart / LC-190P : 19 inch Polarized Digital Chart)
<b>Dimension / Weight</b>	431 (W) x 355 (H) x 66 (D) mm / 4.5 Kg
<b>Dimension / Weight (Remote Control)</b>	LC-190 64 (W) x 192 (H) x 18 (D) mm / 160 g LC-190P 69 (W) x 234 (H) x 25 (D) mm / 200 g
<b>Standard Accessories</b>	Remote Control, Power Adaptor, Power Cable, Wall Mounting Bracket, User Manual
<b>Optional Accessories</b>	Floor Stand, Red / Green Glasses, Desk-top Stand, Pola Glasses, IR Sender, 10m Communication Cable

\*Specifications and design are subject to change for improvement without notice.

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