

## 1/3" Manual DC vario lenses with CS mount

Art. No. 11728	Model name VC-ZDC28-12CS	Version 2,8 - 12 mm, F1,4-360 DC-iris
Art. No. 20110	Model name VC-ZDC35-8CS	Version 3,5 - 8,0 mm, F1,4-360 DC-iris
Art. No. 11050	Model name VC-ZDC35-8CS/DN	Version 3,5 - 8,0 mm, F1,4-360 DC-day/night
Art. No. 11007	Model name VC-ZDC05-50CS	Version 5,0 - 50 mm, F1,7-360 DC-iris



**VDE CE EMC**

The vario lenses offer together with the possible adjustments at the camera side perfect operation from twilight to bright sunshine even under difficult light conditions.

Especially in conjunction with the auto shutter function as well as backlight compensation and the super wide dynamic range of the camera the lenses provide most perfect cristal sharp picture even at moving areas in the scenery.

Refer to the list below of the advantages to operate a camera with auto shutter and DC iris lens.

### Advantages of using DC lenses in conjunction with auto shutter function of connected camera:

1. Sharp picture even at fast moving objects
2. Highest possible modulation depth by automatic closing of iris under bright light conditions
3. Wide range of individual adjustment at sight to the specific light conditions by mixing DC-function with backlight compensation and auto shutter

### Technical datas

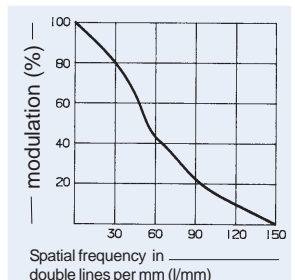
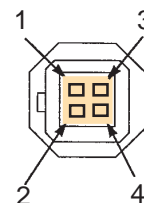
Art. No.	11728	20110	11050	11007
Dimensions (Ø x L)	40 x 55mm	38 x 45mm	38 x 45mm	44 x 61mm
Weight	50g	45g	55g	120g

### Mutal technical datas

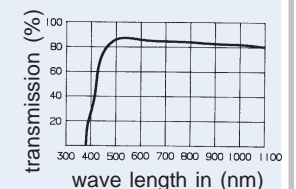
Designed for b/w and colour cameras	
image format	4,8 x 3,6 mm (1/3")
modulation deepth	>90%
spectral wave length	400 - 1200 nm
aperture	98%
sharpness on edge	above 80%
brightness on edge	above 60%
focal range	manual 0,2m - ∞
environmental temperature	-10° - +50°C
lens mount	CS-Mount
lens coating	yes (IR-corrected)
back focal length	12,5 mm
electrical safety	60065 + 60950
MTBF	80.000 hours
EMC	EN 50081+82, CE-Certification
voltage	8-16V DC
currency	35 mA
reaction speed	about 2 sec.
connections	4pin plug
input signal	DC-voltage
adjustments	at camera
coil	232 Ohm
control	730 Ohm

### Conections to camera

DC	1	Control -
	2	Control +
	3	Drive +
	4	Drive -



The modulation transmission function (MTF) of the manual lenses offers a modulation deepth of 80% at 60 TVL/mm or 40% at 120TVL/mm.



The high spectral transmission by low dispersion of the used glass elements are the basic reason for the IR corrected performance of these lenses.

The range of the vario lenses provides a perfect viewing by the camera for areas as close as 1m and as far as 100m.

variable	variable	Distance between camera and subject									
		1m	2m	3m	4m	5m	10m	30m	50m	80m	100m
		wideness of picture view according to the lens angle (m)									
range	3,5mm	68°	1,2	2,4	3,6	4,8	6,0	12	36	60	96
	4,5mm	56°	1	2	3	4	5	10	30	50	80
	5,0mm	50°	0,85	1,7	2,5	3,4	4,2	8,5	25	42	68
	8,0mm	34°	0,55	1,1	1,7	2,2	2,8	5,5	17	28	44
	10mm	28°	0,4	0,8	1,2	1,6	2	4	12	20	32
	15mm	18°	0,25	0,5	0,75	1	1,25	2,5	7,5	12,5	25
	50mm	5°	0,1	0,2	0,3	0,4	0,5	1	3	5	8

2,5 m is the maximum wideness in order to recognize a strange face

4,5 m is the maximum wideness in order to recognize a car plate

25 m is the maximum wideness in order to recognize subjects at least 1m wide