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VS-TCH2-65-LQL1



Lens module specifications

Focus tunable lens (Optotune)	Model	EL-16-40-		
	Focal power	-2	+3	dpt
Magnification		2.03	1.91	Χ
F/#		13.9	13.0	(Fixed)
Maximum sensor format		2,	inch	
Image circle (Φ)		1	mm	
FoV (at max sensor format) H x V		3.6 x 4.2	3.8 x 4.5	mm (at 2/3")
Working distance		66.1	63.5	mm
Optical leverage		0.52	0.52	mm/dpt
Optical Distortion		0.04	0.02	%
Wavelength range		Visi	nm	
Lifecycles (10-90% sinusoidal)		>1′000′	cycles	
Mount		(
Dimension (Φ x L)		30.0	mm	

Focus tunable lens specifications EL-16-40-TC-VIS-5D

•		
Focal power range (@30°C) ³	-2 to +3	dpt
Wavefront error (at 525 nm & 0 mA) Optical axis vertical / horizontal	<0.25/<0.5	λRMS
Operating temperature	-20 to +65	°C
Storage temperature	-40 to +85	°C
Temperature sensor & memory	STTS2004	(STMicroelectronics)

Electrical specifications

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Control current (typical)	-250 to +250	mA
Absolute max. control current	-500 to 500	mA
Power consumption	0 to 0.7 (nominal) 0 to 2.8 (absolute max.)	W
Motor coil resistance @ 30°C	12	Ω
Absolute maximum voltage (coil)	10	V
Absolute maximum voltage (temp. sensor)	4.3	V



11' (UD40C 3D CD)	E allan	6	2
Hirose connector (HR10G-7R-6P)	Function	Sensor pins	4\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
Pin 1	Control current +	-	2
Pin 2	Control current -	F	5
Pin 3	Ground	1-4	
Pin 4	Power (3.3V)	8	
Pin 5	I ² C SCL	6	
Pin 6	I ² C SDA	5	

Controller

The liquid lens is controlled with electrical current and must be operated by a suitable lens controller. Hirose cables and liquid lens controllers are sold separately. The following controllers are considered fully compatible with VS-TCH2-65-LQL1:

- Optotune embedded controller ECC-1C
- Optotune lens driver EL-E-4i
- Optotune industrial controller ICC-4C-500

Additional selection of controllers is available at https://www.opto-tune.com/controllers

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Mechanical drawings

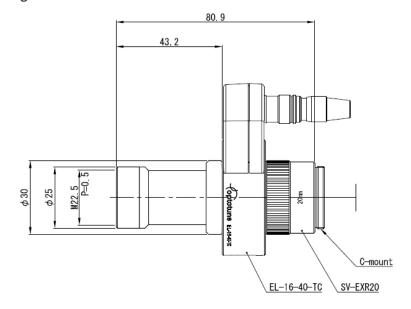


Figure 1: Mechanical drawing of the VS-TCH2-65-LQL1

For more information on optical, mechanical and electrical parameters, please contact sales@optotune.com