

## Notes

### Q24 camera models

- The Q24 camera models can be ordered with L11 or L22 lens.

### D24 camera models

- The lenses in D24 camera models can be replaced on site. The lenses are locked into position using retaining rings. The L22 lens in the IT models is set at factory and the quality is also inspected so that generally no further focusing is required on site.
- All lenses (except L11) can be used in the D24 camera models.

### M24 camera models

- All lenses (except L11) in M24 camera models can be replaced on site. The lenses are locked into position using retaining rings. The L22 lens in the IT models is set at the factory and the quality is also inspected so that generally no further focusing is required on site.

### M12 camera models

- The lenses in the M12 camera models are set and locked into position at the factory (not the L135), meaning that they are adjusted to their optimum focus for the lifetime of the cameras. This provides the advantage that the camera is more robust, particularly in regard to vibrations and shocks (resistance to wind, pole movement).
- Subsequent replacement of the lens (L43/L135, by MOBOTIX costs **net ( for both lenses)**. These prices include the lens and the cost of replacement.

### D12 camera models

- All lenses (except L11) in D12 camera models can be replaced on site. The lenses are locked into position using retaining rings.

### L11 Hemispheric Panorama lens (day) :

180°-Hemispheric (180° x 160°); f= 1,8 mm (equiv. to approx. 11 mm on 35mm systems); in 10 m: approx. infinite x 110 m

### L22 Super Wide Angle lens (day/night)

90° Super Wide angle (90° x 67°); f= 4 mm (equiv. to approx. 22mm on 35mm systems); in 10 m: approx. 20.0 m x 13.3 m ==> very little distortion and practically no shading; excellent resolution, also in zoom operation

### L32 Wide Angle lens (day/night):

60° Wide Angle (60° x 45°); f = 6 mm (equiv. to approx. 32mm on 35mm systems), in 10 m: approx. 11,5 m x 8,2 m

### L43 Wide Angle lens (day/night):

45° Wide Angle (45° x 35°); f = 8 mm (equiv. to approx. 43mm on 35mm systems), in 10 m: approx. 8,2 m x 6,1 m

### L65 Tele lens (day/night):

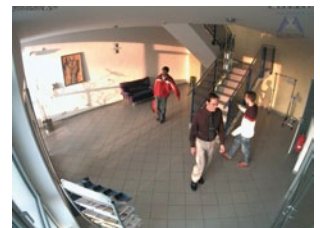
31° Wide Angle (31° x 23°); f = 12 mm (equiv. to approx. 65mm on 35mm systems), in 10 m: approx. 5,5 m x 4,0 m

### L135 Tele lens (day/night):

15° Tele (15° x 11°); f = 25 mm (equiv. to approx. 135mm on 35mm systems); in 10 m: approx. 2,6 m x 1,9 m










L22-Super Wide Angle 90° horizontal image angle



L11-Hemispheric 360° horizontal image angle

Article Number	Details	MSRP USD
<b>MX-OPT14-L22</b>	L22 Super Wide Angle 22 mm (90°H x 67°V; in 10m: 20,0m x 13,3 m)	<b>98</b>
<b>MX-OPT14-L32</b>	L32 Wide Angle 32 mm (60°H x 45°V, in 10m: 11,5m x 8,2m)	<b>98</b>
<b>MX-OPT14-L43</b>	L43 Wide Angle 43 mm (45°H x 34°V, in 10m: 8,2m x 6,1m)	<b>98</b>
<b>MX-OPT14-L65</b>	L65 Tele 65 mm (31°H x 23°V, in 10m: 5,5m x 4,0m)	<b>98</b>
<b>MX-OPT14-L135</b>	L135 Tele 135 mm (15°H x 11°V, in 10m: 2,6m x 1,9m)	<b>98</b>

**Note:** The IR filters for the color sensors are **NOT** installed in the lens, but in the lens mount of the camera instead.

Lens Table							
Article Number	L11	L22	L32	L43	L65	L135	CS-Vario
Original image							
35mm equivalent	11 mm	22 mm	32 mm	43 mm	65 mm	135 mm	24 - 54 mm
Focal length	1.8 mm	4 mm	6 mm	8 mm	12 mm	25 mm	4.5 - 10 mm
Aperture (F)	2.0	2.0	2.0	2.0	2.0	2.5	1.6 - 2.3
Image angle horizontally	180°	90°	60°	45°	31°	15°	73° - 37°
Image angle vertically	160°	67°	45°	34°	23°	11°	58° - 28°
<b>Distance 1 m (3')</b>	<b>m</b>	<b>m</b>	<b>m</b>	<b>m</b>	<b>m</b>	<b>m</b>	<b>m</b>
• Image width	Infinite	2.0	1.1	0.8	0.5	0.3	1.5 - 0.7
• Image height	11	1.3	0.8	0.6	0.4	0.2	1.1 - 0.5
<b>Distance 5 m (15')</b>	<b>m</b>	<b>m</b>	<b>m</b>	<b>m</b>	<b>m</b>	<b>m</b>	<b>m</b>
• Image width	Infinite	10.0	5.7	4.1	2.7	1.3	7.4 - 3.3
• Image height	55	<b>6.6</b>	<b>4.1</b>	<b>3.0</b>	<b>2.0</b>	<b>1.0</b>	5.5 - 2.5
<b>Distance 10 m (30')</b>	<b>m</b>	<b>m</b>	<b>m</b>	<b>m</b>	<b>m</b>	<b>m</b>	<b>m</b>
• Image width	Infinite	20.0	11.5	8.2	5.5	2.6	14.8 - 6.7
• Image height	110	13.3	8.2	6.1	4.0	1.9	11.1 - 5
<b>Distance 20 m (60')</b>	<b>m</b>	<b>m</b>	<b>m</b>	<b>m</b>	<b>m</b>	<b>m</b>	<b>m</b>
• Image width	Infinite	40.0	23.0	16.4	11.0	5.2	29.6 - 13.3
• Image height	220	26.6	16.4	12.2	8.0	3.8	22.2 - 10
<b>Distance 50 m (150')</b>	<b>m</b>	<b>m</b>	<b>m</b>	<b>m</b>	<b>m</b>	<b>m</b>	<b>m</b>
• Image width	Infinite	100.0	57.5	41.0	27.5	13.0	74 - 33.3
• Image height	550	66.0	41.0	30.5	20.0	9.5	55 - 25

Available Lenses	L11	L11	L22	L22	L32	L32	L43	L43	L65	L65	L135	L135	CSVario	CSVario
	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night
<b>D24Mi-Basic-</b>	-	-	<b>D22</b>	-	<b>D32</b>	-	<b>D43</b>	-	<b>D65</b>	-	<b>D135</b>	-	-	-
<b>D24M-IT-</b>	-	-	<b>D22</b>	-	<b>D32</b>	-	<b>D43</b>	-	<b>D65</b>	-	<b>D135</b>	-	-	-
<b>D24M-IT-Night-</b>	-	-	-	<b>N22</b>	-	<b>N32</b>	-	<b>N43</b>	-	<b>N65</b>	-	<b>N135</b>	-	-
<b>D24M-Sec-</b>	-	-	<b>D22</b>	-	<b>D32</b>	-	<b>D43</b>	-	<b>D65</b>	-	<b>D135</b>	-	-	-
<b>D24M-Sec-Night-</b>	-	-	-	<b>N22</b>	-	<b>N32</b>	-	<b>N43</b>	-	<b>N65</b>	-	<b>N135</b>	-	-
<b>M24M-IT-</b>	-	-	<b>D22</b>	-	<b>D32</b>	-	<b>D43</b>	-	<b>D65</b>	-	<b>D135</b>	-	-	-
<b>M24M-IT-Night-</b>	-	-	-	<b>N22</b>	-	<b>N32</b>	-	<b>N43</b>	-	<b>N65</b>	-	<b>N135</b>	-	-
<b>M24M-Sec-</b>	<b>D11</b>	-	<b>D22</b>	-	<b>D32</b>	-	<b>D43</b>	-	<b>D65</b>	-	<b>D135</b>	-	<b>CSVario</b>	-
<b>M24M-Sec-Night-</b>	-	<b>N11</b>	-	<b>N22</b>	-	<b>N32</b>	-	<b>N43</b>	-	<b>N65</b>	-	<b>N135</b>	-	<b>CSVario</b>
<b>M12M-Web-</b>	-	-	-	-	-	-	<b>D43</b>	-	-	-	-	-	-	-
<b>M12D-IT-DNight-</b>	-	-	-	-	-	-	<b>D43</b>	<b>N43</b>	-	-	<b>D135</b>	<b>N135</b>	-	-
<b>M12D-Sec-</b>	-	-	<b>D22</b>	-	-	-	<b>D43</b>	-	-	-	<b>D135</b>	-	-	-
<b>M12D-Sec-DNight-</b>	-	-	<b>D22</b>	<b>N22</b>	-	-	<b>D43</b>	<b>N43</b>	-	-	<b>D135</b>	<b>N135</b>	-	-
<b>D12Di-IT/D12Di-Sec-</b>	-	-	<b>D22</b>	<b>N22</b>	<b>D32</b>	<b>N32</b>	<b>D43</b>	<b>N43</b>	<b>D65</b>	<b>N65</b>	<b>D135</b>	<b>N135</b>	-	-
<b>Q24M-Basic-</b>	<b>D11</b>	-	<b>D22</b>	-	-	-	-	-	-	-	-	-	-	-
<b>Q24M-Sec-</b>	<b>D11</b>	-	<b>D22</b>	-	-	-	-	-	-	-	-	-	-	-
<b>Q24M-Sec-Night-</b>	-	<b>N11</b>	-	-	-	-	-	-	-	-	-	-	-	-